

The University of Sydney



Faculty of Health Sciences

Handbook

1996

The University of Sydney

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

The information contained in this Handbook was current as at October 1995. Its contents are as accurate and detailed as possible at that time.

Publications

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

The University of Sydney Annual Report

The University of Sydney Research Report

General Inquiries

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

Course Information

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

Address: The University of Sydney
Cumberland Campus
East Street
LIDCOMBE N.S.W. 2141, AUSTRALIA

Postal Address: The University of Sydney
Cumberland Campus
Post Office Box 170
LIDCOMBE N.S.W. 2141, AUSTRALIA

ISSN: 1034-0971

Designed and typeset by Faculty of Health Sciences
Faculty Office

Printed in Australia by
Printing Headquarters, Broadway.

Table of Contents

Introduction	i	Master of Behavioural Health Science, Graduate Diploma Behavioural Health Science, Graduate Certificate Behavioural Health Science (by Coursework).....	5-12
Message from the Dean and College Principal	ii	Master of Child and Adolescent Health, Graduate Diploma in Child and Adolescent Health, Graduate Certificate of Child and Adolescent Health (by Coursework).....	5-16
1996 Academic Year and Important Dates	iii	6 Department of Biomedical Sciences	6-1
1 Academic and Associated Staff	1-1	Summary of Biomedical Sciences Subjects.....	6-1
Faculty of Health Sciences.....	1-1	Graduate Diploma in Exercise and Sport Sciences.....	6-6
Schools and Departments.....	1-1	Master of Exercise and Sport Sciences . by Coursework.....	6-10
Centres.....	1-4	Master of Applied Science (Exercise and Sport Sciences) by Research.....	6-12
Administration.....	1-4	Master of Applied Science (Human Biomedical Sciences) by Research.....	6-14
2 Faculty of Health Sciences	2-1	7 School of Communication Disorders	7-1
History.....	2-1	Bachelor of Applied Science (Speech Pathology).....	7-4
Objectives.....	2-1	Honours Program.....	7-9
Academic Governance.....	2-1	Bachelor of Applied Science (Speech Pathology) Modified Course.....	7-9
Constitution of the Faculty of Health Sciences.....	2-2	Master of Applied Science (Communication Sciences and Disorders).....	7-10
Structure.....	2-2	Master of Communication Disorders.....	7-11
Centres.....	2-2	Clinical Education.....	7-12
The Cumberland Health and Research Centre.....	2-2	1996 Clinical Practice Dates.....	7-12
Rehabilitation Research Centre.....	2-2	8 School of Community Health	8-1
WHO Regional Collaborating Centre for Rehabilitation.....	2-3	Diploma of Health Science (Aboriginal Health and Community Development).....	8-2
Inter-Institutional Agreements.....	2-3	Bachelor of Health Science (Aboriginal Health and Community Development).....	8-6
3 Undergraduate Courses	3-1	Honours Program.....	8-8
General Admission Requirements.....	3-1	Bachelor of Health Science (Rehabilitation Counselling).....	8-11
Other Admissions Schemes.....	3-2	Graduate Certificate in Health Science Education.....	8-15
Honours Programs.....	3-4	Graduate Diploma in Health Science Education.....	8-17
Awards and Prizes.....	3-5	Master of Health Science Education by Coursework..	8-20
Financial Assistance.....	3-6	Master of Health Science (Education) by Research.....	8-22
Explanation of Subject Numbering System.....	3-6	Graduate Diploma in Community Health.....	8-24
Summary of Undergraduate Diplomas and Degrees... ..	3-7	Master of Community Health.....	8-26
4 Graduate Courses	4-1	Master of Health Science (Community Health) by Research.....	8-27
Doctor of Philosophy.....	4-1	Graduate Diploma in Gerontology.....	8-29
Probationary acceptance.....	4-1	Master of Gerontology.....	8-31
Faculty of candidature.....	4-1	Master of Health Science (Gerontology) by Research.....	8-32
Control of candidature.....	4-1	Graduate Diploma in Rehabilitation Counselling.....	8-34
Other studies during the candidature.....	4-1	Master of Rehabilitation Counselling (by Coursework).....	8-35
Earliest date for submission.....	4-1	Master of Health Science (Rehabilitation Counselling).....	8-37
Latest date for submission.....	4-1	Aboriginal Health Science Support Program.....	8-39
Degree of Master by Research.....	4-1	Aboriginal Health Science Preparatory Program.....	8-41
Applications.....	4-1	Field Experience/Professional Practice.....	8-42
Registration.....	4-2	1996 Field Placement Dates.....	8-43
Course Requirements.....	4-2	1996 Block Attendance Dates.....	8-43
Research Thesis.....	4-3		
Examination of Thesis.....	4-4		
Degree of Master by Coursework.....	4-4		
Award of Graduate Diploma.....	4-4		
Award of Graduate Certificate.....	4-5		
Awards, Prizes and Scholarships.....	4-5		
The Butterworth-Heinemann Treatise Prize.....	4-5		
The Butterworth-Heinemann Thesis Prize.....	4-5		
The Private Speech Pathologists' Association of New South Wales Master's Thesis Prize.....	4-5		
Scholarships.....	4-5		
Explanation of Subject Numbering System.....	4-5		
Subject Unit Values.....	4-5		
5 Department of Behavioural Sciences	5-1		
Summary of Behavioural Sciences Subjects.....	5-1		
Master of Applied Science (Behavioural Health Science) by Research.....	5-5		

9 School of Health Information Management 9-1

Bachelor of Applied Science (Health Information Management).....	9-3
Honours Program.....	9-7
Graduate Certificate in Casemix.....	9-8
Graduate Certificate in Clinical Data Management.....	9-9
Graduate Diploma of Applied Science (Health Information Management).....	9-10
Master of Applied Science (Health Information Management).....	9-13
Professional Experience.....	9-14
1996 Clinical Practice Dates.....	9-14

10 School of Medical Radiation Technology ...9-1

Bachelor of Applied Sciences (Medical Radiation Technology).....	10-4
Honours Program.....	10-7
Clinical Education Program (Degree).....	10-9
1995 Clinical Education Dates.....	10-10
Bachelor of Applied Sciences (Medical Radiation Technology) Conversion Course.....	10-10
Graduate Diploma of Applied Science (Medical Ultrasonography).....	10-11
Graduate Certificate of Applied Science (Medical Ultrasonography).....	10-13
Master of Applied Science (Medical Radiation Technology).....	10-15

11 School of Occupational Therapy.....11-1

Bachelor of Applied Science (Diversional Therapy).....	11-2
Bachelor of Applied Science (Occupational Therapy).....	11-8
Honours Program.....	11-13
Graduate Certificate of Applied Science (Occupational Therapy).....	11-13
Speciality Track - Developmental Disabilities and Paediatrics.....	11-14
Speciality Track - Environmental Modification and Technology.....	11-16
Speciality Track - Mental Health.....	11-18
Speciality Track - Neurology.....	11-19
Speciality Track - Occupational Rehabilitation	11-21
Master of Applied Science (Occupational Therapy).....	11-24
Foundations of Clinical Practice.....	11-25
Clinical Specialty Topics.....	11-26
Fieldwork.....	11-27

12 School of Orthoptics.....12-1

Bachelor of Applied Science (Orthoptics).....	12-1
Honours Program.....	12-6
Master of Applied Science (Orthoptics).....	12-7
Clinical Education.....	12-8
1996 Clinical Practice Dates.....	12-8

13 School of Physiotherapy.....13-1

Bachelor of Applied Science (Physiotherapy).....	13-3
Honours Program.....	13-9
Graduate Diploma of Applied Science (Manipulative Physiotherapy).....	13-11
Master of Applied Science (Manipulative Physiotherapy).....	13-14
Graduate Diploma of Applied Science (Sports Physiotherapy).....	13-15
Master of Applied Science (Sports Physiotherapy).....	13-18
Graduate Certificate of Applied Science (Physiotherapy).....	13-20

Graduate Diploma of Applied Science (Physiotherapy).....	13-22
Master of Applied Science (Physiotherapy) by Coursework.....	13-29
Master Of Applied Science (Physiotherapy) (By Research).....	13-30
Clinical Education.....	13-32
1996 Clinical Practice Dates.....	13-32

14 Singapore Conversion Courses.....14-1

Off-Shore (Singapore-based).....	14-1
Bachelor of Health Science (Nursing).....	14-2
On-Shore (Sydney-based).....	14-4
Bachelor of Health Science (Medical Radiation Technology).....	14-4
Bachelor of Health Science (Occupational Therapy).....	14-6
Bachelor of Health Science (Physiotherapy).....	14-8

15 Clinical Education

(Fieldwork/Professional Experience).....15-1

School of Communication Disorders.....	15-2
School of Community Health.....	15-3
School of Health Information Management.....	15-6
School of Medical Radiation Technology.....	15-7
School of Orthoptics.....	15-8
School of Occupational Therapy.....	15-9
School of Physiotherapy.....	15-12

16 Administrative Information.....16-1

Course Enquiries and Applications.....	16-1
Registration and Enrolment.....	16-1
Higher Education Contribution Scheme (HECS).....	16-4
Fees and Charges.....	16-4
Credit Transfer.....	16-5
Discontinuation of Studies, Variation of Course and Leave of Absence.....	16-8
Examinations and Assessments.....	16-9
Progression and Exclusion.....	16-13
Other Administrative Information.....	16-13

17 Facilities and Services.....17-1

Bookshop.....	17-1
Childcare.....	17-1
College Library.....	17-1
Counselling Service.....	17-1
Credit Union Facilities.....	17-1
Cumberland Student Guild.....	17-1
English Language Tuition.....	17-2
Equal Employment Opportunity and Affirmative Action.....	17-2
Graduates Association and Alumni.....	17-3
International Student Advisory Service (formerly known as ACOS).....	17-3
Language and Learning Unit (LLU).....	17-3
Other Facilities & Services.....	17-3
Peer Tutoring Service.....	17-4
Services for Students with Disabilities.....	17-4
Student Accommodation.....	17-4
Yannadah.....	17-4
Student Loans.....	17-4
Student Welfare Services (Cumberland).....	17-4
Travel Concessions.....	17-4

18 Senate Resolutions.....18-1

Appendix 1.....A-1

Information Technology Electives.....	A-1
Electives.....	A-1
Research Electives.....	A-9

Index.....1-1

Introduction

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

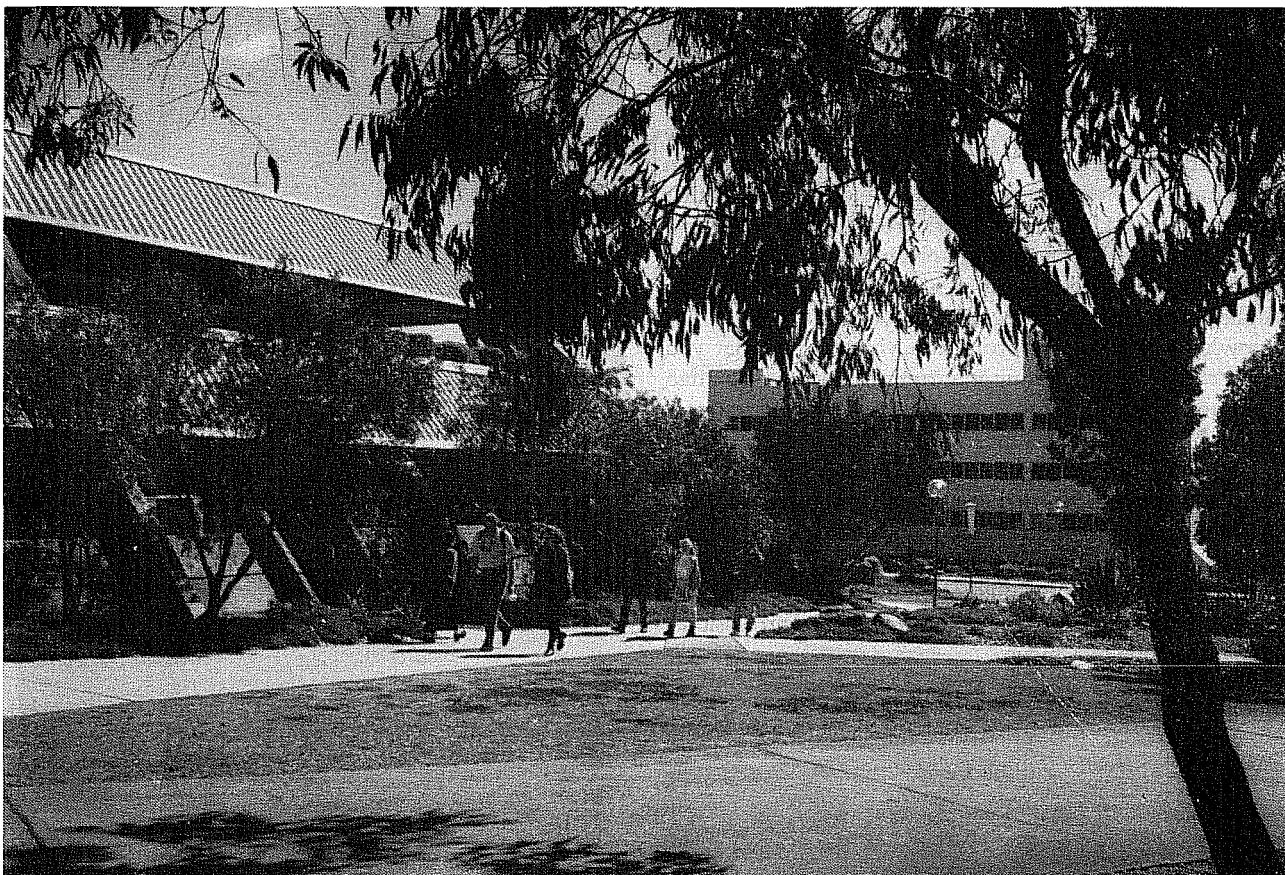
The Handbook was prepared in advance of the 1996 academic year to maximise its usefulness as a reference to students, to staff, and to the many associates of the Faculty, particularly those who contribute to the clinical education of students.

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

The fields encompassed by the Faculty are:

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

For further details of Nursing programs, prospective students are advised to consult the Faculty of Nursing 1996 Handbook. Telephone enquiries should be directed to the Faculty of Nursing, Cumberland campus (646 6249).



Message from the Dean and College Principal

To all of our students, undergraduate and postgraduate, new and returning, welcome to the 1996 academic year in the Faculty of Health Sciences on the Cumberland Campus of the University of Sydney. I am sure that those of you embarking on your first semester of study will agree that we are fortunate to have such a pleasant campus as the backdrop to our academic endeavours.

For our new undergraduate students this is a time of transition when you will be faced with the challenges imposed by the introductory phase of tertiary education; by orientation to your chosen profession, by academic deadlines, and by new freedoms and constraints as an individual. While many students are able to make this adjustment with comparative ease, for some it will take time to adjust to the new demands placed upon you. I would encourage you to take advantage of the wealth of support which is available to all beginning and established students in this faculty.

The staff of this faculty and college are committed to facilitating your progress through the maze of academic and organisational requirements of studying in the tertiary education environment. Schools and departments have well-defined communication channels for students who are concerned about aspects of their academic activities and you should acquaint yourself with the many services available through the Student Welfare Division, the Students' Guild and additionally, for Aboriginal and Torres Strait Islander students, the dedicated support services provided by the staff of Yoorang Goreng, our Centre for Indigenous Health Studies.

A particular welcome is also extended to our new postgraduate students. You have joined the faculty at an exciting period in its postgraduate development. Whether you are undertaking a coursework program which will lead to greater satisfaction and opportunities in your chosen profession or current place of work or whether you are undertaking a research degree which will contribute to the knowledge base of your profession, you will find that you have chosen a stimulating environment with committed academic staff who are at the forefront of postgraduate developments in the health sciences.

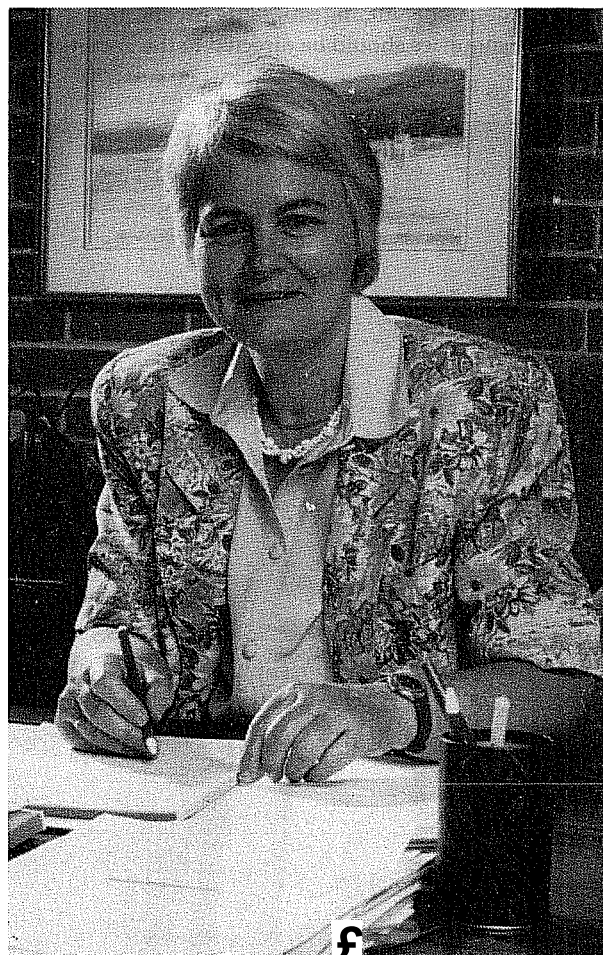
To all of our returning students, I congratulate you on your academic success in the previous year (s) and trust that you will be able to build on the foundations that you have already laid. Your familiarity with the academic process and prior knowledge of our community organisation will help you to focus more fully on the academic and professional goals you hope to achieve.

I hope that you will take time to enjoy some of the social, cultural and sporting opportunities available on this campus, many of which are arranged by the Students' 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.

In conclusion, I send you my best wishes for a happy and successful year in 1996. I hope that you will gain much satisfaction from the professional, academic and personal development that you experience along the way.

Professor Judith Kinnear

Dean and College Principal



1996 Academic Year and Important Dates

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

	1 January	New Year's Day
	26 January	Australia Day
	16 February	Last day to pay compulsory fees
	21 February	Orientation Day 1 (on Broadway campus)
	22 February	Orientation Day 2
	23 February	Orientation Day 3
<i>Semester 1</i>	<i>(14 weeks)</i>	<i>26 February - 7 June</i>
	8 March	Last day for new students to commence enrolment
	15 March	Last day to pay semester 1 HECS
	29 March	Last day to complete enrolment/re-enrolment and to request Variation of Course, Leave of Absence or Discontinuation to apply from Semester 1 Census Date
		Last day to request Discontinuation from Semester 1 subjects without failure
	31 March	Semester 1 Census Date for Ffgher Education Contribution Scheme
	5 April	Good Friday
	6 April	Easter Saturday
	7 April	Easter Sunday
	8 April	Easter Monday
<i>Autumn Recess</i>		<i>9 April -12 April</i>
	25 April	Anzac Day
	26 April	Day by which all students should have received their Confirmation of Enrolment and Notice of HECS Liability for Semester 1
<i>Study Vacation</i>		<i>3June- 7June</i>
	10 June	Queen's Birthday Holiday
<i>Assessment Period</i>		<i>10June- 21 June</i>
<i>Inter-Semester Recess</i>		<i>24 June - 2 August</i>
	29 July	Post/Deferred Assessments commence
<i>Semester 2</i>	<i>(14 weeks)</i>	<i>5 August - 25 November</i>
	23 August	Last day to pay Semester 2 HECS
	30 August	Last day to request Variation of Course, Leave of Absence, or Discontinuation to apply from Semester 2 Census Date
		Last day to request Discontinuation from full-year and/or Semester 2 subjects without failure
	31 August	Semester 2 Census Date for Higher Education Contribution Scheme
	27 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>30 September - 4 October</i>
	7 October	Labour Day Holiday
<i>Study Vacation</i>		<i>11 November - 15 November</i>
<i>Assessment Period</i>		<i>18 November - 29 November</i>
<i>Christmas Recess</i>		<i>2 December - 28 February, 1997</i>
	20 January, 1997	Post/Deferred Assessments commence

1 Academic and Associated Staff

Faculty of Health Sciences

Dean

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

Pro-Dean

Ross G. Menzies, BSc (Hons) PhD *N.S.W.*

Associate Deans

Gary M. Lee, BSc PhD *N.S.W.* MBA *UCQ*
Reginald A. Mitchell, MSc *Macq.* DipAppSc *Climb.* BSc MED
PhD

Mark Onslow, BAppSc MAppSc PhD *Cumb.*

Alison A. Purcell, BAppSc MAppSc *Cumb.*

Secretary to the Dean

Margaret Kennedy

Schools and Departments

Communication Disorders

Head of School

Professor Vicki A. Reed, BS *Northwestern* MA *Denver* EdD
N. Colorado FASHA

Professor

Chris Code, MA *Essex* PhD *Wales* DipCST AFBPsS Psychol

Associate Professor

Pamela J. Davis, LACST PhD *N.S.W.*

Senior Lecturers

Mark Onslow, BAppSc MAppSc PhD *Cumb.*

Jan van Doorn, BSc *AM.* PhD *N.S.W.*

Lecturers

Linda S. Hand, DipT(SpTher) BA *Cant.* DipEd A.K. MA *Iowa*

Jennifer A. Harasty, BAppSc *Cumb.* MAppSc

Kerrie M. Lee, BA *N'cle* *N.S.W.* MA PhD *Macq.*

Lindy L. McAllister, BSpThy *Qld.* MA (Hons) *W. Mich.*

Sharynne McLeod, BAppSc *Cumb.* MAppSc

Alison A. Purcell, BAppSc MAppSc *Cumb.*

Christine Sheard, LACST BAppSc MAppSc *Cumb.*

Community Health

Head of School

Judith L.M. Mair, RN CM DNE FCN LLB *N.S.W.*

Senior Lecturers

Kaye E. Brock, BSc AN. IT. DipNutDiet PhD

Darien L. Chinnery, BA *Add.* PhD *N.S.W.*

Roderick W.J. Rothwell, MA(Psych) MA(Philos) PhD

Cherry L. Russell, BA PhD

Lecturers

Ruth Baker, MA *U.W.S* AssocDipRC GradDip HlthSc
(CommHlth)

Sandra Bentley, MA *Macq.* GradDipRC *Cumb.* BA *Flind.*

Fran Everingham, GradDipEd(Health Stud) S.C.AE. BA
DipEd MHPEd *N.S.W.*

Gary Guzman, BA *Macq.* GradDipRC *Cumb.*

Dana Lear, PhD

Trevor K. Hawkins, MS *S.Ill.* GradDipRC *Cumb.* BA

Freidoon A. Khavarpour, MA PhD *Michigan*
Victoria Neville, BSc MA *N.S.W.* GradDipPhy *Cumb.*
Toni Schofield, DipEd *Melb.* BA

Associate Lecturer

Eugene Devlin, BSc *Ulster* GradDipRC *Cumb.*

Administrative Assistants

Edward J. Sutton, AssDipHlthSc *Cumb.*

Chelvi Singaram

Pauline Fuller

Yoorang Garang

Senior Lecturer

Kathleen Clapham B A(Hons) PhD

Lecturers

Fay Acklin, BA *Macq.* RN CM ICU

Les Bursill, BA LINE MLitt LINE ATM JP

Kate Conyngham, BA DipEd MA MCA *Wollongong*

Angela Dawson, BA (Hons) *Cant.* MA *Land.*

Sally Farrington, BSc GradDipPhy MHPed

Bruno A. Gelonesi, MAMflg. GradDipEdSt *Nepean C.A.E.*

Trish King, BCA *Wollongong*

Ian Hughes, BSocStud MDevStud *Deakin*

Susan Page,

Administrative Assistants

Tracey Case

Sarina Solar

Health Information Management

Head of School

Professor Phyllis J. Watson, AM MSc *N.Y.*

Senior Lecturer

Jennifer Mitchell, BA DipEd *Macq.* Assoc Dip MRA *Cumb.*
MSc *Griffith*

Lecturers

Joanne Callen, BA *N.S.W.* DipEd

Angelika Lange, DiplPsych MA (Inf.Sc.) *FU Berlin*

Melinda Lewis, BAppSc (MRA) *Cumb.* GradDip (HlthScEd)

Tina Magennis, BAppSc (HTM) *Cumb.* MHA *N.S.W.*

Johanna Westbrook, BAppSc (MRA) *Cumb.* GradDip
AppEpid MHA *N.S.W.*

Research Assistant

Jean Mcintosh

Administrative Officer

Elwyn Davis

Administrative Assistants

Jane Alanthwaite

Sheree Crick

Medical Radiation Technology

Head of School

Alastair Davison, PhD *Melb.* BSc (Hons)

Associate Professor

Associate Professor Ronald McCartney, GradDipEd
Hawthorn MSc *Sur* ARMIT (on leave)

Senior Lecturer

Donald McLean, MAppSc *QIT* BSc *UNSW* DipEdGmb.

Lecturers

John Atyeo, BA *UTS* AssDipRadTech *SALT*

Edward Caruana, B AppSc *Cumb.* AssDipMedRad STC FCN
MEd BAppSc

Jill Clark, DipAppSc Grad DipAppSc DMU

Simon Cowell, MEd *UTS* BEd *SCAB* Ass Dip Adult Ed *SCAB*
CertNMT STC

Jenny Cox, BA(Hons) *Macq.* ARMIT

Ingrid Egan, MSc *UTS* BSc *Macq.* Dip Teach *SCAE*
AssDipMedRad STC

Barrie Egerton, MSc *Sal/'BSc* (Hons)

Jane Fonda, CertRad *RMIT* DMU

Peter Kench, DipAppSc *Cumb.* GradCerfflQthScEd BAppSc

Elisabeth Kilburn-Watt, BSc BA *Toronto*

Kim Minns, Bsc *Macq.* DMU

Joanne Murray, CertNMT *STC*

Ann Poulos, BA(Hons) *Macq.* DipEd DipRad

Marianne Rinks, BEd *UTS* CertRad STC

John Robinson, CertRad STC

Natalka Suchowerska, MAppSc *UTS* BSc(Hons)

Associate Lecturers

Edwina Adams

Jocelyn Barnes, DipAppSc GradCertFlthScEd BAppSc

Sandra Blomfield, AssDipAppPhys *RMIT* BAppSc

Jeremy King, AssocDipMedRad STC GradCef tHlthScEd

Administrative Assistants

Genevieve Bridges

Hong Wu

Technical Officers

Eric Guthrie

Frederika Heap

Minh Ngoc Tran

Occupational Therapy

Head of School

Associate Professor Colleen Mullavey-O'Byrne, MA (Hons)
Macq. DipOT ATCL

Senior Lecturers

John R. Balla, BADipEd *UNSW* MA PhD *Macq.*

Christine J. Chapparo, MA *Macq.* DipOT OTR FAOTA

Maureen H. Fitzgerald, RN BIS GMUThD *Hawaii*

Gwynnyth M. Llewellyn, BA *U.N.E.* MEd *U.N.E.* DipContEd
U.N.E. DipOT

Lecturers

Ruth O. Beltran, BSOT MA *UP.* OTRP

Catherine E. Bridge, BAppSc *Cumb.* MCogSc *N.S.W.*

Philip W. Chan, MAppSc *Curtin* DipOT TDipCOT *Brit.* RN
AIMM

Michelle Donnelly, BAppSc *Cumb.* MA *Macq.*

Jane E. Gamble, BAppSc (OccTher) *Lincoln* MHPEd *N.S.W.*

Susan D. Griffin, BAppSc *Cumb.* MA (Hons) *N.S.W.*
GradDipAppBehSc *Cumb.*

Anne M. Hillman, BAppSc (OT) *W.A.I.T.*

Eveline J. Innes, BAppSc (OT) *W.A.I.T.* MHPEd *N.S.W.*

Gabrielle A. Koop, BA MA *Macq.* Dip Teach.

Judy L. Ranka, BSc (OT) *W.Mich.* MA *Macq.* OTR

Carol M. Skropeta, BA *Macq.*

Ruth Sugden, BOccThy *Qld.* SROT (*UK*) AIGA

Horace Ting, BAppSc *Cumb.* GradDip (OccHealth&Safety)
Woll. MBA (Dist) WarW

Robyn L. Twible, MA *Macq.* DipOT

Alison Wesly, B.S.C *N.S.W.* GDip (OT) *Cumb.* MEd *N.S.W.*

Associate Lecturers

Rosalind Bye, BAppSc *Cumb.*

Joyce Enid Cribb, GradDipLeisStud *U.T.S*

Marjolien Dibden, DipOT *York*

Peta J. Mudge, AssocDipDT *Cumb.* ATCL

Brett O'Neill, BAppSc *Cumb.* MA *Macq.*

Leeanne Zakrzewski, BAppSc *Cumb.*

Special Projects Officer

Cheryl Bates, RN, CM. DipTeach (Nursing)

Administrative Assistant

Sharon Woods

Orthoptics

Head of School

Neryla Jolly, MA *Macq.* DOB A (T)

Associate Professor

Elaine D. Cornell, DipAppSc *Cumb.* MA *Macq.*, DOBA

Lecturers

Jeanette D. Green, MEd *Sheff.* DBO (T)

Helen M. Goodacre, DipAppSc *Cumb.* DOBA MHIthScEd

Fractional

Robert C. Heard, BA(Hons) PhD

Associate Lecturer

Kathryn M. McKay, DipAppSc *Cumb.* Grad CertHIthScEd
DOBA

School of Physiotherapy

Head of School

Professor Joy Higgs, GradDipPhy Qtmb.BSc MHPEd PhD
N.S.W.

Professor

Roberta B. Shepherd, DipPhy Med EdD *Col.* FACP

Associate Professor

Janet H. Carr, DipPhy Med EdD *Col.* FACP

William J. Crosbie, MSc PhD *Strath* GradDipPhys DipTP
UK

Principal Research Fellow

To be advised

Senior Lecturers

Louise M. Ada, BSc *N.S.W.* GradDipPhy *Cum.* MA *Col.*

Roger Adams, BA *AM,* PhD *N.S.W.*

Jennifer Alison, BA *Macq.* DipPhy MSc *Land.*

David Beard, GradDipPhys *Nottingham* MSc *Lond* DPhil
Oxford

Elizabeth R. Ellis, BSc *N.S.W.* MSc *Boston* GradDipPhy
Cumb PhD

Elizabeth C. Henley, BSc *Mun.* BPT *McG.* MCISc *W.Ont.*

Elfreda D. Marshall, BAppSc *Lincoln* GradDipPaedPhy
Cumb MPH

Kathryn M. Refshauge, DipPhy GradDipManipTher *Cumb.*
MbiomedE *N.S.W.*

Lecturers

M. Louisa Baker, DipPhy

Robert A. Boland, BAppSc GradDipAppSc(ManipTher)
Cumb.

Ruth A.C. Bridger, DipPhy MHSced

Jane Butler, DipPhy *Auk.* GradDip AppSc (PaedPhy) *Cumb.*
MED *N.S.W.*

Colleen G. Canning, BPhy *Qld.* MA *Col.*

Michael Dessen, BSc *N.S.W.* GradDipPhy,
GradDipManipTher *Cumb.* MAppSc (ManipPhy)

Virginia Fowler, BAppSc *Lincoln* MAppSc (Phy)
 Michalene Goodsell, BAppSc GradDipManipTher *Cumh.*
 MAppSc (Phy)
 Robert D. Herbert, BAppSc *Cumh.* MAppSc (Phy)
 Adrienne E. Hunt, GradDipPaedPhy *Cumh.* MBIomedE
N.S.W.
 Linda Jackson, DipPhy GradDip AppSc (Paed Phy) *Cumh.*
 Sharon L. Kilbreath, BScPT *Qu.* MCISc *W.Ont.* PhD *N.S.W.*
 Gwenda F. Lansbury, BAppSc *Lincoln* BA *Monash* MCH
N.S.W.
 Dale Larsen, BAppSc GradDipManipTher *Cumh.* MAppSc
 (ManipPhy)
 Jane Latimer, BAppSc GradDipAppSc (ManipPhy) *Cumh.*
 Martin Mackey, BAppSc *Cumh.* BEc MSafSc *N.S.W.*
 Christopher Maher, BAppSc GradDipAppSc (ManipPhy)
 GradDipAppSc (ExSS) *Cumh.*
 Bredge McCarren, BSc *N.S.W.* GradDipPhy *Cumh.*
 GradDipAppSc(Cardiothoracic) *Lincoln*
 Grant McCormick, DipPhy GradDipManipTher *Cumh.*
 MHScEd
 Leslie Nicholson, BAppSc GradDipAppSc (Ex&SSc)
 GradDipAppSc (ManipPhy) *Cumh.*
 Veena O'Sullivan, BAppSc MAppSc (Phy) *Cumh.*
 Eva Schonstein, BAppSc *Cumh.* MHPed *N.S.W.*
 Debra Shirley, BSc *N.S.W.* GradDipPhy
 GradDipManipTher *Cumh.*
 Carolyn Smale, DipPhy GradDipManipTher *Cumh.*
 Vicki K. Williams, BAppSc *Cumh.* Med *N.S.W.*
 Alison F. Wright, DipPhy MAppSc *Cumh.*

Associate Lecturers

Joanne Cunningham, BAppSc *Cumh.* GradDipManipTher
Cumh. GradDipBiomedE *N.S.W.*
 Catherine Dean, BAppSc *Cumh.* MA *Col.*
 Catherine Johnston, BAppSc(Phy) *Cumh.*
 Karyn Whelan, BAppSc *Cumh.* MAppSc (Phy)

Department of Behavioural Sciences

Head of Department

Rosemary V. Cant, BEd Med *W.A.* PhD *Ncle.*

Associate Professors

John L. Sheppard, MA (Hons) DipEd *N.E.* PhD *Ncle N.S.W.*
 Mary T. Westbrook, BA (Hons) MA (Hons) PhD *Macq.*

Senior Lecturers

Barbara G. Adamson, BA (Hons) DipEd *NE* PhD
 Malcolm C. Colless, BSc (Hons) *N.S.W.* MA (Hons) *Macq.*
 BA Med (Hons)
 Geoffrey J. Cooke, BA *N.E.* MEd (Hons) PhD *Tor.*
 Dianna T. Kenny, MA *Macq.* DipEd BA (Hons) PhD
 Varoe Legge, BA (Hons) DipPhy MA *Macq.* PhD *N.S.W.*
 Reginald A. Mitchell, MSc *Macq.* Dip AppSc *Cumh.* BSc MED
 PhD
 Gerard Sullivan, BBS(Hons) DipEd *La Trobe* MA PhD *Ha wan*

Lecturers

Peter P. Choo, BA *Pacific Union* BEd PhD *W.A.*
 Ann Hale, BA (Hons) *Macq.*
 Lynne Harris, BSc (Hons) PhD *N.S.W.*
 Robert C. Heard, BA (Hons) PhD
 Alan Jones, BA *Macq.* DipSpEd *Kuring-gai C.A.E.*
 Doris McIlwain, BA (Hons) *Otago* PhD
 Ross G. Menzies, BSc (Hons) PhD *N.S.W.*
 Liselott E. Muhlen-Schulte, BA MA DipPsychol
 Carol O'Donnell, BA DipEd *Qld* MEd (Hons) PhD *Macq.*
 Gomathi Sitharthan, MA M Phil. *Madras* PhD
 Jeanna Sutton, BA (Hons) DipCrim. PhD *N.S.W.* BLegS
Macq.

Associate Lecturers

Syeda Zakia Hossain, BA (Hons) MA *Dhaka* MA A.N. UPhD
Qld.
 Michael Hough, BSc (Hons) *W.A.* PhD *A.N.U.* DipSocSc
 N.E.
 Mairwen Jones, BA (Hons) R.N. RPN
 Dennis McIntyre, BA (Hons) *Ncle* Dip Teach *Ncle CAB*
 Kate M. O'Loughlin, BA (Hons) *Macq.*
 Rosemary A. Pynor, BBS(Hons) *La Trobe*

Department of Biomedical Sciences

Head of Department

Jennifer M. Lingard, BSc (Hons) *Qld.* PhD MBA *U.T.S.*

Anatomy Division

Senior Lecturers

Roslyn C. Bohringer, BSc PhD MEd Admin *N.S.W.*
 Karen G. Ginn, BSc *N.S.W.* DipPhy GradDipManipTher
Cumh. DipTertEd N.E. MHPed *N.S.W.* (Acting Head of
 Division)
 Ponnambalam Sivanandasingham, MB BS *Ceyl.* PhD *Lond.*
 Hoang Tran-Dinh, MD *Saigon* DipAnat AS.AN.Z. AMC
Canb.

Lecturers

Jan Douglas-Morris, BSc MHPed *N.S.W.* Grad Dip Phyt
Cumh.
 Ann M.C. Murphy, BSc(Hons) *Qld.* MSc *Auck.* PhD *Qld.*
 Helen E. Ritchie, BSc *Qld.* MSc
 Margaret Torode, DipTeach *Deakin* BAppSc *PIT* MSc PhD
Oregon
 Svetlana Warton, MSc *Moscow State* PhD *USSR Academy of*
Science Moscow
 Patricia Weerakoon, MB BS *Ceyl.* MS *Hawaii*
 Catherine Willis, MSc *N.S.W.* DipPhy *Cumh.* DipTertEd
N.E.

Associate Lecturers

Philip Owen, BSc *N.S.W.* ARMIT ATTL

Applied Physiology Division

Senior Lecturers

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

Lecturers

Mike Climstein, MSc *Utah State* PhD *Oregon State*
 Thomas H. Gwinn, BAppSc *Cumh.* BSc

Biochemistry and Biophysics Division

Senior Lecturer

Fazlul Huq, BSc(Hons) MSc *Dhaka* PhD *Lond.* DIC DipEd
 ' M.C.AE.FRSC

Lecturers

Margaret A.C. Bermingham, MSc *N.U.I.* PhD *Lond.*
 Ian Cathers, BSc(Hons) DipEd *S.T.C.*, MBIomedE *N.S.W.*
 Dana Strain, BS *Purdue* MSc DipTertEd N. E.
 Gilbert J. Vella, BSc(Hons) PhD *N.S.W.* DipEd *S.T.C.*

Biomechanics Division

Senior Lecturer

Richard M. Smith, BSc *N.S.W.* Dip Ed MSc *Macq.* MEd
Manch. MA *Macq.* (Head of Division)

Lecturers

Michael S. Lee, BE *N.S.W.* BAppSc *Cwmfc.* MBIomedE *N.S.W.*
 Peter Sinclair, MEd BPE (Hons) *W.A.*

Wendy L. Gilleard, BAppSc (Biomed) N.S.W.J.T.MSc (Hons)
Wollongong

Physiology Division

Principal Lecturer

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

Senior Lecturers

John A. Burne, BSc (Hons) PhD DipEd *N.E.*

Alan W. Freeman, BSc (Hons) MSc PhD *Melb.*

Edward S.G. Hettiaratchi, MB BS *Ceyl.* PhD *Edin.* AMC
Canb.

Elizabeth J. Post, BSc PhD

A. Bulent Turman, MD *Aegean* PhD *N.S.W.*

Patricia D.C. Woodman, MSc PhD

Lecturers

Laura C. Batmanian, BSc (Hons) PhD *Melb.*

Chin M. Chow, MSc *Otago* PhD

Elizabeth Hegedus, BSc (Hons) *Tas* PhD *N.S.W.*

Peter K. Knight, BVSc PhD

Gary M. Lee, BSc PhD *N.S.W.* M.BA *UCQ* (Acting Head of
Division)

May B.E. Wong, MSc *N.E.* DipEd *N.S.W.* DipTertEd *N.E.*
MHPEd *N.S.W.*

Associate Lecturer

Matthew J. Coleman, BSc (Hons)

Professional Officers

Ronald D. Avery, AIST

Patricia A. Ruell, BSc

Timothy J. Turner, BAppSc *N.S.W.I.T.* *MAppScU.T.S.*

Centres

Cumberland Health and Research Centre

Director

Dianne Kitcher, BEd (PE&HE) MPH

Administration

Office Manager

Trixie Gill

Administration Assistants

Lucy Brombal

Karen Thompson

Lee Humphries

Neryl Clark

Elizabeth Conyard

Amanda Lam

Occupational Health Program

Unit Manager

Jennifer Fry, BAppSc (Occ Ther) GradDip Occ Hlth

Occupational Therapists

Liz Thomas, BAppSc (Occ Ther)

Rosemary Wood, BAppSc OT *Climb.*

Psychologists

Sharon Bent, BA (Hons) Psyc MAPsS

Thomas O'Neill, BAC (Hons) MCLinPsy (*Macq*) MAPsS

Physiotherapist

Cathy Sharpe, BAppSc (Phy)

Corporate Health Consultant

Roxanne Kitchener, BHMS (Ed)

Audiologist

Janette Brazel, BA Dip Aud *Cximb.*

Rehabilitation Counsellor

Margaret Elken, Dip Phyt M Rehab CIng

Kate Nelson, BAGrad Dip Rehab CIng

Driving Instructors

Shona Blanchett

Brian Watson

Sports Clinic

Cardio-Respiratory Specialist

Professor John R. Sutton, MD FRACP FRGS

Consulting Sports Physicians

Grace Bryant, GradDipSpSc FACSP MBBS

Medical Practitioners

Nick Brittain, BMed BMedSci

Jill McDonnell, MB BS DipRACOS Dip Paed FRACGP

Consulting Orthopaedic Surgeons

Mark Perko, MB BS FRACS

Martin R. SulUvan, FRACS

Consulting Radiologist

Brian Hammond, FRACR

Consulting Sports Physiotherapists

Andrew Hughes, BAppSc PT

Nicole Clements, BAppSc PT

Consulting Sports Psychologists

Michael Martin, BA DipEd BAppSc (Human Movement)

MA *San Diego State*, PhD

Sports Physiologist

Herb Groeller, BEd MSc (Hons)

Consulting Dietitian

Helen O'Connor, BSc Dip ND

Consulting Masseur

Peter Butler, DTM

Exercise Research Centre

Director

Professor John R Sutton, DSc MD FRACP RGS

Secretary

Lyndall Burke

National Voice Centre

Director

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

Rehabilitation Research Centre

Acting Director

Glen M Davis, FACSM PhD *Toronto*

Administration

College Principal

Professor Judith Kinnear, MSc PhD *Melb.*

GradDipComputerSim *SIT* BEd *La Trobe*

Special Projects

Lester D. Crow, CPA

Administrative Officer
Claire Essery, BA (Hons) DMS *Ulster*

Secretary to the College Principal
Margaret Kennedy

College Secretary
Hugh V. Brandon, BComm *Wollongong* AAIM CPA

Secretary to the College Secretary
Maureen Marchant

Building & Grounds Division

Head
Phillip Sorbello

Senior Works Supervisor
John Sommers

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

Grounds Manager
Brian Crick

Finance Division

Head
Pamela Wray, BBus *U.T.S.*

Administrative Officer
vacant

Purchasing Officer
Barrie Kerr

Information Technology Services Division

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

Analyst/Programmers
Prakash Chordia, MSc(Tech) *BITS Pilani*
Luis Gutierrez

Operations Supervisor
Glenn Russell

User Support Officers
vacant

Personnel Services Division

Head
Stephen Crerar, DipLab Reins & The Law *MIR*

Personnel Officers
Terence P Kennedy
Ramen Chetty, MNIA
Robyn Holz
Alan Frost
Marilyn Croft

Production Services

Acting Head
Ian J. McAulay

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

Photography
David Robertson

Printery Manager
Dianne Gillespie

Television Manager
Ian J. McAulay

Property Services Division

Head
Sharon Vaughan

Administrative Assistant
David Ryan

House Services Manager
Bruce Murray

Officer in Charge Registry
Linda Thompson

Residential Supervisor
vacant

Student Administration Services Division

Director
Kenneth J. Wade, BScN.S. W. MEdAdmin *U.N.E* DipEdPhD
M.A.C.E

Undergraduate Officer
Linda Dewer

Graduate Officer
Bharati Jayachandran

Examinations Officer
Eileen Logan

International Student Assistant
Nancy Chin

Student Welfare Services Division

Head
Mary Stewart, BA (Hons) DipEd *Nde* MEd (TEFL) *H.K.* Cert
BMAIM

Academic and Communication Skills Tutors
Andrea Chan MA (Hons) NZ MA ANUPhD RSACertTEFLA
GradDip MLT
Rosalie Thomson BA LINE LicDip S&D GradDipSC *U.W.S*
GradCertTESOL
Marie Clugston BA MLitt MA (Hons) DipContEd LINE RSA
CertTEFL

Tutor/International Student Advisor
May Thet Tun, BA MA *U. Mandalay* GradDipTEM MA
Macq.

Student Counsellor
nan Cohen BA (Hons Psych) M Psychology UWA M.A.PsS

Secretariat

Acting Head
Lester D. Crow CPA

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

EEO Coordinator
Carl Webster, BSc *Wales DipAc*

**Continuing Professional Education and
Conference Unit**

Program Coordinators

Shan I. Wolody, DipAdEd *S.C.A.E.* BSocStud
Wayne Fulford, B.Sc (*UWA*), B ED (*WAIT*), MPH (*CURT*)

College Library

College Librarian

Helen Mary Knight, BA DipLib

Senior Librarians

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

vacant

Librarians

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

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

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

Kushum L. Karan, BA (LIS) *Can.* AALIA

Dorothy Kass, BA DipLib. *N.S.W.* DipEd AALIA

DawnPayoe, BSc(Econ) *Lond.* GradDipLibScK.C.AE. ACIS
AALIA

Elaine Y. L. Tarn, Teach. Cert. *H.K.* BEd *Nott.* DipIMLib
MLib. *N.S.W.*

Carol Stevens, BEc GradDipLibSc *K.C.A.E.* AALIA

vacant

***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 the academic setting and it convened a first National Health Sciences Education Conference.

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

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

Since that time, Cumberland College has grown rapidly. The numbers of both staff and students have more than doubled. Course development and course reviews have enhanced the College's academic profile. The first Master's degrees have been awarded, and additional specialty courses commenced in Diversional Therapy, Medical Radiation Technology and Community Health. In 1984, the College commenced teaching the Aboriginal Health and Community Development course, and in 1985, it introduced the first interdisciplinary graduate diploma 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. Following this integration, the Faculty will offer undergraduate and postgraduate programs on both the Mallet Street (Camperdown) and Cumberland Campuses.

Objectives

The primary objectives of the Faculty are:

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

The supporting objectives are:

- Facilitation of interdisciplinary study, research and discussion with academic and clinical colleagues through continuing education 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 College Librarian and the Director 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 two Departments (Biomedical Sciences and Behavioural Sciences) and seven professional Schools:

- Communication Disorders
- Community Health
- Health Information Management
- Medical Radiation Technology
- Occupational Therapy
- Orthoptics
- Physiotherapy

The College's administrative structure comprises seven divisions:

- Finance
- Personnel Services
- Student Administration
- Student Welfare Services
- Property Services Division
- Building & Grounds Division
- Secretariat
- Information Technology Services Division

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

Centres

The Cumberland Health and Research Centre

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

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

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

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

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

Cumberland Health and Research Centre is administered by a Board of academic members of The University of Sydney. The Board includes the Head of 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.

Rehabilitation Research Centre

In March 1989, the Rehabilitation Research Centre was established with the charter to raise research productivity in the area of rehabilitation. Given that research in rehabilitation has impact on the scientific, clinical and professional communities, it is appropriate that a Rehabilitation Research Centre should have clear and achievable research, educational and promotional functions.

The research objectives for the Centre are to:

- Increase research productivity, publication and scholarship in the area of rehabilitation;
- Stimulate and provide training 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, 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, students are strongly advised that all courses are presented on the assumption that students possess a high level of competency in English.

This is particularly the case in respect of clinical education/field experience subjects. Practising health professionals require a high level of verbal and written communication skills in order not to place any client/patient at risk. The Faculty is sufficiently concerned about this area of skill development that students may be encouraged to take advantage of relevant support programs offered in the University.

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

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

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

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

Students applying on the basis of the NSW Higher School Certificate

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 TER in the course(s) of interest.

For 1996, an applicant must have attained a Tertiary Entrance Rank of at least 52.00.

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

There will be no specific subject prerequisites for admission to any undergraduate courses in the Faculty of Health Sciences. Applicants are advised, however, 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.

Overseas Qualifications

Applicants should:

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

Special Admission

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

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

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

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

All applicants for Special Admission must complete a UAC Application. Application forms are usually available from UAC by August each year.

Note carefully the following points:

- (a) All applicants must indicate clearly, on the 'Application for Admission' form submitted, that they are applying for Special Admission to the University of Sydney. Please state under which scheme you are applying and check that you have complied with the requirements.
- (b) If you are applying as a mature age applicant, then you must indicate your entry qualification (for example, Special Admission Preparation Course, Limited HSC, Tertiary Preparation Course).
- (c) If you are applying as an educationally disadvantaged applicant, then you must provide, in addition to your UAC application: A clear explanation of your educational history, stating clearly the reasons which, in your opinion, prevented you from obtaining or completing a satisfactory education or which interfered with 'normal educational progress'. This separate submission should be accompanied by independent supporting documentation (for example, doctor's report) and forwarded directly to the Special Admissions Officer at the University of Sydney by the last working day in November.

Admission based on a Tertiary Record

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

Special Cases

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

Other Requirements

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

Other Admissions Schemes

Vocational Entry Scheme

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

Multicultural Admission Scheme

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

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

Aboriginal & Torres Strait Islander Admission Scheme

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

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

HSC applicants

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

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

Mature age applicants

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

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

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

Support for Aboriginal & Torres Strait Islanders

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

- preparatory/bridging units in biological sciences, numeracy and tertiary study skills
- supplementary tutorial assistance in biological sciences, behavioural sciences and professional studies
- study skills assistance
- provision to do the first year of an award over two years.

The Aboriginal Education Unit supports all Aboriginal and TSI students on campus by providing a separate study area, common room and cultural and academic support.

The Broadway Scheme

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

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

Applications must be submitted with independent supporting documentation eg. doctors' reports, counsellors' reports, teachers' reports etc. and must be endorsed by the school principal.

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

Support for Students with Disabilities

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

Behavioural and Biomedical Sciences

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

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

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

Behavioural Sciences

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

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

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 chemical, mathematical or physics concepts is essential to an understanding of theories of structure and function of the human organism.

Rather than define specific mathematics and science subjects as prerequisites, the Faculty has provided the following information to assist applicants to gauge their preparedness to undertake study in the Faculty of Health Sciences. This assumed knowledge does not apply to 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. Those students who do not meet the required level of assumed knowledge are encouraged to complete the appropriate bridging course.

The following tables state concepts, knowledge, abilities and skills which enable easier assimilation by students commencing study of biomedical sciences. The items listed are not prerequisites for entering biomedical science subjects, and should not be understood as such.

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

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

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

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

Chemistry

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

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

Mathematics

(relevant for Medical Radiation Technology and Health Information Management)

- Identify and be familiar with the following concepts and terms: number, numeral, variable, reciprocal, ratio, function, logarithm (exponent or index).
- Knowledge of laws of indices, and the associated behaviour of logarithms.
- Ability to perform the following algebraic operations: - multiplying through brackets - collecting like terms - changing the subject of simple formulae.
- Ability to solve linear simultaneous equations in two variables, such as:
$$x + 2y = 5$$
$$2x - 3y = 4$$
- Ability 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.
- Ability to draw graphs of the following kinds of relations:
$$y = mx + b$$
$$y = ax^2 + bx + c$$
$$y = 1/x^m$$
- Ability to carry out quick and accurate computations using a digital calculator.
- Ability to draw a graph of the relationship of a dependent variable to an independent variable and to be able to interpret such graphs.
- Ability to differentiate and integrate functions including polynomials, exponentials and trigonometric functions.

Physics

(relevant for Medical Radiation Technology, Physiotherapy and Orthoptics)

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

Bridging Courses

Bridging courses are offered in *Chemistry, Physiology, Physics*, and *Grammar* (for Speech Pathology students only). These courses are recommended to students who feel that they have not attained the level of assumed knowledge detailed 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 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.

Honours Programs

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

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

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

Information provided here on these Honours 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 of the course and eligibility for admission is based on performance during Years 1 and 2 of the student's course. Selection of students into an Honours Program is competitive and is made from students meeting admission criteria. Students to enter the Honours program will be selected on the basis of their academic record and research interests. Availability of places, appropriate supervisors, and resources and facilities to support the student's proposed research may affect selection. After results are released at the end of second year, students are notified by Student Administration Division (Cumberland) if they have met the criteria for admission. Upon receipt of this notification, students wishing to be admitted to the Honours Program indicate to the Head of School in writing in the designated manner their intention 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 Programs. Completion of a thesis, or in some cases a treatise, is required. Details of specific requirements within the Honours Programs are given under each School's entry in this Handbook. Any student in the 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 an integer 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 and, if accepted, the level of Honours to be awarded.

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

Awards and Prizes

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

The Alcusal Prize for Research

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

The Australian Physiotherapy Association Prize

Awarded to the most proficient graduand of the Bachelor of Applied Science (Physiotherapy) course.

Additionally, the Australian Physiotherapy Association offers a prize to the graduand from the Bachelor of Applied Science (Physiotherapy) course who achieves the highest standard in clinical practice.

The Ciba-Geigy Prize

Awarded for the attainment of the highest aggregate mark in the subject Occupational Role Development in the Bachelor of Applied Science (Occupational Therapy) course.

The Diversional Therapy Association of Australia Prize

Awarded for the attainment of the highest aggregate marks in the subjects Diversional Therapy Facilitation Skills I and II in the Diploma of Applied Science (Diversional Therapy) course.

The Hilda Roberts Memorial Prize

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

The Jillian Salter Memorial Award

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

The J.Val Simpson Memorial Prize for Manual Therapy

Donated by the Manual Therapy Study Group of NSW. This prize is awarded to the student exhibiting the highest proficiency in manual therapy in the Bachelor of Applied Science (Physiotherapy) course.

The Met-a-Lite Prize for Components of Occupational Performance

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

The Murray F. Allan Memorial Award

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

The NSW Association of Occupational Therapists' Prize for Occupational Therapy and Process and Issues in Occupational Therapy Practice

Awarded for the attainment of the highest aggregate mark for the subject Occupational Therapy Theory and Process I, H and III and Issues in Occupational Therapy Practice, a subject in the fourth year of Bachelor of Applied Science (Occupational Therapy) course.

The NSW Branch of the Australian Association of Speech and Hearing Prize

Awarded for general proficiency in the final year of the Bachelor of Applied Science (Speech Pathology) course.

The Patricia Lance / John Pockley Prize

Donated by the Orthoptic Board of Australia, NSW Branch. Awarded for general proficiency demonstrated throughout the Bachelor of Applied Science (Orthoptics) course.

The Private Speech Pathologists' Association of New South Wales Prize

Awarded for clinical proficiency during the final two years of the Bachelor of Applied Science (Speech Pathology) course.

The Private Speech Pathologists' Association of New South Wales Master Thesis Prize

Donated by the Private Speech Pathologists' Association of NSW for a Master Thesis, which has been successfully examined and is considered of outstanding merit.

The Rosemary E. Wilson Memorial Prize for Caring and Giving

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

Financial Assistance

Austudy

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

Continuing students should submit their applications as soon as their results are available. New students should lodge their applications as soon as possible after enrolment or by 31st March to receive their full year's entitlement. Austudy information and application forms may be obtained from:

Commonwealth Department of Employment,
Education & Training
Austudy (Tertiary) Section
112 Main Street, 1st Floor
Blacktown, NSW 2148
P.O.Box 1042
Blacktown, NSW 2148
Telephone: (02) 672 5555
Toll-free: (008) 463 965

Abstudy

Abstudy provides assistance for Aboriginal and Torres Strait Islander students in a wide range of full- and part-time courses. Abstudy benefits for full-time students include living allowance, dependent spouse allowance, incidental allowance and payment of tutorial and fares costs. Abstudy enquiries should be directed to:

Commonwealth Department of Employment,
Education & Training
Abstudy
112 Main Street, 1st Floor
Blacktown, NSW 2148
P.O.Box 1042
Blacktown, NSW 2148
Telephone: (02) 672 5503
Toll-free (008) 463 965

Loans

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

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

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

Interest free loans of up to \$1000 are available to overseas students for living expenses.

Students seeking assistance from the fund should obtain an application form from Student Welfare Services (Cumberland). The maximum amount of the loan is normally \$1500.00 with an interest free period of twelve (12) months.

Explanation of Subject Numbering System

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

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

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

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

- 08 School of Community Health
- 09 School of Health Information Management
- 10 Department of Behavioural Sciences
- 11 Department of 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

Summary of Undergraduate Diplomas and Degrees

Bachelor of Applied Science (BAppSc)

Diversional Therapy	3 years	F/T	1531
Exercise and Sport Science ¹	3 years	F/T	1118
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	4 years	F/T	1206
Speech Pathology (Modified Course)	2 V ₂ years	F/T	1207

Bachelor of Health Science (BHlthSc)

Aboriginal Health and Community Development ¹	4 years (Block attendance)		0853
Medical Radiation Technology ²	3 years	F/T	0856
Medical Radiation Technology ³	2 years	P/T	2004
Diagnostic Radiography	1 year	F/T	
Radiation Therapy			1830
Nursing ²	(September start) 2 years	P/T	1831
	(April start) 2 years	P/T	2001
Occupational Therapy ²	2 years	P/T	2011
Occupational Therapy ³	2 years	P/T	2002
Physiotherapy ²	1 year	F/T	1532
Physiotherapy ³	2 years	P/T	2003
Rehabilitation Counselling ¹	1 year	F/T	1650
	3 years	F/T	0819
	6 years	P/T	0820

Diploma of Health Science (DipHlthSc)

Aboriginal Health and Community Development	2 years plus 1 year	P/T F/T	0808
--	------------------------	------------	------

Notes

¹ Honours Program Available. Total Course Length 4 Years Full-time.

² Singapore-based (off-shore) course.

³ Sydney-based courses for 'A-level' entry Nanyang Diplomates only.

4 Graduate Courses

Doctor of Philosophy

The degree of Doctor of Philosophy is a research degree awarded for a thesis considered to be a substantially original contribution to the subject concerned. Some coursework may be required (mainly in the form of seminars) but in no case is it a major component.

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

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

Probationary acceptance

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

Faculty of candidature

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

Control of candidature

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

Other studies during the candidature

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

Earliest date for submission

1.
 - i) Except as provided in subsection ii), a candidate may not submit a thesis for examination earlier than the end of the sixth semester of candidature,
 - ii) A faculty may permit a candidate holding any of the following qualifications of the University of Sydney or from such other institution as the faculty may approve, to submit a thesis for examination not earlier than the end of the fourth semester of candidature -

- a) a degree of Master completed primarily by research;
2. Notwithstanding the provisions of section 1 a Faculty may, on the recommendation of the head of school/department and supervisor concerned, permit a candidate to submit a thesis for examination up to one semester earlier than prescribed if, in the opinion of the faculty, evidence has been produced that the candidate has made exceptional progress in his or her candidature.

Latest date for submission

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

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

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

Please refer to Summary of Graduate Courses at the end of this chapter for course details.

Degree of Master by Research

The following information should be read in conjunction with the Senate Resolutions in the University of Sydney Calendar and the relevant entry in the chapter of the presenting School/Department (refer to Table of Contents).

Applications

1. An application for admission to a Master's degree program is accepted subject to the availability of facilities and supervision. Courses and arrangements as stated in the Handbook or any other publication, announcement or advice of the Faculty are expression of intent only and are not to be taken as a firm offer or undertaking. The Faculty reserves the right to discontinue or vary such courses, or arrangement of staff allocations at any time without notice.
2. An application shall be made on the prescribed form and shall be lodged with the Director, Student Administration (Cumberland).

3. An application shall normally be made by 1 October immediately preceding the year in which the applicant wishes to register, except that, for a program being conducted for the first time, application for admission shall be made by the specified closing date, as determined by the Director, Student Administration (Cumberland), from time to time.
4. An applicant may seek admission to a Master's degree program as:
 - a) a full-time student, or
 - b) a part-time student.

Registration

1. The Faculty may either:
 - a) Permit an applicant to register as a Master's degree candidate in one of the following Master of Applied Science courses:
 - Behavioural Health Science
 - Communication Sciences and Disorders
 - Exercise and Sport Sciences
 - Health Information Management
 - Human Biomedical Sciences
 - Medical Radiation Technology
 - Occupational Therapy
 - Orthoptics
 - Physiotherapy
 - OR Master of Health Science courses:
 - Community Health
 - Education
 - Gerontology
 - Rehabilitation Counselling
 - OR Master of Communication Disorders
 - OR
 - b) Permit an applicant to register as a Master's Qualifying student for the purpose of preparing for candidature in any of the above Master's degree courses. On successful completion of the Qualifying Program, a prospective Master's degree student is required to apply for admission to the Master's degree program.
2. An applicant registered as a Degree candidate or as a Qualifying student will not be permitted to undertake concurrently other graduate studies in the University, or elsewhere, except with the approval of the Faculty.
3. The Faculty shall not permit an applicant to register as a Qualifying student or as a Degree candidate unless it has received a certificate from the Head of the School/Department stating that after consultation with the prospective candidate and appropriate members of the School/Department, the Head of the School/Department is of the opinion that the applicant is suited to undertake a program leading to the Master's degree and that the Head of School/Department has informed each prospective Master's degree candidate of the current research interests of members of the School/Department, as well as indicating the availability of resources that each prospective candidate could be expected to call upon during his/her research.
4. The Faculty may permit an applicant to register as a Master's Degree candidate if the applicant has:
 - a) Qualified for admission in terms of the admission requirements (see Section on Admission Requirements under each course),

PR

- b) Been enrolled as a Master of Applied Science/Health Science Qualifying Student in the Faculty and has subsequently carried out such work, passed such examinations and reach such standards as the Faculty shall prescribe and has not previously been denied enrolment as a Master of Applied Science/Health Sciences degree candidate in the respective courses on two occasions.

AND

- c) Satisfied the Faculty that the applicant can devote sufficient time to advanced study and research.

AND

- d) An overseas applicant may be required to submit additional information to satisfy Head of School/Department.

See Chapter 15 for additional administrative information.

Course Requirements

1. General

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

2. Minimum Time

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

OR

- ii) in the case of a part-time student, until a period of at least six semesters has elapsed from the time of registration as a Master's degree candidate.

3. Maximum Time

- a) A Qualifying student shall complete the program within two years.
- b) A candidate shall present for examination:
 - i) in the case of a full-time student, not later than six semesters from the date of registration as a Master's degree candidate,

OR

- ii) in the case of a part-time student, not later than ten semesters from the date of registration as a

Master's degree candidate, unless special permission for an extension of time be granted by the Faculty.

4. Discontinuation of Registration

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

5. Fieldwork and Supervision

In respect of full-time student or part-time student:

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

6. Progress Reports

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

7. Research Subject

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

8. Advisory Committee

Each Master's degree student may be provided with an advisory committee to supplement the supervisory assistance provided by the student's appointed supervisor.

The Committee would normally be composed of up to three University Academic staff and where the supervisor is not from the respective School/Department, one member of that committee will be from the School/Department.

The Committee would be under the Chairmanship of the student's appointed supervisor. The Committee may co-opt persons who are not members of the University Academic staff. At no time would the committee consist of more than four persons.

Following Faculty approval of the student's research thesis subject, the selection of members of the Master's Advisory Committee would be made by the student's supervisor in conjunction with the Head of School/Department. This membership would be submitted to the Graduate Studies Committee for approval on behalf of Faculty.

The Advisory Committee would normally meet at least once each semester to consider the student's progress report. With approval of the student's supervisor, the Committee may meet more frequently. It is expected that each member of the Committee should be available for consultation with

the student at times that are mutually convenient. The arrangement will be negotiated by the student's supervisor and approved finally by the Heads of Schools / Departments involved.' The student's supervisor may also require the Committee to assist in matters concerned with the final presentation of the student's research thesis.

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

Research Thesis

1. On completion of studies, a Master's degree candidate will submit a thesis which complies with the following requirements:
 - a) The greater proportion of the work described must have been completed subsequent to initial registration, and
 - b) It must be a distinct contribution to the knowledge of the subject whether by original investigation or by review, and
 - c) It must be written in English or in a language approved by the Faculty and reach a satisfactory standard of literary presentation.
2. The thesis shall consist of the candidate's own account of his/her work. In special cases work done conjointly with other persons may be accepted provided the Faculty is satisfied with the candidate's part in the joint work.
3. Every candidate shall submit with the thesis a short abstract of the thesis comprising not more than 300 words.
4. A candidate may not submit as the main content of the thesis any work or material which has been previously submitted for a degree or other similar award, but shall not be precluded from incorporating such in the thesis, provided that he / she indicates generally in the preface and specifically in the notes of the work, material which has been so incorporated.
5. The candidate shall give in writing two months notice of the intention to submit the thesis.
6. Two copies of the thesis shall be prepared by the candidate.
 - a) The thesis shall be submitted to the Director, Student Administration (Cumberland) by the Head of School/Department with a certificate signed by the supervisor(s) certifying that the candidate's thesis is ready for examination.
 - b) If the Head of School/Department declines to accept the thesis, the supervisor may appeal to the Graduate Studies Committee.
 - c) If the supervisor or supervisor(s) decline(s) to certify the thesis is ready for examination and the Head of School/Department declines to accept the thesis, a candidate may appeal to the Graduate Studies Committee.
7. The following guidelines shall be followed in the preparation of the thesis:
 - a) A thesis should be typed on medium-weight A4 on one side of the paper only with double spacing, but in exceptional circumstances and with the approval of the Head of School/Department other forms of presentation may be permitted.

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

released to other persons only on the authorisation of the Director, Student Administration (Cumberland), after consultation with the Head of School/Department, but otherwise by lodging a thesis, a candidate consents to its release under Rule 8 (a).

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

Examination of Thesis

1. The Faculty shall appoint at least two examiners, at least one of whom shall be external to the Faculty. The student's supervisor(s) shall not be an examiner.
2. All examiners shall be furnished with a copy of the course description and course requirements as published in the Faculty Handbook.
3. The candidate may be required to attend the College or such other place as the Faculty shall determine for an oral examination of his/her thesis.
4. The report of examiners shall be forwarded to the Head of School/Department who shall recommend that Graduate Studies Committee which shall:
 - a) Recommend to Faculty that the student be admitted to the degree (with or without the completion of emendations, minor alterations or corrections of typographical or spelling errors to the satisfaction of the Head of School/Department), or
 - b) Permit the student to re-submit his/her thesis within one/two semesters for re-examination, or
 - c) Cancel the student's registration as a Master's degree candidate.

Degree of Master by Coursework

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

Award of Graduate Diploma

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

Award of Graduate Certificate

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

Awards, Prizes and Scholarships

Postgraduate Awards

A limited number of competitive Australian Postgraduate Awards are made available to assist students undertaking full-time PhD and Master's degree courses by coursework or by research at Australian higher education institutions.

Applicants are expected to have an undergraduate record at honours level or to have outstanding results in a pass degree, or in preliminary studies or in the first year of a Master's degree.

The Awards are available to Australian citizens and permanent residents. Selection is based primarily on academic merit and relevant experience, and is highly competitive.

The closing date for applications is 15 October of each year. Application forms are available from the Student Administration Division (Cumberland). For additional information contact:

The Research and Scholarships Office
3rd Floor, Holme Building
The University of Sydney NSW 2006
Telephone: (02) 351-3250 Fax: (02) 351-3256

The Butterworth-Heinemann Treatise Prize

Donated by Butterworth-Heinemann Publishers. Awarded to the postgraduate physiotherapy student submitting the best coursework treatise.

The Butterworth-Heinemann Thesis Prize

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

The Private Speech Pathologists' Association of New South Wales Master's Thesis Prize

Awarded for a Master's Thesis which has been successfully examined and is considered of outstanding merit.

Scholarships

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

Clinical Supervisory positions for Post-graduate Students

Qualified Speech Pathologists are regularly employed by the School of Communication Disorders on a full or part-time basis to provide supervision to the School's undergraduate students in clinical practice.

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

Research Assistantship

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

Explanation of Subject Numbering System

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

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

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

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

- 08 School of Community Health
- 09 School of Health Information Management
- 10 Department of Behavioural Sciences
- 11 Department of 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 Exercise Research Centre

Subject Unit Values

The subjects in all graduate courses have been defined in terms of units. A unit is based on total student workload (incorporating both formal classwork and private study). For all graduate courses in the Faculty of Health Sciences *one unit is defined as 22 hours of total student workload.*

SUMMARY OF GRADUATE DEGREES, DIPLOMAS AND CERTIFICATES

Doctor of Philosophy	(PhD)	min 3 years	F/T	
		max 5 years	F/T	
		min 3 years	P/T	
		max 7 years	P/T	
• Behavioural Sciences			F/T	1003
			P/T	1002
	Research Thesis			10601
• Biological Sciences			P/T	1109
			P/T	1108
	Research Thesis -			11601
• Communication Sciences and Disorders			F/T	1211
			P/T	1210
	Research Thesis			12601
• Community Health			F/T	0850
			P/T	0841
	Research Thesis			08601
• Health Information Management			P/T	0912
			F/T	0916
	Research Thesis			09601
• Medical Radiation Technology			F/T	1825
			P/T	1820
	Research Thesis			18601
• Occupational Therapy			P/T	1521
			P/T	1524
	Research Thesis			15601
• Orthoptics			P/T	1412
	Research Thesis			14601
• Physiotherapy			F/T	1618
			P/T	1623
	Research Thesis			16601
• National Voice Centre				21**
• Exercise Research Centre				22**

Master of Applied Science	(MAppSc)			
• Behavioural Health Science (by research)		min 2 years	F/T	1005
		min 3 years	P/T	1006
• Communication Sciences and Disorders (by research)		min 2 years	F/T	1213
		min 3 years	P/T	1214
• Exercise and Sport Sciences (by research)		min 2 years	F/T	1114
		min 3 years	P/T	1115
• Health Information Management (by research) min 2 years		-F/T	0909	
		min 3 years	P/T	0910
• Human Biomedical Sciences (by research)		min 2 years	F/T	1116
		min 3 years	P/T	1117
• Medical Radiation Technology (by research) min 2 years		F/T	1827	
		min 3 years	P/T	1828
• Occupational Therapy (by research)		min 1 years	F/T	1518
		min 2 years	P/T	1511
• Occupational Therapy (by coursework)		min 3 sem	F/T	1514
		min 3 years	P/T	1516
• Orthoptics (by research) (Hons entry)		min 1 year	F/T	1407
		min 2 years	P/T	1408
• Physiotherapy (by research)		min 2 years	F/T	1624
		min 3 years	P/T	1625
• Physiotherapy (by coursework)			F/T	1644
			P/T	1645
	Manipulative Physiotherapy	min 3 sem	F/T	1632
		min 3 years	P/T	1633
	Sports Physiotherapy	min 3 sem	F/T	1630
		min 3 years	P/T	1631

Master of Health Science	(MHIthSc)			
• Community Health (by research) (Hons entry)	min 1 year	F/T	0821	
		min 2 years	P/T	0822
• Education (by research)		min 2 years	F/T	0827
		min 3 years	P/T	0828
• Gerontology (by research) (Hons entry)		min 1 year	E/T	0831
		min 2 years	P/T	0832
• Rehabilitation Counselling (by research)		min 2 years	F/T	0848
		min 4 years	P/T	0849
Master of Behavioural Health Science (by coursework)	(MBHS)	min 3 sem	F/T	1007
		min 3 years	P/T	1008
Master of Communication Disorders (by research)	(MComDis)	min 3 sem	F/T	1215
		min 3 years	P/T	1216
Master of Community Health (by coursework)	(MComHIth)	min 3 sem	F/T	0817
		min 3 years	P/T	0836
Master of Child and Adolescent Health (by coursework)	(MCAH)	min 3 sem	F/T	1013
		min 3 years	P/T	1014
Master of Exercise and Sport Sciences (by coursework)	(MEx & SpSc)	min 3 sem	F/T	1110
		min 3 years	P/T	1111
Master of Gerontology (by coursework)	(MGeront)	min 3 sem	F/T	0833
		min 3 years	P/T	0842
Master of Health Science Education (by coursework)	(MHIthScEd)	min 3 sem	F/T	0829
		min 3 years	P/T	0830
Master of Rehabilitation Counselling (by coursework)	(MRehabCIing)	min 3 sem	F/T	0823
		min 3 years	P/T	0824
		min 3 years	(Off-campus]1	0854
Graduate Diploma of Applied Science	(GradDipAppSc)			
• Health Information Management		min 1 year	F/T	0906
		min 2 years	P/T	0905
• Medical Ultrasonography Physiotherapy		min 2 years	P/T	1807
			F/T	1646
			P/T	1647
• Manipulative Physiotherapy		min 1 year	F/T	1607
		min 2 years	P/T	1612
• Sports Physiotherapy		min 1 years	F/T	1640
		min 2 years	P/T	1641
Graduate Diploma in Behavioural Health Science	(GradDipBHS)	min 1 year	F/T	1009
		min 2 years	P/T	1010
Graduate Diploma in Child & Adolescent Health	(GradDipCAH)	min 1 year	F/T	1015
		min 2 years	P/T	1016
Graduate Diploma in Community Health	(GradDipComHIth)	min 1 year	F/T	0834
		min 2 years	P/T	0837
Graduate Diploma in Exercise and Sport Sciences	(GradDipEx&SpSc)	min 1 year	F/T	1112
		min 2 years	P/T	1113
Graduate Diploma in Gerontology	(GradDipGeront)	min 1 year	F/T	0835
		min 2 years	P/T	0838
Graduate Diploma in Health Science Education	(GradDipHIthScEd)	min 1 year	F/T	0843
		min 2 years	P/T	0844

Graduate Diploma in Rehabilitation Counselling	(GradDipRehabCIng)	1 year min 2 years	F/T (Off-campus)	0801 0855
Graduate Certificate of Applied Science	(GradCertAppSc)	min 1 year min 1 year	P/T P/T	1824 1525
• Medical Ultrasonography				
• Occupational Therapy				
Graduate Certificate of Applied Science	(GradCertAppSc)	min 1 sem min 1 year	F/T P/T	1648 1649
• Physiotherapy				
Graduate Certificate in Behavioural Health Science	(GradCertBHS)	mini sem min 1 year	F/T P/T	1011 1012
Graduate Certificate in Casemix	(GradCert ?)	min 1 year	P/T	0914
Graduate Certificate in Clinical Data Management	(GradCert ?)	min 1 year	P/T	0915
Graduate Certificate in Child and Adolescent Health	(GradCertCAH)	mini sem min 1 year	F/T P/T	1017 1018
Graduate Certificate in Health Science Education	(GradCertHlthScEd)	mini sem min 1 year	F/T P/T	0825 0826

5 Department of Behavioural Sciences

The Department of Behavioural Sciences, established in 1973, has the brief of providing an underpinning in behavioural science to the courses presented by the Schools of the Faculty. The students of the Department are to be found in all the Schools, where they are learning to become health practitioners. In degree courses they usually study behavioural science for three years. The Department has input also into the Faculty's Diplomas, Graduate Diplomas and Masters degrees, and presents a wide range of subjects developed both to cater for knowledge that is common to different Schools and to cover aspects that are specially developed for particular Schools. In addition there is opportunity for students to undertake PhD studies within the Department and the Department's own Masters degrees.

A number of Masters and PhD students are conducting research with staff who have interest and expertise in either the psychological or sociological aspects of health and illness.

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

Summary of Behavioural Sciences Subjects

Number	Name	School/Department	Page(s)
101A0	Health and Human Behaviour I	Community Health.....	8-8,8-13
101A1	Behavioural Science I	Medical Radiation Technology.....	10-4
101A2	Introduction to Psychology	Health Information Management.....	9-4
101A3	Introduction to Sociology	Health Information Management.....	9-4
101A4	Psychology of Human Performance	Physiotherapy.....	13-4
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
101B3	Behavioural Science I	Orthoptics.....	12-3
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.....	7-5
101B9	Behavioural Science (Modified Course)	Communication Disorders.....	7-9
101C5	Research Methods I: Design	Physiotherapy.....	13-4
101C6	Psychosocial Aspects of Recreation and Sport	Biomedical Sciences.....	6-4
10283	Behavioural Science II	Medical Radiation Technology.....	10-4
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.....	9-6
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	Singapore Conversion Courses.....	14-6
10297	Behavioural Science II	Occupational Therapy.....	11-10
10298	Research Methods and Statistics	Singapore Conversion Courses.....	14-6
10299	Research Methods and Designs	Orthoptics.....	12-3
102A1	Health and Human Behaviour II	Orthoptics.....	12-4
102A2	Disability Studies II	Orthoptics.....	12-4
102A3	Cognitive Neuropsychology I	Community Health.....	8-8, 8-13
102A4	Research Methods and Statistics II	Community Health.....	8-13
		Communication Disorders.....	7-5
		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
102B2	Research Methods I: Design	Health Information Management.....	9-12
10392	Research Statistics	Physiotherapy.....	13-10
10393	Social Research	Community Health.....	8-8, 8-13
10394	Behavioural Science III	Medical Radiation Technology.....	10-6
		Singapore Conversion Courses.....	14-4
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.....	7-7
103A9	Patient Management: Theories and Applications	Communication Disorders.....	7-7
103B1	Social and Health Psychology	Communication Disorders.....	7-7
103B2	Behavioural Science III (Honours)	Medical Radiation Technology.....	10-7
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!!	Occupational Therapy.....	11-5
103B9	Research Methods II: Data Analysis	Physiotherapy.....	13-6
10452	Multicultural Issues in Gerontology	Appendix 1.....	A-4
10454	Behavioural Aspects of Ageing	Community Health.....	8-29
		Appendix 1.....	A-4
10457	Health, Medicine and Society	Physiotherapy.....	13-7
		Singapore Conversion Courses.....	14-8
10458	Psychology	Physiotherapy.....	13-11,13-16,13-24
10459	Motor Learning	Biomedical Sciences.....	6-7
10460	Psychosocial Aspects of Sport	Biomedical Sciences.....	6-7
		Physiotherapy.....	13-24
		Appendix 1.....	A-4
		Biomedical Sciences.....	6-7
10461	Research Methods	Appendix 1.....	A-4
10463	Social Psychology	Occupational Therapy.....	11-12
10465	Psychology of Adulthood and Aging	Occupational Therapy.....	11-12
10466	Social Psychology	Occupational Therapy.....	11-12
10467	Sociology Elective	Singapore Conversion Courses.....	14-6
		Physiotherapy.....	13-16
10472	Motor Performance and Learning	Medical Radiation Technology.....	10-8
10475	Research Methods and Statistics	Physiotherapy.....	13-25
10478	Motor Performance and Learning	Physiotherapy.....	13-7
10479	Health Psychology	Singapore Conversion Courses.....	14-8
		Communication Disorders.....	7-9
10480	Honours Research Methods Individual Studies II	Health Information Management.....	9-7,9-14
10503	Intermediate Statistics	Medical Radiation Technology.....	10-8
		Orthoptics.....	12-7
		Appendix 1.....	A-9
10504	Multivariate Statistics	Medical Radiation Technology.....	10-8
		Appendix 1.....	A-9
10505	Qualitative Research Methods	Medical Radiation Technology.....	10-8
		Appendix 1.....	A-10
10514	Survey Research Methods	Medical Radiation Technology.....	10-8
		Appendix 1.....	A-10
10515	Thesis Development Seminar	Behavioural Sciences.....	5-6
10516	Research Thesis	Behavioural Sciences.....	5-6
10517	Abnormal Psychology and Mental Health	Behavioural Sciences.....	5-6
		Appendix 1.....	A-4

10518	Behaviour Modification and Cognitive Behavioural Therapy	Behavioural Sciences.....	5-6
		Appendix 1.....	A-4
10519	Biofeedback	Behavioural Sciences.....	5-6
		Appendix 1.....	A-4
10520	Cognitive Function in Neurological Disorders	Behavioural Sciences.....	5-6
		Appendix 1.....	A-4
10521	Counselling	Behavioural Sciences.....	5-6
		Appendix 1.....	A-4
10522	Critical Thinking	Behavioural Sciences.....	5-6
		Appendix 1.....	A-4
10523	Cultural Approaches to Disease and Healing and Ethnographic Analysis	Behavioural Sciences.....	5-6
		Appendix 1.....	A-5
10524	Health Policy and Social Theory	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10525	HIV/AIDS: Health and Social Services	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10526	Introduction to Medical Anthropology	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10527	Occupational Health and Stress	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10528	Post Trauma Stress	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10529	Psychoanalysis, Health, Gender and the Family	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10530	Qualitative Research Analysis	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10531	Research Methods for Medical Anthropologists	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10532	Social Change and Health Services	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10533	Social Skills of the Intellectually Disabled	Behavioural Sciences.....	5-7
		Appendix 1.....	A-5
10534	Social Theory and Special Groups	Behavioural Sciences.....	5-7
		Appendix 1.....	A-6
10535	Sociology of Gender Relations	Behavioural Sciences.....	5-7
		Appendix 1.....	A-6
10536	Stress and Coping: Social Context -and Individual Differences	Behavioural Sciences.....	5-7
		Appendix 1.....	A-6
10537	Stress and Disability	Behavioural Sciences.....	5-8
		Appendix 1.....	A-6
10538	Stress and Illness: Management Issues	Behavioural Sciences.....	5-8
		Appendix 1.....	A-6
10539	Stress: Performance, Psychophysiology, and Exceptional Events	Behavioural Sciences.....	5-8
		Appendix 1.....	A-6
10540	Visualisation and Imagery	Behavioural Sciences.....	5-8
		Appendix 1.....	A-6
10547	Psychology of Child Development	Physiotherapy.....	13-25
10548	Psychology of Adolescent Development	Physiotherapy.....	13-25
10551	Developing a Research Project	Appendix 1.....	A-10
10552	Group and Single Case Experimental Research in Clinical Settings	Appendix 1.....	A-10
10553	Computing for Health Practitioners	Behavioural Sciences.....	5-8
		Appendix 1.....	A-6
10557	Violence Against Children and Adolescents -in context	Behavioural Sciences.....	5-17
		Appendix 1.....	A-6
10558	Contemporary Issues in Childhood and Adolescence	Behavioural Sciences.....	5-17
		Appendix 1.....	A-7

10559	Therapy with Children, Adolescents and their Families	Behavioural Sciences.....5-17 Appendix 1.....A-7
10560	Child and Adolescent Assessment: Psychosocial and Legal Issues	Behavioural Sciences....., 5-17' Appendix 1.....A-7
10561	Young People and Social Control in Australia	Behavioural Sciences.....5-17 Appendix 1.....A-7
10562	The Sociology of Deviance	Behavioural Sciences.....5-17 Appendix 1.....A-7
10563	Sociology of Community and Family	Behavioural Sciences.....5-18 Appendix 1.....A-7
10564	Psychology of Child Development and Adjustment	Behavioural Sciences.....5-18 Appendix 1.....A-7
10565	Psychology of Adolescent Development and Adjustment	Behavioural Sciences.....5-18 Appendix 1.....A-8
10566	Subcultural and Cross Cultural Issues: The Costs of Marginality	Behavioural Sciences.....5-18 Appendix 1.....A-8
10567	Health and Cultural Pluralism	Behavioural Sciences.....5-18 Appendix 1.....A-8
10568	HIV/AIDS: Health and Social Services	Behavioural Sciences.....5-18 Appendix 1.....A-8
10571	Intermediate Statistics	Biomedical Sciences.....6-12, 6-14 Medical Radiation Technology.....10-15 Appendix 1.....A-9
10572	Qualitative Research Methods	Appendix 1.....A-10
10573	Multivariate Statistics	Appendix 1.....A-9
10574	Survey Research Methods	Appendix 1.....A-10
10575	Developing a Research Project	Appendix 1.....A-10
10576	Group and Single Case Experimental Research in Clinical Settings	Appendix 1.....A-10
10577	Research Thesis Preparation	Behavioural Sciences.....5-6
10578	Introduction to SPSS	Appendix 1.....A-1
10579	Intermediate SPSS	Appendix 1.....A-1
10580	Computer Literacy for the Health Professional	Appendix 1.....A-1
10581	Internet for the Health Professional	Appendix 1.....A-1
10900	Special Program for Qualifying Students	Behavioural Sciences.....5-6

Table 5.1 Master of Applied Science (Behavioural Health Science) (By Research)

Course

Code Mode of Offer

1004 *Special Program (for Master Qualifying Students)*

1005 *Full-time, minimum 2 years or 4 semesters*

1006 *Part-time, minimum 3 years or 6 semesters*

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
	Research Elective ¹	8	8	
	Elective A ²	5	5	
	Elective B ²	5		5
10515	Thesis Development Seminar	8		
10577	Research Thesis Preparation			

Year 2 (and subsequent years)

10577	Research Thesis Preparation			
-------	-----------------------------	--	--	--

Part-time Mode

Year 1

	Research Elective ¹	8	8	
	Elective A ²	5		5
10515	Thesis Development Seminar	8		
<i>Stage Total</i>		<i>21</i>	<i>8</i>	<i>5</i>

Year 2

10577	Elective B ² Research Thesis Preparation	5	5	-
-------	--	---	---	---

Year 3 (and subsequent years)

10516	Research Thesis	-	-	-
-------	-----------------	---	---	---

Notes

¹ Research Elective: Select one in consultation with supervisor. For a list of Research Electives see Appendix 1.

² Elective Studies: Full-time students elect to study a total of two electives in the first year in consultation with supervisor:

Part-time students elect to study a total of two electives, one in each year in consultation with supervisor:

**Master of Applied Science
(Behavioural Health Science) by Research**

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

Admission Requirements

Applicants may enter the research masters program with any of the following requirements:

- i) Bachelor degree with a major in anthropology, sociology or psychology;
OR
- ii) Bachelor degree in social work;
OR
- iii) Bachelor degree in a health profession e.g., nursing, occupational therapy, medicine,
OR
- iv) Evidence of general and/or professional qualifications where the prospective candidate can satisfy the Faculty that she or he possesses expertise equivalent to (i), (ii), or (iv).

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

Course Outline

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

Subject Descriptions

10900 Special Program for Qualifying Students

The Special Programs are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

A: Research Electives (8 units) (see Appendix 1)

B: Compulsory Subjects

10577 Research Thesis Preparation

In consultation with the supervisor students will prepare a literature review and thesis design.

10515 Thesis Development Seminar 8 units

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

10516 Research Thesis

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

C: Contract Based Elective Studies: Areas of Supervisory Expertise (5 units)

Semester in which these subjects are likely to be offered is indicated in Appendix 1.

10517 Abnormal Psychology and Mental Health

This elective addresses major psychological disorders and the current classificatory and diagnostic systems available. Critiques of nosologies and taxonomies will be provided and alternative individualised systems of assessment useful for research will be discussed. Detailed consideration of the major philosophical questions underpinning current approaches to psychotherapy will be encouraged, including such concepts as person, personality, mental illness, theories of the origin of mental illness and treatment approaches. A critical review of ethical and legal dilemmas in the practices of psychotherapy will be highlighted.

10518 Behaviour Modification and Cognitive Behavioural Therapy

This elective will cover the basic principles of learning theory and their applications to research in health care settings in conjunction with a theoretical introduction to the use of cognitive behavioural therapy. Students will learn to develop programs based on reinforcement principles, such as operant and classical conditioning, extinction, shaping, maintenance and generalisation of the behaviour, stimulus discrimination training and fading, cognitive behaviour modification and assertiveness training, a behavioural model of somatic disorders and behavioural intervention in rehabilitation.

10519 Biofeedback

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

10520 Cognitive Function in Neurological Disorders

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

10521 Counselling

This elective will cover the major theories of counselling and their applications to health professional practice. Issues related to the role of counselling in the delivery of health care and the ethical and legal implications of a counselling relationship will be addressed. This elective also promotes student self-awareness and exploration of their life histories and interpersonal styles, focusing on the implications of these for relating to and doing research with various client groups.

10522 Critical Thinking

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

10523 Cultural Approaches to Disease and Healing and Ethnographic Analysis

This elective promotes cross-cultural analysis of the relationship between culture, social structure and beliefs and practices relating to the management of illness and disease. Systematic analysis is encouraged of a wide range of empirical material addressing cultural approaches to disease and health from both pre-industrial and contemporary western settings. Possible research issues are covered addressing anthropology's early concern with indigenous belief systems and current post-modern concern with the representation of these beliefs, the ecological and epidemiological aspects of disease, and a broad spectrum of theories of disease etiology, diagnosis and therapy. A transcultural perspective analyses the philosophical

underpinnings of both traditional and contemporary healing systems, and emphasises similarities and differences from the biomedical perspective, and considers the impact of Western medicine on Third World societies. A political economy approach examines health status and level of health care experienced by different populations, and the potential for research into the social, cultural, economic and political conditions of particular regions to understand their relationship with the world capitalist system.

10524 Health Policy and Social Theory

Contemporary social theorists have noted an increase in the rate of policy change in health services. Students will examine possible research topics concerning the determinants and implications of past and present policy changes in health services.

10525 HIV/AIDS: Health and Social Services

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

10526 Introduction to Medical Anthropology

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

10527 Occupational Health and Stress

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

10528 Post Trauma Stress

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

10529 Psychoanalysis, Health, Gender and the Family

This elective considers recent research on the contribution of psychological factors to physical illness, and the differential impact of caring for elderly, ill and disabled persons on different family members. It considers individual

health in the context of family relations (e.g. anorexia), and views the family and gender relations in an historical social context. Critical appraisal of the main types of group therapy and family therapy, transactional analysis, psychodrama, and milieu therapy will be encouraged.

10530 Qualitative Research Analysis

Pre-requisite Qualitative Research Methods (10505)

In this subject students will execute a qualitative research project and write a report of the findings. The subject will focus on conceptualization, social context, proposition testing and theory construction. Use of computer programs for the analysis of data will be discussed.

10531 Research Methods for Medical Anthropologists

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

10532 Social Change and Health Services

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

10533 Social Skills of the Intellectually Disabled

This elective traces research over the last several decades into social skills instruction designed specifically for the intellectually disabled, but also places it into the wider context of social skills research. Special programs for social skills instruction are critically examined.

10534 Social Theory and Special Groups

This elective gives students a basic understanding of social theory. As an example of a special group which might be studied, it examines women's health in the context of social class and gender divisions in Australian Society. Students will be encouraged to consider as research issues patterns and concerns regarding the status of women's health using socialist, feminist and psychoanalytic perspectives. Research into particular ethnic groups and multicultural issues are also within the scope of this elective.

10535 Sociology of Gender Relations

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

10536 Stress and Coping: Social Context and Individual Differences

This elective considers how social context and external factors influence 'stress'. Arguments that the term 'stress' is misleading and that emphasis should be placed on changing external factors or social conditions will be considered. The effects of interpersonal and social relations on health and well-being and factors such as friendship, love and attraction will be considered. Cases of stressors impinging differentially across-varying ages, gender, and socioeconomic

factors and different religious groups are emphasised. In looking at the nature of coping and its effect on stress, the concept of stress mastery is addressed, models of coping compared and contrasted and their relationship to the construction of stress management programs critically evaluated. Individual differences in personality and their effect on coping will be considered, especially with respect to generating research. The research potential of procedures which focus on the modification of stress-related behaviours, such as Type A Behaviour, exercise and smoking, particularly behavioural 'contracting' will also be considered.

10537 Stress and Disability

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

10538 Stress and Illness: Management Issues

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

10539 Stress: Performance, Psychophysiology, and Exceptional Events

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

10540 Visualisation and Imagery

This elective examines a range of techniques of visualisation and imagery that have been used for purposes of healing and performance enhancement. The research literature is reviewed to pinpoint the effects and the effectiveness of the applications, and explores the development of skill in their use.

10553 Computing for Health Practitioners

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

Table 5.2 Master of Behavioural Health Science (By Coursework)

Course

Code Mode of Offer

1007 Full-time, minimum 1 V₂ years or 3 semesters

1008P Part-time, minimum 3 years or 6 semesters

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
	6 Electives (5 units each)	30	30	
	1 Information Technology Elective (2 units)	2	2	
	4 Electives (5 units each)	20		20
	1 Information Technology Elective (2 units)	2		2
10554	Treatise Development Seminar A	10	5	5
	<i>Stage Total</i>	<i>64</i>	<i>37</i>	<i>27</i>

Year 2 (and subsequent years)

10555	Treatise Development Seminar B	5	5	-
10556	Treatise	27	27	
	<i>Stage Total</i>	<i>32</i>	<i>32</i>	<i>-</i>

Part-time Mode

Year 1

	3 Electives (5 units each)	15	15	
	1 Information Technology Elective (2 units)	2	2	
	3 Electives (5 units each)	15		15
	<i>Stage Total</i>	<i>32</i>	<i>17</i>	<i>15</i>

Year 2

	2 Electives (5 units each)	10	10	
	1 Information Technology Elective (2 units)	2	2	
	2 Electives (5 units each)	10		10
10554	Treatise Development Seminar A	10	5	5
	<i>Stage Total</i>	<i>32</i>	<i>17</i>	<i>75</i>

Year 3 (and subsequent years)

10555	Treatise Development Seminar B	5	5	
10556	Treatise	27		27
	<i>Stage Total</i>	<i>32</i>	<i>5</i>	<i>27</i>

Elective Studies (5 units)

- 10517 Abnormal Psychology & Mental Health
- 10518 Behaviour Modification & Cognitive Behavioural Therapy (semester 1 and 2)
- 10519 Biofeedback
- 10520 Cognitive Function in Neurological Disorders
- 10521 Counselling (semester 1 and 2)
- 10522 Critical Thinking
- 10523 Cultural Approaches to Disease and Healing & Ethnographic Analysis (semester 2)
- 10524 Health Policy and Social Theory (semester 2)
- 10525 HIV/AIDS: Health and Social Services (semester 1)
- 10526 Introduction to Medical Anthropology (semester 2)
- 10527 Occupational Health & Stress (semester 1 and 2)
- 10528 Post Trauma Stress (semester 1 and 2)
- 10529 Psychoanalysis, Health, Gender and the Family (semester 2)
- 10530 Qualitative Research Analysis
- 10531 Research Methods for Medical Anthropologists (semester 2)
- 10532 Social Change and Health Services
- 10533 Social Skills of the Intellectually Disabled
- 10534 Social Theory and Special groups

10535	Sociology of Gender Relations
10536	Stress and Coping: Social Context and Individual Differences (semester 2)
10537	Stress and Disability (semester 1 and 2)
10538	Stress and Illness: Management Issues
10539	Stress: Performance, Psychophysiology and Exceptional Events
10540	Visualisation and Imagery (semester 1 and 2)
10553	Computing for Health Practitioners (semester 1 and 2)

Research Electives (8 units) (See Appendix 1)

Information Technology Electives (2 units) (see Appendix 1)

Table 5.3 Graduate Diploma in Behavioural Health Science

Course

Code Mode of Offer

1009 *Full-time, minimum 1 year or 2 semesters*

1010P *Part-time, minimum 2 years or 4 semesters*

Full-time Mode

	Total	Sem 1	Sem 2
<i>Year 1</i>			
6 Electives (5 units each)	30	30	-
1 Information Technology Elective (2 units)	2	2	-
4 Electives (5 units each)	20	-	20
Integrative Paper	10	-	10
1 Information Technology Elective (2 units)	2	-	2
<i>Stage Total</i>	<i>64</i>	<i>32</i>	<i>32</i>

Part-time Mode

<i>Year 1</i>			
3 Electives (5 units each)	15	15	-
1 Information Technology Elective (2 units)	2	2	-
3 Electives (5 units each)	15	-	15
<i>Stage Total</i>	<i>32</i>	<i>17</i>	<i>15</i>

Year 2

3 Electives (5 units each)	15	15	-
1 Information Technology Elective (2 units)	2	2	-
1 Elective (5 units)	5	-	5
Integrative Paper	10	-	10
<i>Stage Total</i>	<i>32</i>	<i>17</i>	<i>15</i>

Elective Studies (5 units)

10517	Abnormal Psychology & Mental Health
10518	Behaviour Modification & Cognitive Behavioural Therapy (semester 1 and 2)
10519	Biofeedback
10520	Cognitive Function in Neurological Disorders
10521	Counselling (semester 1 and 2)
10522	Critical Thinking
10523	Cultural Approaches to Disease and Healing & Ethnographic Analysis (semester 2)
10524	Health Policy and Social Theory (semester 2)
10525	HIV/AIDS: Health and Social Services (semester 1)
10526	Introduction to Medical Anthropology (semester 2)
10527	Occupational Health & Stress (semester 1 and 2)
10528	Post Trauma Stress (semester 1 and 2)
10529	Psychoanalysis, Health, Gender and the Family (semester 2)
10530	Qualitative Research Analysis
10531	Research Methods for Medical Anthropologists (semester 2)
10532	Social Change and Health Services
10533	Social Skills of the Intellectually Disabled

10534	Social Theory and Special groups
10535	Sociology of Gender Relations
10536	Stress and Coping: Social Context and Individual Differences (semester 2)
10537	Stress and Disability (semester 1 and 2)
10538	Stress and Illness: Management Issues
10539	Stress: Performance, Psychophysiology and Exceptional Events
10540	Visualisation and Imagery (semester 1 and 2)
10553	Computing for Health Practitioners (semester 1 and 2)

Research Electives (8 units) (See Appendix 1)

Information Technology Electives (2 units) (see Appendix 1)

Table 5.4 Graduate Certificate in Behavioural Health Science

Course

Code *Mode of Offer*

1011 *Full-time, minimum 1/2 year or 1 semester*

1012P *Part-time, minimum 1 year or 2 semesters*

Full-time Mode

	Total	Sem 1	Sem 2
<i>Year 1</i>			
6 Electives (5 units each)	30	30	
1 Information Technology Elective	2	2	
	<i>Stage Total</i>	<i>32</i>	<i>32</i>

Part-time Mode

<i>Year 1</i>			
3 Electives (5 units each)	15	15	
1 Information Technology Elective	2	2	
3 Electives (5 units each)	15		15
	<i>Stage Total</i>	<i>32</i>	<i>17</i>
			<i>15</i>

Elective Studies (5 units)

10517	Abnormal Psychology & Mental Health
10518	Behaviour Modification & Cognitive Behavioural Therapy (semester 1 and 2)
10519	Biofeedback
10520	Cognitive Function in Neurological Disorders
10521	Counselling (semester 1 and 2)
10522	Critical Thinking
10523	Cultural Approaches to Disease and Healing & Ethnographic Analysis (semester 2)
10524	Health Policy and Social Theory (semester 2)
10525	HIV/AIDS: Health and Social Services (semester 1)
10526	Introduction to Medical Anthropology (semester 2)
10527	Occupational Health & Stress (semester 1 and 2)
10528	Post Trauma Stress (semester 1 and 2)
10529	Psychoanalysis, Health, Gender and the Family (semester 2)
10530	Qualitative Research Analysis
10531	Research Methods for Medical Anthropologists (semester 2)
10532	Social Change and Health Services
10533	Social Skills of the Intellectually Disabled
10534	Social Theory and Special groups
10535	Sociology of Gender Relations
10536	Stress and Coping: Social Context and Individual Differences (semester 2)
10537	Stress and Disability (semester 1 and 2)
10538	Stress and Illness: Management Issues
10539	Stress: Performance, Psychophysiology and Exceptional Events
10540	Visualisation and Imagery (semester 1 and 2)
10553	Computing for Health Practitioners (semester 1 and 2)

Research Electives (8 units) (See Appendix 1)

Information Technology Electives (2 units) (see Appendix 1)

**Master of Behavioural Health Science,
Graduate Diploma Behavioural Health Science,
Graduate Certificate Behavioural Health Science
(by Coursework)**

The Master of Behavioural Science, Graduate Diploma of Behavioural Science and Graduate Certificate of Behavioural Science by coursework will allow students to gain considerable contemporary knowledge in the disciplines of psychology, sociology, and anthropology and their application to health behaviour and health issues. The courses aim to produce health professionals who are aware of and can critically evaluate and integrate into their work practice culturally relevant, scientific, and methodologically sound research evidence. It is aimed at those who have some background in the health professions and/or relevant disciplines who wish to further their studies in an interdisciplinary manner. The electives give the student the opportunity to develop discipline-based knowledge and research skills (including qualitative and quantitative data analysis) in the context of teachers who are conversant with the relevance of the behavioural sciences to issues of health care, illness and stress, the importance of counselling skills for health professionals, and the historical and changing role of health professions in the context of our culture, adjacent nations, Europe, and the U.S.A. There are no core subjects specified; electives are chosen by the student. Masters students will choose their electives in consultation with the supervisor of their research treatise. Where a student can demonstrate mastery, credit transfer for portions of the coursework may be possible on application from the student and with the support of the supervisor.

Admission Requirements

Applicants may enter the research masters program with any of the following requirements:

- i) Bachelor degree with a major in anthropology, sociology or psychology;
OR
- ii) Bachelor degree in social work;
OR

- iii) Bachelor degree in a health profession e.g., nursing, occupational therapy, medicine,
OR
- iv) Evidence of general and/or professional qualifications where the prospective candidate can satisfy the Faculty that she or he possesses expertise equivalent to (i), (ii), or (iv).

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

Course Outlines

The Course Outline for the Master of Behavioural Health Science is presented in Table 5.2, the Course Outline for the Graduate Diploma of Behavioural Health Science is presented in Table 5.3, and the Course Outline for the Graduate Certificate of Behavioural Health Science is presented in Table 5.4.

Credit Transfer

Students who have completed the Graduate Certificate of Behavioural Health Science will receive full credit (50%) towards the Graduate Diploma of Behavioural Health Science. Students who have completed the Graduate Diploma of Behavioural Health Science will receive full credit (67%) toward the Master of Behavioural Health Science. Transfer to a research masters degree must occur via advanced standing mechanisms. Consideration of credit transfer follows existing Faculty policy as outlined in this Handbook.

Subject Descriptions

Subject descriptions for the research electives and elective studies are the same as those described in this handbook under the Master of Applied Science (Behavioural Health Science) (by Research). Research electives are 8 units each and students are entitled to choose one or more of these if they wish.

Table 5.5 Master of Child and Adolescent Health (By Coursework)

<i>Course Code</i>		<i>Mode of Offer</i>			
1013		Full-time, minimum 1 Hyears or 3 semesters			
1014P		Part-time, minimum 3 years or 6 semesters			
Full-time Mode			Total	Sem 1	Sem 2
<i>Year 1</i>					
		6 Electives (5 units each)	30	30	-
		1 Information Technology Elective (2 units)	2	2	-
		4 Electives (5 units each)	20	-	20
		1 Information Technology Elective (2 units)	2	-	2
10554		Treatise Development Seminar A	10	5	5
<i>Stage Total</i>			<i>64</i>	<i>37</i>	<i>27</i>

Year 2 (and subsequent years)

10555	Treatise Development Seminar B	5	5	-
10556	Treatise	27	27	-
<i>Stage Total</i>		32	32	-

Part-time Mode

Year 1

	3 Electives (5 units each)	15	15	-
	1 Information Technology Elective (2 units)	2	2	-
	3 Electives (5 units each)	15	-	15
<i>Stage Total</i>		32	17	15

Year 2

	2 Electives (5 units each)	10	10	-
	1 Information Technology Elective (2 units)	2	2	-
	2 Electives (5 units each)	10	-	10
10554	Treatise Development Seminar A	10	5	5
<i>Stage Total</i>		32	17	15

Year 3 (and subsequent years)

10555	Treatise Development Seminar B	5	5	-
10556	Treatise	27	-	27
<i>Stage Total</i>		32	5	27

Elective Studies (5 units)

10463	Social Psychology (semester 1)
10517	Abnormal Psychology & Mental Health
10518	Behaviour Modification & Cognitive Behavioural Therapy (semester 1 and 2)
10519	Biofeedback
10520	Cognitive Function in Neurological Disorders
10521	Counselling (semester 1 and 2)
10522	Critical Thinking
10523	Cultural Approaches to Disease and Healing & Ethnographic Analysis (semester 2)
10524	Health Policy and Social Theory (semester 2)
10525	HIV/AIDS: Health and Social Services (semester 1)
10526	Introduction to Medical Anthropology (semester 2)
10527	Occupational Health & Stress (semester 1 and 2)
10528	Post Trauma Stress (semester 1 and 2)
10529	Psychoanalysis, Health, Gender and the Family (semester 2)
10530	Qualitative Research Analysis
10531	Research Methods for Medical Anthropologists (semester 2)
10532	Social Change and Health Services
10533	Social Skills of the Intellectually Disabled
10534	Social Theory and Special groups
10535	Sociology of Gender Relations
10536	Stress and Coping: Social Context and Individual Differences (semester 2)
10537	Stress and Disability (semester 1 and 2)
10538	Stress and Illness: Management Issues
10539	Stress: Performance, Psychophysiology and Exceptional Events
10540	Visualisation and Imagery (semester 1 and 2)
10553	Computing for Health Practitioners (semester 1 and 2)
10557	Violence Against Children and Adolescents - in context (semester 1)
10558	Contemporary Issues in Childhood and Adolescence (semester 1)
10559	Therapy with Children, Adolescents and their families
10560	Child and Adolescent Assessment: Psychosocial and Legal Issues (semester 1)
10561	Young People and Social Control in Australia
10562	The Sociology of Deviance (semester 1)
10563	Sociology of Community and Family (semester 1 and 2)
10564	Psychology of Child Development and Adjustment
10565	Psychology of Adolescent Development and Adjustment (semester 1 and 2)
10566	Subcultural and Cross Cultural Issues: The Costs of Marginality

10567	Health and Cultural Pluralism	-
10568	HIV/AIDS: Health and Social Services	
134A4	Family and Early Childhood Nursing I (semester 1)	
134B1	Family and Early Childhood Nursing II (semester 2)	

Research Electives (8 units) (See Appendix 1)

Information Technology Electives (2 units) (see Appendix 1)

Table 5.6 Graduate Diploma in Child and Adolescent Health

Course

Code Mode of Offer

1015 *Full-time, minimum 1 year or 2 semesters*

1016P *Part-time, minimum 2 years or 4 semesters*

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
6 Electives (5 units each)		30	30	-
1 Information Technology Elective (2 units)		2	2	
4 Electives (5 units each)		20	-	20
Integrative Paper		10	-	10
1 Information Technology Elective (2 units)		2	-	2
	<i>Stage Total</i>	64	32	32

Part-time Mode

Year 1

3 Electives (5 units each)		15	15	-
1 Information Technology Elective (2 units)		2	2	-
3 Electives (5 units each)		15	-	15
	<i>Stage Total</i>	32	17	15

Year 2

3 Electives (5 units each)		15	15	-
1 Information Technology Elective (2 units)		2	2	-
1 Elective (5 units)		5	-	5
Integrative Paper		10	-	10
	<i>Stage Total</i>	32	17	15

Elective Studies (5 units)

10463	Social Psychology (semester 1)
10517	Abnormal Psychology & Mental Health
10518	Behaviour Modification & Cognitive Behavioural Therapy (semester 1 and 2)
10519	Biofeedback
10520	Cognitive Function in Neurological Disorders
10521	Counselling (semester 1 and 2)
10522	Critical Thinking
10523	Cultural Approaches to Disease and Healing & Ethnographic Analysis (semester 2)
10524	Health Policy and Social Theory (semester 2)
10525	HIV/AIDS: Health and Social Services (semester 1)
10526	Introduction to Medical Anthropology (semester 2)
10527	Occupational Health & Stress (semester 1 and 2)
10528	Post Trauma Stress (semester 1 and 2)
10529	Psychoanalysis, Health, Gender and the Family (semester 2)
10530	Qualitative Research Analysis
10531	Research Methods for Medical Anthropologists (semester 2)
10532	Social Change and Health Services
10533	Social Skills of the Intellectually Disabled
10534	Social Theory and Special groups
10535	Sociology of Gender Relations

10536	Stress and Coping: Social Context and Individual Differences (semester 2)
10537	Stress and Disability (semester 1 and 2)
10538	Stress and Illness: Management Issues
10539	Stress: Performance, Psychophysiology and Exceptional Events
10540	Visualisation and Imagery (semester 1 and 2)
10553	Computing for Health Practitioners (semester 1 and 2)
10557	Violence Against Children and Adolescents - in context (semester 1)
10558	Contemporary Issues in Childhood and Adolescence (semester 1)
10559	Therapy with Children, Adolescents and their families
10560	Child and Adolescent Assessment: Psychosocial and Legal Issues (semester 1)
10561	Young People and Social Control in Australia
10562	The Sociology of Deviance (semester 1)
10563	Sociology of Community and Family (semester 1 and 2)
10564	Psychology of Child Development and Adjustment
10565	Psychology of Adolescent Development and Adjustment (semester 1 and 2)
10566	Subcultural and Cross Cultural Issues: The Costs of Marginality
10567	Health and Cultural Pluralism
10568	HIV/AIDS: Health and Social Services
134A4	Family and Early Childhood Nursing I (semester 1)
134B1	Family and Early Childhood Nursing II (semester 2)

Research Electives (8 units) (See Appendix 1)

Information Technology Electives (2 units) (see Appendix 1)

Table 5.7 Graduate Certificate in Child and Adolescent Health

Course

Code Mode of Offer

1017 Full-time, minimum 2 year or 1 semester

1018P Part-time, minimum 1 year or 2 semesters

Full-time Mode

	Total	Sem 1	Sem 2
<i>Year 1</i>			
6 Electives (5 units each)	30	30	-
1 Information Technology Elective (2 units)	2	2	
<i>Stage Total</i>	32	32	

Part-time Mode

<i>Year 1</i>			
3 Electives (5 units each)	15	15	
1 Information Technology Elective (2 units)	2	2	
3 Electives (5 units each)	15		15
<i>Stage Total</i>	32	77	15'

Elective Studies (5 units)

10463	Social Psychology (semester 1)
10517	Abnormal Psychology & Mental Health
10518	Behaviour Modification & Cognitive Behavioural Therapy (semester 1 and 2)
10519	Biofeedback
10520	Cognitive Function in Neurological Disorders
10521	Counselling (semester 1 and 2)
10522	Critical Thinking
10523	Cultural Approaches to Disease and Healing & Ethnographic Analysis (semester 2)
10524	Health Policy and Social Theory (semester 2)
10525	HIV/AIDS: Health and Social Services (semester 1)
10526	Introduction to Medical Anthropology (semester 2)
10527	Occupational Health & Stress (semester 1 and 2)
10528	Post Trauma Stress (semester 1 and 2)
10529	Psychoanalysis, Health, Gender and the Family (semester 2)
10530	Qualitative Research Analysis

10531	Research Methods for Medical Anthropologists (semester 2)
10532	Social Change and Health Services
10533	Social Skills of the Intellectually Disabled
10534	Social Theory and Special groups
10535	Sociology of Gender Relations
10536	Stress and Coping: Social Context and Individual Differences (semester 2)
10537	Stress and Disability (semester 1 and 2)
10538	Stress and Illness: Management Issues
10539	Stress: Performance, Psychophysiology and Exceptional Events
10540	Visualisation and Imagery (semester 1 and 2)
10553	Computing for Health Practitioners (semester 1 and 2)
10557	Violence Against Children and Adolescents - in context (semester 1)
10558	Contemporary Issues in Childhood and Adolescence (semester 1)
10559	Therapy with Children, Adolescents and their families
10560	Child and Adolescent Assessment: Psychosocial and Legal Issues (semester 1)
10561	Young People and Social Control in Australia
10562	The Sociology of Deviance (semester 1)
10563	Sociology of Community and Family (semester 1 and 2)
10564	Psychology of Child Development and Adjustment
10565	Psychology of Adolescent Development and Adjustment (semester 1 and 2)
10566	Subcultural and Cross Cultural Issues: The Costs of Marginality
10567	Health and Cultural Pluralism
10568	HIV/AIDS: Health and Social Services
134A4	Family and Early Childhood Nursing I (semester 1)
134B1	Family and Early Childhood Nursing II (semester 2)

Research Electives (8 units) (See Appendix 1)

Information Technology Electives (2 units) (see Appendix 1)

**Master of Child and Adolescent Health,
Graduate Diploma in Child and Adolescent
Health, Graduate Certificate of Child and
Adolescent Health
(by Coursework)**

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

supervisor of their research treatise. Where a student can demonstrate mastery, credit transfer for portions of the coursework may be possible on application from the and with the support of the supervisor.

Admission Requirements

Applicants may enter the research masters program with any of the following requirements:

- i) Bachelor degree with a major in anthropology, sociology or psychology;
OR
- ii) Bachelor degree in social work;
OR
- iii) Bachelor degree in a health profession e.g., nursing, occupational therapy, medicine,
OR
- iv) Evidence of general and/or professional qualifications where the prospective candidate can satisfy the Faculty that she or he possesses expertise equivalent to (i), (ii), or (iv).

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

Course Outlines

The Course Outline for the Master of Child and Adolescent Health is presented in Table 5.5, the Course Outline for the Graduate Diploma in Child and Adolescent Health is presented in Table 5.2, and the Course Outline for the Graduate Certificate in Child and Adolescent Health is presented in Table 5.7.

Credit Transfer

Students who have completed the Graduate Certificate in Child and Adolescent Health will receive full credit (50%) towards the Graduate Diploma in Child and Adolescent Health. Students who have completed the Graduate Diploma in Child and Adolescent Health will receive full credit (67%) toward the Master of Child and Adolescent Health. Transfer to a research masters degree must occur via advanced standing mechanisms. Consideration of credit transfer follows existing Faculty policy as outlined in this Handbook.

Subject Descriptions

Students are entitled to take any research electives offered in the Master of Applied Science (Behavioural Health Science) (by Research) outlined in this handbook. The research electives are 8 units each.

A. Existing Electives

- 10463 Social Psychology
- 10553 Computing for Health Practitioners

B. New Electives (5 units)

10557 Violence Against Children and Adolescents - in context

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

10558 Contemporary Issues In Childhood and Adolescence

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

10559 Therapy with Children, Adolescents and their Families

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

10560 Child and Adolescent Assessment: Psychosocial and Legal Issues

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

10561 Young People and Social Control in Australia

This subject examines how the 'space' occupied by young people in Australia has been subject to even greater social control in recent years. Under the banners of 'skill formation' and 'law and order', Government policies have been directed at curbing the autonomous activities of young working class men and women and enforcing particular kinds of conforming behaviour. Any attempts by young people to win for themselves more freedom of movement and action have been met with concerted effort to tighten control.

10562 The Sociology of Deviance

This subject will use the paradigms developed by the theoretical approach to the sociology of deviance to examine adolescent behaviour in relation to substance abuse, homelessness and other non-traditional lifestyles. This subject will incorporate an historical approach to community breakdown, social control, the effects of media imagery and the changing approaches of social control agents such as governments, the legal system, law enforcement officers and medical personnel. An analysis of legislation and of royal commission findings will be made using structural and interactional theories.

10563 Sociology of Community and Family

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

10564 Psychology of Child Development and Adjustment

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

10565 Psychology of Adolescent Development and Adjustment

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

10566 Subcultural and Cross Cultural Issues: The Costs of Marginality

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

10567 Health and Cultural Pluralism

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

10568 HIV/AIDS: Health and Social Services

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

C. Research Electives (8 units) (see Appendix 1)**D. Information Technology Electives (2 units) (see Appendix 1)**

6 Department of Biomedical Science

The Department of Biomedical Sciences incorporates biophysics, biochemistry, basic biology, human anatomy and physiology, pathophysiology, microbiology, applied physiology, and biomechanics. The teaching profile of the Department is reflected in terms of its academic governance, whereby, it is subdivided into five Divisions: Anatomy, Physiology, Biophysics and Biochemistry, Applied Physiology, and Biomechanics. 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. From 1996

the Department will offer a Bachelor of Applied Science (Exercise and Sport Science) program. Additionally, 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 programs which include: Master of Applied Sciences (Human Biomedical Sciences) by Research, Master of Exercise and Sports Sciences by Coursework, Master of Applied Science (Exercise and Sports Sciences) by Research, and Graduate Diploma in Exercise and Sports Sciences. In addition, PhD supervision is available in various areas of staff research expertise.

Summary of Biomedical Sciences Subjects

Number	Name	School/Department	Page(s)
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.....	8-14
11176	Introductory Human Biology	Communication Disorders.....	7-5
		Occupational Therapy.....	11-9
		Orthoptics.....	12-3
11177	Musculoskeletal Anatomy	Occupational Therapy.....	11-9
11178	Introductory Neurobiology	Communication Disorders.....	7-5
		Occupational Therapy.....	11-9
		Orthoptics.....	12-3
11179	Neurobiology I	Communication Disorders.....	7-5
		Occupational Therapy.....	11-9
		Orthoptics.....	12-3
11180	Optics I	Orthoptics.....	12-3
11181	Body Systems I	Communication Disorders.....	7-5
		Orthoptics.....	12-3
11182	Optics H	Orthoptics.....	12-3
11183	Biological Sciences I	Occupational Therapy.....	11-3
11184	Biological Sciences I	Community Health.....	8-8
11185	Mechanisms of Movement	Biomedical Sciences.....	6-4
11186	Body Structure, Homeostasis & Movement	Biomedical Sciences.....	6-4
11187	Molecules, Food and Energy	Biomedical Sciences.....	6-4
11188	Muscle Mechanics	Biomedical Sciences.....	6-4
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
11194	Mechanisms of Injury	Biomedical Sciences.....	6-5
11195	Fitness Appraisal	Biomedical Sciences.....	6-5
11196	Sport First Aid	Biomedical Sciences.....	6-5
11197	Sport, Exercise and the Law	Biomedical Sciences.....	6-5
11198	Health Centre Management	Biomedical Sciences.....	6-5
11199	Improving Sport Coaching	Biomedical Sciences.....	6-5
111A0	Resistance Training	Biomedical Sciences.....	6-5
111A2	Video Performance Analysis	Biomedical Sciences.....	6-5

111A1	Exercise Programming		Biomedical Sciences.....	6-5
111A3	Fundamental Computer Skills.		Biomedical Sciences.....	6-5
111A4	Data Management and Presentation		Biomedical Sciences.....	6-5
11283	Basic Human Biology II		Health Information Management.....	9-5
11286	Body Systems II		Physiotherapy.....	13-5
11287	Neurobiology II		Physiotherapy.....	13-5
11288	Biomechanics		Physiotherapy.....	13-5
112A2	Biological Science II		Community Health.....	8-14
112A7	Neurobiology II		Occupational Therapy.....	11-10
112A8	BodySystemsI		Occupational Therapy.....	11-10
112A9	Biomechanics for Occupational Therapy		Occupational Therapy.....	11-10
112B1	Introductory Pathology		Orthoptics.....	12-4
112B2	Ocular Biology		Orthoptics.....	12-4
112B3	Neurobiology II for Communication Disorders		Communication Disorders.....	7-6
112B4	Visual Neurobiology		Orthoptics.....	12-4
112B5	Pathophysiology		Medical Radiation Technology.....	10-4
112B6	Tumour Pathology		Medical Radiation Technology.....	10-4
112B7	Biological Sciences II		Occupational Therapy.....	11-4
112B8	Biological Sciences II		Community Health.....	8-8
11374	Body Systems	III	Physiotherapy.....	13-6
11375	Applied Physiology		Physiotherapy.....	13-6
11381	Biological Sciences	III	Community Health.....	8-14
11382	Body Systems II		Occupational Therapy.....	11-11
11384	Neurology for Communication Disorders		Communication Disorders.....	7-7
11385	Biological Sciences	III	Occupational Therapy.....	11-6
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
11408	Ocular Motility Disorders II		Orthoptics.....	12-5
11426	Biomechanics I		Biomedical Sciences.....	6-7
11427	Exercise and Rehabilitation I		Biomedical Sciences.....	6-7
11429	Applied Physiology I		Biomedical Sciences.....	6-7
			Physiotherapy.....	13-16,13-25
11433	Health, Dysfunction and Ageing		Appendix 1.....	A-8
11435	Biomechanics II		Biomedical Sciences.....	6-7
11436	Applied Physiology II		Biomedical Sciences.....	6-7
			Physiotherapy.....	13-16,13-25
11438	Research Project		Biomedical Sciences.....	6-10
11439	Applied Physiology	III	Biomedical Sciences.....	6-10
11439	Applied Physiology III		Biomedical Sciences.....	6-12
11440	Biomechanics	III	Biomedical Sciences.....	6-10
			Biomedical Sciences.....	6-12
11441	Exercise and Rehabilitation II		Biomedical Sciences.....	6-7
11442	Functional Anatomy		Biomedical Sciences.....	6-8
11448	Research Thesis B		Biomedical Sciences.....	6-12
11453	Physical Interface Specialisations		Appendix 1.....	A-8
11454	Biological Science		Medical Radiation Technology.....	10-11
11455	Anatomy and Biomechanics A		Physiotherapy.....	13-12,13-25
11456	Anatomy and Biomechanics B		Physiotherapy.....	13-12,13-25
11457	Neurophysiology and Pharmacology		Physiotherapy.....	13-12
11458	Clinical Exercise Testing and Athlete Assessment		Biomedical Sciences.....	6-8
11459	Exercise Prescription and Practice		Biomedical Sciences.....	6-8
11460	Sports Nutrition		Biomedical Sciences.....	6-8
11461	Clinical Biomechanics		Biomedical Sciences.....	6-8
11461	Clinical Biomechanics		Physiotherapy.....	13-16,13-25
11462	Project Proposal		Biomedical Sciences.....	6-10
11463	Project Workshop		Biomedical Sciences.....	6-10
11465	Applied Physiology		Occupational Therapy.....	11-12
11466	Visual Science		Orthoptics.....	12-5
11468	Mechanics of Human Movement		Physiotherapy.....	13-16,13-25
11468	Mechanics of Human Movement		Appendix 1.....	A-8
11469	Occupational Biomechanics		Appendix 1.....	A-8
11470	Functional Anatomy		Physiotherapy.....	13-16

11476	Biological Sciences	Medical Radiation Technology.....	10-13
11480	Advanced Respiratory Physiology	Physiotherapy.....	13-25
11481	Cardiopulmonary Anatomy	Physiotherapy.....	13-26
11482	Advanced Cardiovascular Physiology	Physiotherapy.....	13-26
11486	Research Thesis A	Biomedical Sciences.....	6-12
11501	Biological Measurement and Analysis	Appendix 1.....	A-10
11502	Biological Aspects of Ageing	Community Health.....	8-29
11503	Thesis Workshop I	Biomedical Sciences.....	6-12
11504	Thesis Workshop II	Biomedical Sciences.....	6-13
11505	Thesis Workshop III	Biomedical Sciences.....	6-13
11507	Thesis Workshop I	Biomedical Sciences.....	6-14
11508	Thesis Workshop II	Biomedical Sciences.....	6-14
11509	Research Thesis B	Biomedical Sciences.....	6-14
11510	Thesis Workshop III	Biomedical Sciences.....	6-14
11511	Research Thesis A	Biomedical Sciences.....	6-14
11512	Biological Measurement and Analysis	Appendix 1.....	A-10
11900	Special Program - Exercise and Sport Sciences	Biomedical Sciences.....	6-13, 6-14

Table 6.1 Bachelor of Applied Science (Exercise and Sport Science)

<i>Course</i>				
<i>Code</i>	<i>Mode of Offer</i>			
1118	Pass Program - 3 years full-time			
1119	Honours Program - 4 years full-time			
		Total	Sem 1	Sem 2
<i>Year 1</i>				
101C6	Psychosocial Aspects of Recreation and Sport	56	56	
11185	Mechanisms of Movement	56	56	
11186	Body Structure, Homeostasis and Movement	112	56	56
11187	Molecules, Food and Energy	56	56	
11188	Muscle Mechanics	56		56
11194	Mechanisms of Injury	56		56
	Selected Studies (6 x 28 hours)*	168	56	112
		<i>Stage Total</i>	308	252
<i>Year 2 (to be offered from 1997)</i>				
102B0	Behaviour Modification and Adherence	56		56
112C0	Growth, Development & Ageing	56	56	
112C1	Motor Control and Learning	112	56	56
112C2	Biochemistry of Exercise	56	56	
112C3	Quantitative Biomechanics	56		56
112C4	Exercise Physiology I	112	56	56
112C5	Kinesiology & Applied Anatomy	56	56	
112C6	Sport Pharmacology*			
112C7	Hormones, Metabolism & Exercise*			
	Behavioural Elective*			
<i>Year 3 (to be offered from 1998)</i>				
11389	Exercise Physiology II	56	56	
11390	Exercise Testing & Prescription	112	56	56
11391	Advanced Topics in Biomechanics	112	56	56
11392	Occupational Biomechanics*			
11393	Nutrition & Sport Performance*			
11394	Research Methods	56	56	
11395	Readings and Conference*			
11396	Exercise & Rehabilitation	112	56	56
		<i>Stage Total</i>	616	
<i>Year 4 (Honours Program) (to be offered from 1999)</i>				
11487	Hpnours Thesis	-	-	-

Notes

* To fulfil the requirements of the course students are required to complete a total of three of the 56 hour subjects indicated by an asterisk. (One in year 2 and two in year 3)

Students are required to complete six of the following selected studies

Selected Studies¹

11195	Fitness Appraisal (28 hours)
11196	Sport First Aid (28 hours)
11197	Sport, Exercise and the Law (28 hours)
11198	Health Centre Management (28 hours)
11199	Improving Sport Coaching (28 hours)
111A0	Resistance Training (28 hours)
111A1	Exercise Programming (28 hours)
111A2	Video Performance Analysis (28 hours)
111A3	Fundamental Computer Skills (28 hours)
111A4	Data Management & Presentation (28 hours)

¹ The offering of any one of these selected studies will depend on sufficient student demand.

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 will cover 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.

11185 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.

11186 Body Structure, Homeostasis & Movement

Semester 1-56 hours

Semester 2- 56 hours

Co-requisites Molecules, Food and Energy; Mechanisms of Movement; Muscle Mechanics

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 will provide students with a fundamental understanding of the nature of specific biologically important molecules, and their reactions. Students will learn how energy is transferred from fuels in order to allow energy-consuming processes, such as exercise, to proceed. This will be 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 will 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.

11188 Muscle Mechanics

Semester 2 - 56 hours

Co-requisite Body Structure, Homeostasis & Movement

This subject will provide 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 will be 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 will introduce 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.

11194 Mechanisms of Injury

Semester 2 - 56 hours

Co-requisite Body Structure, Homeostasis & Movement

This subject will provide 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 are 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 will address 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

11195 Fitness Appraisal

Semester 1/2 - 28 hours

This subject is designed to provide the student 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 the student will be able to administer graded exercise tests, prescribe individualised exercise routines and demonstrate competent supervision of exercise

11196 Sport First Aid

Semester 1/2 - 28 hours

This subject aims to provide the student with appropriate skills and training for the effective initial management of sport injury situations. On completion of the subject the student 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,

11197 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 unit aims to provide some fundamental knowledge in this provision of care. On completion of this subject the student will be able to demonstrate legal understanding concerned with the duty of care, the intake, prescription and sale of banned substances, and the duty of care whilst prescribing and supervising exercise programs.

11198 Health Centre Management

Semester 1/2 - 28 hours

This unit 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.

11199 Improving Sport Coaching

Semester 1/2 - 28 hours

Through an understanding of coaching principles, this unit is aimed at improving the coaching practices and techniques of either the novice or the experienced coach. On completion of this subject the student will be able to prescribe effective training programs, understand the concept of periodisation and performance effects, and implement both macro and micro training programs.

111AO Resistance Training

Semester 1/2 - 28 hours

This subject is designed to provide the student with the required understanding of the principles and application of strength training. On completion of this subject the student will be able to understand the physiological basis of resistance training, structure an effective resistance training program, and provide strategies to facilitate compliance.

111A1 Exercise Programming

Semester 1/2 - 28 hours

Exercise adherence is essential for the effective execution of any exercise program. This unit 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 the student will understand basic training principles, implement effective training protocols, and learn motivational techniques.

111A2 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.

111A3 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.

Table 6.2 Graduate Diploma in Exercise and Sport Sciences

Course

Code	Mode of Offer
1112V	Full-time, 1 Year
1113P	Part-time, 2 Years

Part-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
10459	Motor Learning	4	-	4
11426	Biomechanics I	8	8	-
11429	Applied Physiology I	8	8	-
11435	Biomechanics II	6	-	6
11436	Applied Physiology II	6	-	6
<i>Stage Total</i>		32	16	16
<i>Year 2</i>				
10461	Research Methods	4	4	-
11427	Exercise and Rehabilitation I	4	4	-
<i>Sports Science Strand</i>				
10460	Psychosocial Aspects of Sport	4	-	4
11458	Clinical Exercise Testing and Athlete Assessment	8	8	-
11459	Exercise Prescription and Practice	8	-	8
11460	Sports Nutrition	4	-	4
OR				
<i>Exercise Rehabilitation Science Strand^{<1>}</i>				
11441	Exercise and Rehabilitation II	4	-	4
11442	Functional Anatomy	8	-	8
11461	Clinical Biomechanics	4	-	4
<i>Stage Total</i>		32		

Notes

- " Students undertaking the Exercise Rehabilitation Science Strand are required to select an additional subject (or group of subjects) of 8 units duration from the Sports Science Strand.
- "" Students completing the Graduate Diploma in Exercise and Sport Sciences with a credit grade average, may apply to proceed to the Master of Exercise and Sport Sciences.
- "" The availability of second year subjects will be dependent upon student demand and availability of academic staff and resources.

Graduate Diploma in Exercise and Sport Sciences

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

Admission Requirements

A Pass Entry Level

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

B Honours Entry Level

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

C Special Circumstances

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

D Qualifying Statement

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

Course Outline

The Course Outline for the Graduate Diploma in Exercise and Sport Sciences is presented in Table 6.2.

Subject Descriptions

10459 Motor Learning

Semester 2 - 4 units

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

10460 Psychosocial Aspects of Sport

Semester 2 - 4 units

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

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

10461 Research Methods

Semester 1-4 units

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

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

11426 Biomechanics I

Semester 1-8 units

This subject will provide basic biomechanical concepts and skills required for the analysis of human movement. Principles of kinematics, kinetics and electromyography will be studied with reference to selected motor activities. Laboratory sessions will be used to provide illustrations of the above principles and to give students experience with biomechanical laboratory techniques.

11427 Exercise and Rehabilitation I

Semester 1 - 4 units

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

11429 Applied Physiology I

Semester 1 - 8 units

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

11435 Biomechanics II

Semester 2 - 6 units

Pre-requisite Biomechanics I (11426)

This subject extends the foundation concepts and skills developed in Biomechanics I. Specific topics such as electromyography in dynamic muscle movements, fluid mechanics, projectile motion, mechanical energy distribution, and mechanics of implements will be studied in the context of specific motor activities.

11436 Applied Physiology II

Semester 2- 6 units

Pre-requisite Applied Physiology I (11429)

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

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

11441 Exercise and Rehabilitation II

Semester 2 - 4 units

Pre or Co-requisites Applied Physiology II (11436), Biomechanics II (11435), Exercise and Rehabilitation I (11427)

Students in this subject will be exposed to current trends in selected areas of rehabilitation. This approach will include an examination of the physiological and psychological basis of rehabilitation including appropriate clinical management.

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

11442 Functional Anatomy

Semester 2 - 8 units

Pre-requisite An appropriate accredited course in Anatomy

This subject aims to investigate the relationship between anatomical structure and function, particularly as it relates to the body during exercise.

This subject has two sections:

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

11458 Clinical Exercise Testing and Athlete Assessment

Semester 1-8 units

This unit will cover the basic principles of exercise testing applied to healthy, asymptomatic individuals, clinical and disabled patients and athletic populations. Topics covered include:

- i) graded exercise testing for healthy, asymptomatic adults
- ii) laboratory and field fitness testing for sports participants and elite athletes
- iii) cardiopulmonary stress testing for symptomatic patients with cardiac disease, respiratory and central or peripheral neuropathic dysfunction
- iv) laboratory and field testing of asymptomatic, disabled individuals
- v) interpretation of exercise electrocardiograms and advanced techniques of cardiovascular assessment
- vi) assessment of muscular strength, muscular endurance and anaerobic power in clinical, healthy or athletic populations.

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

11459 Exercise Prescription and Practice

Semester 2-8 units

Pre or Co-requisite Applied Physiology II (11436)

This unit develops the concept of exercise training as potentially beneficial to cardiovascular fitness and muscular strength in healthy individuals, symptomatic patients or disabled populations. Topics covered include:

- i) ' principles of exercise prescription in healthy, asymptomatic adults
- ii) exercise training for sports participants and elite athletes
- iii) modifications of exercise prescription for clinically symptomatic individuals including cardiac patients, pulmonary disease patients and persons with central or peripheral neuropathic dysfunction
- iv) modifications of exercise prescription for disabled individuals
- v) special considerations for exercise training in women, elderly adults and children

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

11460 Sports Nutrition

Semester 2 - 4 units

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

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

11461 Clinical Biomechanics

Semester 2 - 4 units

Pre-requisite Biomechanics II (11435)

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

Table 6.3 Master of Exercise and Sport Sciences by Coursework

Course

Code	Mode of Offer
1110	Full-time, 1.5 Years
1111	Part-time, 3 Years

Part-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
10459	Motor Learning	4	-	4
11426	Biomechanics I	8	8	-
11429	Applied Physiology I	8	8	-
11435	Biomechanics II	6	-	6
11436	Applied Physiology II	6	-	6
Stage Total		32	22	10
<i>Year 2</i>				
10461	Research Methods	4	4	-
11427	Exercise and Rehabilitation I	4	4	-
Sports Science Strand				
10460	Psychosocial Aspects of Sport	4	-	4
11458	Clinical Exercise Testing and Athlete Assessment	8	8	-
11459	Exercise Prescription and Practice	8	-	8
11460	Sports Nutrition	4	-	4
OR				
Exercise Rehabilitation Science Strand <1>				
11441	Exercise and Rehabilitation II	4	-	4
11442	Functional Anatomy	8	-	8
11461	Clinical Biomechanics	4	-	4
Stage Total		32		
<i>Year 3</i>				
11438	Research Project	12	-	12
11439	Applied Physiology III	6	6	-
11440	Biomechanics III	6	6	-
11462	Project Proposal	4	4	-
11463	Project Workshop	4	-	4
Stage Total		32		

Notes

- > Students undertaking the Exercise Rehabilitation Science Strand are required to select an additional subject (or group of subjects) of 8 units duration from the Sports Science Strand.
- ''' Students must complete Years 1 and 2 with a credit grade average before proceeding to Year 3.
- ii) The availability of second year subjects will be dependent upon student demand and availability of academic staff and resources.

Master of Exercise and Sport Sciences by Coursework

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

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

Admission Requirements

A Pass Entry Level

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

B Honours Entry Level

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

C Special Circumstances

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

D Holders of the Graduate Diploma

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

E Qualifying Statement

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

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

Course Outline

The course outline for the Master of Exercise and Sport Sciences by Coursework is presented in Table 6.3.

Subject Descriptions

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

11438 Research Project

Semester 2 - 12 units

Pre-requisite Project Proposal (11462)

Co-requisite Project Workshop (11463)

In this unit students will work individually or in small groups to conduct an investigative project related to exercise physiology, biomechanics or motor learning. This project may take one of several formats including: a quality assurance project, study of acute responses to exercise in a small sample of healthy or disabled individuals, a sports/exercise epidemiological study, extensive literature review, or a minor research project related to exercise and sports science.

11439 Applied Physiology III

Semester 1 - 6 units

For subject description refer to Applied Physiology III in Master of Applied Science (Exercise and Sport Sciences) by research program.

11440 Biomechanics III

Semester 1 - 6 units

For subject description refer to Biomechanics III in Master of Applied Science (Exercise and Sport Sciences) by research program.

11462 Project Proposal

Semester 1-4 units

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

11463 Project Workshop

Semester 2 - 4 units

Pre-requisite Project Proposal (11462)

Co-requisite Research Project (11438)

In this unit, students will further the implementation and evaluation of their research projects. The course is designed to give structure to the process of undertaking a research project in exercise physiology, biomechanics or motor learning. It provides a forum in which to exchange ideas, formulate and test concepts, report on progress (including possible pilot work), defend developments and generally develop critical faculties in relation to the requirements of the research project.

Table 6.4 Master of Applied Science (Exercise and Sport Sciences) by Research

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

Course

Code	Mode of Offer
1106	Special Qualifying Program (for Masters Qualifying Students)
1114	Full-time, minimum 2 Years
1115	Part-time, minimum 3 Years

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
10571	Intermediate Statistics	8	8	-
11439	Applied Physiology III OR	6	6	-
11440	Biomechanics III	6	6	-
11486	Research Thesis A	-	-	-
11503	Thesis Workshop I	6	6	-
11504	Thesis Workshop II	6	-	6
<i>Year 2</i>				
11448	Research Thesis B	-	-	-
11505	Thesis Workshop III	6	-	6

Part-time Mode

<i>Year 1</i>				
10571	Intermediate Statistics	8	8	-
11439	Applied Physiology III OR	6	6	-
11440	Biomechanics III	6	6	-
11486	Research Thesis A	-	-	-
11503	Thesis Workshop I	6	6	-
11504	Thesis Workshop II	6	-	6
<i>Year 2</i>				
11448	Research Thesis B	-	-	-
11505	Thesis Workshop III	6	-	6
<i>Year 3</i>				
11448	Research Thesis	-	-	-
<i>Year 4 (and subsequent years)</i>				
11448	Research Thesis	-	-	-

Notes

- ¹ Students may enter the program directly into Year 2 if proceeding from an Honours degree, Graduate Diploma in Applied Science (Exercise and Sport Sciences), Master of Applied Science by coursework (Exercise and Sport Sciences), or a course of an equivalent standard, as "deemed by the Faculty.
- ² Students may be directed to undertake a maximum of 8 units of 11900 Special Program - Exercise and Sport Sciences. This may be undertaken in only one of Semester 1 or 2 for students entering with a pass degree and only in Semester 3 for students entering with an Honours degree or equivalent.
- ³ Students may take only one of Applied Physiology in or Biomechanics III.

Master of Applied Science (Exercise and Sport Sciences) by Research

The Master of Applied Science (Exercise and Sport Sciences) by Research provides the opportunity for research into specific areas of Exercise and Sport Sciences. This research degree comprises a minimal coursework component, designed specifically to facilitate the student's research progress.

Admission Requirements

A Pass Entry Level

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

B Honours Entry Level

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

11439 Applied Physiology III Semester 1-6 units

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

11440 Biomechanics III Semester 1-6 units

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

C Graduate Diploma in Applied Science (Exercise and Sport Sciences)

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

D Master of Applied Sciences (Exercise and Sport Sciences) by Coursework

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

E Special Circumstances

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

F Qualifying Statement

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

Course Outline

The Course Outline for the Master of Applied Science (Exercise and Sport Sciences) by Research is presented in Table 6.4.

Subject Descriptions

10571 Intermediate Statistics

Semester 1 - 8 units

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.

11448 Research Thesis B

Students will not be permitted to proceed with the research thesis unless the coursework and any Special Program (Exercise and Sport Sciences) undertaken has been satisfactorily completed. During subsequent semesters students will be expected to carry out their research under approved supervision and student seminars will be held concurrently as the research thesis develops.

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

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

11486 Research Thesis A

Each person will be required to submit a research proposal at the end of first semester of the full-time pass entry course.

11503 Thesis Workshop I

Semester 1 - 6 units

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

11504 Thesis Workshop II*Semester 2 - 6 units*

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

11505 Thesis Workshop III*Semester 1 - 6 units*

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

11900 Special Program - Exercise and Sport Sciences

The Special Programs are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

Table 6.5 Master of Applied Science (Human Biomedical Sciences) by Research*Course**Code Mode of Offer**1106 Special Qualifying Program (for Masters qualifying students)**1116 Full Time, 4 Semesters or 2 years**1117 Part Time, 6 Semesters or 3 years*

Full-time

		Total	Sem 1	Sem 2
<i>Year 1</i>				
10571	Intermediate Statistics	8	8	-
11507	Thesis Workshop 1	6	6	-
11508	Thesis Workshop 2	6	-	6
11511	Research Thesis A	-	-	-

Year 2

11509	Research Thesis B	-	-	-
11510	Thesis Workshop 3	6	-	6

Part-time*Year 1*

10571	Intermediate Statistics	8	8	-
11507	Thesis Workshop 1	6	6	-
11508	Thesis Workshop 2	6	-	6
<i>Stage Total</i>		<u>20</u>	<u>14</u>	<u>6</u>

Year 2

11511	Research Thesis A	-	-	-
-------	-------------------	---	---	---

Year 3

11509	Research Thesis B	-	-	-
11510	Thesis Workshop 3	6	-	6

Master of Applied Science (Human Biomedical Sciences) by Research

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

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

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

Admission Requirements

- i) A Bachelor of Applied Science degree from the Faculty of Health Sciences, at a credit level or higher
OR
- ii) A Bachelor of Applied Science degree from the Faculty of Health Sciences at an Honours level
OR
- iii) A Baccalaureate degree preferably with a Biological background from an Australian University, at credit level or higher
OR
- iv) A Bachelor of Medical Sciences degree
OR
- v) A degree* deemed to be equivalent to any of the above from a Foreign University.
OR
- vi) A Masters degree by coursework in a relevant/related area.
OR
- vii) Submit evidence of general and /or professional qualifications* as well as satisfy the Head of the Department and Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies.

Advanced Standing may be given to candidates of high calibre to enter the second year of the program.

Subject Descriptions

10571 Intermediate Statistics

Semester 1 - 8 units

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.

11507 Thesis Workshop I

Semester 1 - 6 units

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

11508 Thesis Workshop II

Semester 2 - 6 units

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

11509 Research Thesis B

Semester 1 & 2

Students will not be permitted to proceed with the research thesis unless the coursework and any special laboratory oriented training sessions undertaken have been satisfactorily completed. During subsequent semesters students will be expected to carry out their research under approved supervision and student seminars will be held concurrently as the research thesis develops.

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

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

11510 Thesis Workshop III

Semester 1 - 6 units

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

11511 Research Thesis A

Semester 2

Each person will be required to submit a research proposal at the end of first semester of the full-time pass entry course.

11900 Special Program - Exercise and Sport Sciences

The Special Programs are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

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. 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, leaders/administrators in service delivery settings, 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 focused research in an area of communication sciences and disorders. Individuals with PhDs in this area find rewarding careers in academic, research and clinical settings.

The School 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 parts 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 the Laboratory's PCs. 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. A Speech Motor Control Laboratory has also been established. Its extensive facilities provide opportunities for measurements of various physiological mechanisms that underlie speech production.

Information about the School and its courses of study can be obtained from the Faculty of Health Sciences Student Administration Services, 646-6353, or from the Admissions Co-ordinator in the School of Communication Disorders, 646-6450.

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 IV: Advanced Issues	70	63 ²	T ²
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.

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

Modified Course

Year 1 (last offered in 1996)

101B9	Behavioural Science MC	91	56	35
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
12125	Professional Development I: Introduction to Clinical Learning	21	7	14
12127	Stuttering I	35	35	-
12282	Professional Development II: Clinical Skills	42	21	21
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
12335	Speech Pathology Clinical II: Adult	130	23	107 ¹
<i>Stage Total</i>		693	277	416

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 requisites for admission to the Bachelor of Applied Science (Speech Pathology) course. Refer to the General Admission Requirements in Chapter 3.

For the Bachelor of Applied Science (Speech Pathology) Modified Course, completion of an approved Bachelor of Arts degree with majors in both Linguistics and Psychology is required. The last intake into the Modified Course will be in 1996.

Course Outline

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

Subject Descriptions

Year 1

101B5 Introductory Psychology

Semester 1-42 hours

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

101B6 Cognitive and Developmental Psychology

Semester 1 -14 hours

Semester 2 - 42 hours

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

101B7 Research Methods and Statistics i

Semester 1-42 hours

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

101B8 Disorders and their Management*Semester 2 - 56 hours*

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

11176 Introductory Human Biology*Semester 1-56 hours*

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

11178 Introductory Neurobiology*Semester 1-28 hours**Co-requisite Introductory Human Biology (11176)*

This subject introduces the student to the basic structure and function of the nervous system, and the physiology of nerve receptors synapses and neuromuscular transmission. The structure, contractile process, muscle mechanics and biochemistry of skeletal and smooth muscle are covered. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11179 Neurobiology I*Semester 2-28 hours**Pre-requisite In troductory Neurobiology (11178)*

This subject covers spinal reflex mechanisms, as well as the structure and function of the somatosensory system. There is also a discussion of the autonomic nervous system. This subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11181 Body Systems I*Semester 2-56 hours**Pre-requisite Introductory Human Biology (11176)*

This is an introduction to the structure and function of the major organs of the body, including the respiratory, cardiovascular, digestive, renal and reproductive systems. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11190 Speech and Hearing Science*Semester 1-30 hours**Semester 2 - 40 hours*

This subject aims to provide an understanding of the physics, anatomy and physiology of speech and hearing mechanisms. It also includes the embryological development of the foetus with special reference to the organs of speech and hearing. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

12124 Linguistics*Semester 1-21 hours**Semester 2 - 21 hours*

Nature of the communication system. Theories and methodologies of psycholinguistics and sociolinguistics, text linguistics, systemic-functional grammars. Examples from acquisition and disorder - child and adult.

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

This subject introduces 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 commence a longitudinal case study of a family, and begin the required accumulation of Professional Development Points through involvement in relevant professional, community, or clinical services. Students become involved in the running 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 English, using the International Phonetic Alphabet. Articulatory phonetics and suprasegmental features. Australian English.

12127 Stuttering I*Semester 1-35 hours*

Management strategies for children and adults who stutter.

12128 Normal Communication Development*Semester 2 - 35 hours*

Normal communication development in English from birth to old age, across cultures relevant to Australia.

Year 2**102A3 Cognitive Neuropsychology I***Semester 1-21 hours**Pre-requisite Cognitive and Developmental Psychology (101B6)*

This course is concerned with speech and language. The topics include the perception and production of fluent speech, the neuropsychological approach to brain behaviour relationships, an introduction to cognitive neuropsychology, and cognitive neuropsychological models of language dysfunction.

102A4 Research Methods and Statistics II*Semester 1-28 hours**Semester 2-28 hours**Pre-requisite Research Method & Statistics I (101B7)*

Three strands make up this course. The first strand completes the core design and statistical procedures commenced in Research Methods I, internal/external validity, advanced design, regression and ethics. The second strand examines Single Research Design and Analysis and the third strand addresses issues in Social Research Design.

112B3 Neurobiology II for Communication Disorders

Semester 1 - 56 hours

Pre-requisite Neurobiology I (11179)

This subject considers the anatomy and physiology of special sensory systems and the control and integration of somatic motor activity with special reference to speech. The autonomic nervous system and higher functions and adaptive properties of the nervous system are also examined. Considerable emphasis is placed on the anatomical and physiological basis of neurological problems throughout the subject. This subject includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the subject.

12278 Voice Science and Disorders

Semester 1-21 hours

Semester 2 - 28 hours

Pre-requisite Speech and Hearing Science (11190)

The subject consists of two components: i) Voice Science: Current research on respiration and voice; instrumental procedures for measuring respiratory and vocal performance; ii) Voice Disorders: Evaluation and management of individuals with a variety of phonatory disorders.

12279 Research in Communication Disorders

Semester 1 -14 hours

Skills of critiquing in research in communication disorders.

12280 Language Impairments in Children I

Semester 1-21 hours

Semester 2 - 21 hours

Pre-requisite Linguistics (12124), Normal Communication Development (12128)

An overview of language impairments occurring in children; principles of language evaluation and intervention; reviews and analyses of assessment procedures, and individual and programmed intervention strategies.

12281 Articulation and Phonology

Semester 1 - 35 hours

Recommended Background Subjects Linguistics (12124); Normal Communication Development (12128); 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 and continue with visits for the longitudinal case study of a family. They continue the required accumulation of Professional Development Points 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, the student 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 course includes an introduction to types of deafness, pathologies of the ear and treatment; basic audiological tests and clinical procedures for evaluating hearing in children and adults; amplification for the hearing impaired.

Year 3

103A7 Cognitive Neuropsychology II

Semester 1-28 hours

Pre-requisite Cognitive Neuropsychology I (102A3)

This course is concerned with the cognitive and behavioural consequences of brain injury. Two broad areas are covered. Firstly, the causes and consequences of memory impairment, including theoretical accounts, assessment, and strategies for remediation are considered. Secondly, cognitive rehabilitation for attentional and behavioural disorders in the brain injured is addressed in the context of speech and language problems. Current controversies in the memory literature, and the relationship between experimentation and rehabilitation are addressed.

103A8 Sociology*Semester 1 - 28 hours**Semester 2 - 28 hours*

Major health care issues are examined. Current issues at the macro (policy and philosophical) level are addressed. Micro issues are also considered, including stigma, sick role theory, and patient-practitioner relationships. Students are encouraged to question the relationship between values expressed as social policy, community pressures and expectations, and the value structures of health professionals. This examination of the current social forces in Australian society aims to enhance professionalism.

103A9 Patient Management: Theories and Applications*Semester 1-28 hours**Semester 2-42 hours*

Pre-requisites *Introductory Psychology (101B5), Cognitive and Developmental Psychology (101B6), Disorders and their Management (101B8)*

In Semester 1, two strands are covered. The first of these considers the psychological needs of the communicatively disordered client and his/her family in the context of speech pathology practice. Issues with respect to management of underlying anxiety, depression and psychological disorders in this client group will be addressed. Secondly, behaviour therapy techniques are applied to the treatment of speech and language disorders, and to behavioural problems which interfere with the process of speech 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 (101B5)*

This course has two strands. Firstly, topics in social psychology are covered including: power and social exchange; leadership; group decision making; social traps; aggression; non-verbal communication; altruism and helping behaviour. Secondly, psychological and social aspects of health, illness and health care are considered. Particular emphasis is given to stress, the effects of chronic illness and disability, and the role of health practitioners.

11384 Neurology for Communication Disorders*Semester 1 -14 hours**Pre-requisite* *Neurobiology 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 impairment 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 (1ZZ78) students may begin observations in hospital voice clinics affiliated with the School. These visits may continue throughout years 3 and 4 of the course. A minimum number of such visits is required for a pass in this subject.

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 and professional issues, and communication and counselling skills involved in working with adult clients and caregivers. Students continue with visits for their longitudinal case study of a family. They continue the required accumulation of Professional Development Points 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.

Year4**12422 Advanced Topics***Semester 1 or 2-56 hours***Note:** This subject may be reversed across each semester as only half the students participate at one time.

This subject is comprised of four separate seminar segments, each of 14 hours. Students elect to participate in four of a selection of advance topics as determined by the relevant lecturers from the core areas previously studied in speech pathology and audiology. Focus is on advanced thinking in each area presented.

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

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. Students also present their longitudinal case study. They complete the required accumulation of Professional Development Points through 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.

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 may be 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)

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

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.

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 3 and Year 4 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 4. At the completion of this full-year subject, each student will have prepared a written proposal for his/her research project.

Year 4

10480 Honours Research Methods Individual Studies II

Semester 2 - 28 hours

Co-requisite Honours Thesis (12430)

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

12429 Honours Research Seminar II

Semester 1 - 56 hours

Pre-requisites Honours Research Seminar I (12339); Satisfactory performance in Year 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

Course Outline

The Course Outlines for the Modified Course are presented in Table 7.1.

Subject Descriptions

Year J

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.

Years 2 and 3

Refer to 4-year Pass Course for subject descriptions.

Table 7.2 Master of Applied Science (Communication Sciences and Disorders)

Course

Code Mode of Offer

1213 Full-time, minimum 2 Years

1214 Part-time, minimum 3 Years

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
12507	Research Thesis	-	-	-
<i>Year 2 (and subsequent years)</i>				
12507	Research Thesis	-	-	-

Part-time Mode

<i>Year 1</i>				
12507	Research Thesis	-	-	-
<i>Year 2</i>				
12507	Research Thesis	-	-	-
<i>Year 3 (and subsequent years)</i>				
12507	Research Thesis	-	-	-

**Master of Applied Science
(Communication Sciences and Disorders)**

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

Admission Requirements

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

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

- OR
- ii) A bachelor degree in an area of relevance from an overseas institution equivalent to an Australian bachelor degree
- OR
- iii) Evidence of general and academic qualifications and experience as will satisfy the Academic Board that the applicant possesses the educational preparation and capacity to pursue independent research, and satisfy such additional requirements for admission to the program, if any, as may be prescribed by the Academic Board.

12507 Research Thesis

Supervisors will be appointed to assist the student in the conduct of the research project if approval is given for the project to be carried out. Supervision will normally involve regular meetings with the supervisor(s). Facilities and equipment necessary to conduct the thesis project will be arranged with the School, subject to approval of project design and equipment necessary to conduct the project.

Table 7.2.1 Master of Communication Disorders

Course

Code Mode of Offer

1215 Full-time, minimum 2 Years

1216 Part-time, minimum 3 Years

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
12508	Clinical Research Thesis		-	.
<i>Year 2</i>				
12508	Clinical Research Thesis	-		

Part-time Mode

<i>Year 1</i>				
12508	Clinical Research Thesis	-		
<i>Year 2</i>				
12508	Clinical Research Thesis			- •
<i>Year 3 (and subsequent years — first offered in 1997)</i>				
12508	Clinical Research Thesis	-		

Master of Communication Disorders

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

Admission Requirements

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

- i) A bachelor degree in speech pathology from an Australian tertiary institution
OR
A bachelor degree from an overseas institution equivalent to an Australian bachelor degree in speech pathology
AND
- ii) A minimum of 12 months professionally relevant post-graduation experience

12508 Clinical Research Thesis

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

Clinical Education

Students in the Bachelor of Applied Science course in Speech Pathology participate in a wide variety of clinical practice experiences throughout their undergraduate education. These range from observational opportunities to supervised practice with clients/patients. Clinical practice occurs in 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.

1996 Clinical Practice Dates

Year 2

Pre-Semester 1

Clinic Orientation

Thursday & Friday February 22-23

Semester 1

Weekly as arranged

February 26 - May 31

Pre-Semester 2

Clinic Orientation

Thursday & Friday August 1-2

Semester 2

Weekly as arranged

August 5 - November 8

Year 3

Pre-Semester 1

Clinic Orientation

Thursday & Friday February 22-23

Semester 1

Weekly as arranged

February 26 - May 31

Inter-Semester

3 weeks June 24 - July 31 OR

3 weeks December - February

Pre-Semester 2

Clinic Orientation

Thursday & Friday August 1-2

Semester 2

Weekly as arranged

August 5 - November 8

Year 4

Pre-Semester 1

(only for students spending Semester 1 on-campus)

Clinic Orientation

Thursday & Friday February 22-23

Semester 1 or 2

Weekly as arranged

February 26 - May 31 OR

August 5 - November 8

Pre-Semester 2

(only for students spending Semester 2 on-campus)

Clinic Orientation

Thursday & Friday August 1-2

Semester 2 or 1

12 weeks

February 26 - May 31 OR

August 5 - November 8

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 Sciences 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 the University

of Sydney (previously 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 Administrative Assistant on 646-6565, who can direct enquiries to the relevant coordinators.

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

<i>Course</i>		Total	Sem 1	Sem 2
<i>Code</i>	<i>Mode of Offer</i>			
0808	2 Years Part-time, plus 1 Year Full-time (students commencing before 1996) Two years block attendance (students commencing 1996, subject to approval)			
<i>Year I</i>				
08121	Aboriginal Studies I	31	15	16
08122	Communication Skills.I	17	8	9
08123	Community Care I	36	18	18
08124	Community Development I	186 ¹	93	93
08125	Counselling I	48	24	24
08126	Drugs and Alcohol I	87 ¹	43	144
08127	Emergency Care I	21	10	11
08234	Aboriginal Studies II	31	15	16
08236	Community Care II	111 ¹	55	56
08237	Community Development II	111	55	56
08238	Counselling II	95 ¹	46	47
08240	Emergency Care II	15	7	8
<i>Stage Total</i>		789	389	498

Year 2

08234	Aboriginal Studies II	31	15	16
08235	Communication Skills II	101 ¹	50	51
08236	Community Care II	111 ¹	55	56
08237	Community Development II	111	55	56
08238	Counselling II	95 ¹	18	18
08239	Drugs and Alcohol II	18	9	9
08240	Emergency Care II	15	7	8
08241	Management Skills II	18	9	9
<i>Stage Total</i>		<i>500</i>	<i>218</i>	<i>223</i>

Year 3

08304	Elective Studies	240 ²	120	120
08305	Elective Study Independent Project	375	187	188
<i>Stage Total</i>		<i>615</i>	<i>307</i>	<i>308</i>

Notes

- ¹ Includes Independent Project work of 75 hours
² Includes two 60-hour field experience placement

Year 2 (to be first offered in 1997, subject to approval)

08260	Perspectives on Indigenous Health II	85	42	43
08261	Communication Studies II	85	42	43
08262	Primary Health Care II	85	42	43
08263	Community Development II	85	42	43
08264	Counselling II	85	42	43
08265	Indigenous Health Computing II	85	42	43
08266	Field Education II	140	70	70
<i>Stage Total</i>		<i>650</i>	<i>322</i>	<i>328</i>

Diploma of Health Science (Aboriginal Health and Community Development)

The Diploma of Health Science (Aboriginal Health and Community Development) is open to Aboriginal people. Previously conducted over a period of three years, a two-year program has been proposed. Students: attend the Faculty full-time for four two-week blocks each year (three blocks in Year 3); complete four weeks of field experience placements (2two-weekplacements), andundertakeproject work in between each Faculty block.

Admission Requirements

In general, the kind of appUcant 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 department and community agencies. AppUcants shouldbe Aboriginal and have a background in at least one of the foUowing 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

08121 Aboriginal Studies I

Full year - 31 hours.

An examination of the historical, social, economic and poUtical factors relevant to the position of Aboriginalpeople in today's society. The meaning of AboriginalUty in a contemporary context is explored, together with issues of Aboriginal identity. The subject also provides a framework for an Aboriginal perspective in the other subjects of the Aboriginal Health and Community Development course.

08122 Communication Skills I

Full year-17 hours

The process of communication is studied, including verbal and non-verbal forms of communication in Aboriginal communities and the process of oral tradition. Skills developed include: listening and responding skills; the fundamentals of public speaking; and the preparation of media statements.

08123 Community Care I

Full year - 36 hours

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

08124 Community Development I

Full year-186 hours

Hours includes independent project work of 150 hours.

The concept and process of community development is explored together with the role of community development as a strategy for health improvement. Students are required to develop a community profile and conduct a needs survey for a given community.

08125 Counselling I

Full year - 48 hours

This subject is designed to assist the student in developing practical counselling skills within the cultural setting of Aboriginal society and to equip the student with the basic knowledge and skills to deal with a family or individual crisis.

08126 Drugs and Alcohol I

Full year - 87 hours

Hours includes 75 hours Project Work

The social, political, psychological and physical factors which contribute to the development of alcohol and other drug related problems are examined and the pharmacology of the more common drugs, both prescribed and illegal, is studied. Skills are developed in identifying and responding to drug related crises and in assessing community needs not met by existing drug and alcohol services.

08127 Emergency Care I

Full year - 21 hours

This subject includes- the basic knowledge of emergency care and the ability to perform the associated skills in relation to shock; cardiac and respiratory arrest and cardio-pulmonary resuscitation; burns and scalds; bandaging; fracture and dislocations; eye and ear injuries; wounds; Diabetes Mellitus and fits.

08128 Management Skills I

Full year -15 hours

This subject builds on the student's previous work experience and provides students with the range of skills and areas of knowledge required to ensure competent and well organised service delivery to the community. Emphasis is on the organisational structure of government departments and Aboriginal community organisations.

08234 Aboriginal Studies II

Full year - 31 hours

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

08235 Communication Skills II

Full year-101 hours

Includes independent project work of 75 hours

This subject is a continuation of Communication Skills I. It further examines the process of communication (including non-verbal factors) and will enable students to be more effective communicators in the written, verbal and mass communication media. Skills developed include writing reports and magazine articles; preparation of project proposals and submissions; group communication and the conduct of meetings.

08236 Community Care II

Full year-111 hours

Includes independent project work of 75 hours

This subject is a continuation of Community Care I. It builds further on the student's work experience and focuses on the development of knowledge and skills in such areas as maternal and infant care, childhood and adolescent health, family planning, mental health and some common illnesses and diseases, including parasitic infestations, gastroenteritis and pneumonia.

08237 Community Development II

Full year- 111 hours

Hours includes independent project work of 75 hours

This subject further examines the principles of planning, designing and evaluating community development projects, with a focus on strategic planning. The focus of the subject will be practical, and students will be expected to understand and apply principles taught in the course to projects they are undertaking in their work.

08238 Counselling II

Full year - 95 hours

Hours include independent project work of 75 hours

This subject builds on Counselling I and provides for the further development of skills in the counselling process, including assessment, understanding the problem, developing an action plan, implementation and case presentation.

08239 Drugs and Alcohol II

Full year-18 hours

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

08240 Emergency Care II*Full year-17 hours*

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

08241 Management Skills II*Full year-78 hours*

This subject develops further the range of skills required to ensure well organised service delivery to the community. Skills in problem solving, goal setting, and productive interpersonal relationships are developed. This subject also teaches students basic computer skills involving the use of data and word processing packages.

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

08305 Elective Study Independent Project*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.

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

*Course**Code Mode of Offer**0856 Pass Course; Full-time, block attendance, 3 Years**0857 Honours Program; Full-time, block attendance, 4 Years*

		Total		
<i>Year 1</i>				
08129	Australian Society and Health	56	28	28
08130	Introduction to Health Research & Ethics	56	28	28
08152	Aboriginal Studies I	56	28	28
08153	Community Development I	56	28	28
08154	Counselling I	56	28	28
08155	Health 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>		518	259	259
<i>Year 2</i>				
08243	Health Promotion	56	28	28
08244	Epidemiology	56	28	28
08250	Aboriginal Studies II	56	28	28
08252	Counselling II	56	28	28
08253	Health II	56	28	28
08254	Field Experience II	70 ¹	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>		518	259	259

Year 3 (to be first offered in 1996)

08306	Health Planning Policy & Evaluation	56	28	28
08307	Contemporary Issues in Health, Law & Medicine	56	28	28
08314	Aboriginal Studies III	56	28	28
08315	Community Development III	56	28	28
08316	Counselling III	56	28	28
08317	Health 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

Stage Total 560 280 280

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

Notes

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.

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

Course

Code Mode of Offer

0853 Pass Course; Full-time, 4 Years block attendance

0858 Honours Program; Full-time, 5 Years block attendance

Total

Year 1

08129	Australian Society and Health	56	28	28
08152	Aboriginal Studies I	56	28	28
08153	Community Development I	56	28	28
08155	Health 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

Stage Total 406 203 203

Year 2

08130	Introduction to Health Research and Ethics	56	28	28
08154	Counselling I	56	28	28
08243	Health Promotion	56	28	28
08250	Aboriginal Studies 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

Stage Total 406 203 203

Year 3

08244	Epidemiology	56	28	28
08252	Counselling II	56	28	28
08253	Health II	56	28	28
08259	Community Development II	56	28	28
08314	Aboriginal Studies III	56	28	28
10393	Social Research	56	28	28

Stage Total 336 168 168

Year 4 (to be first offered in 1996)

08306	Health Planning, Policy and Evaluation	56	28	28
08307	Contemporary Issues in Health, Law & Medicine	56	28	28
08315	Community Development III	56	28	28
08316	Counselling III	56	28	28
08317	Health III	56	28	28
08318	Field Experience III	112 ²	56	56
11388	Biological Sciences III	56	28	28
<i>Stage Total</i>		448	224	224

Honours Program - Additional Subjects

Year 4

	Research Elective ³	42	21	21
--	--------------------------------	----	----	----

Year 5

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 i.

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

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 Aboriginal Studies 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. The student 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 student to develop a broad concept of what counselling is and how it is practised in the context of Aboriginal Health, and Community Development.

08155 Health)

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 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 Aboriginal Studies II

Full year - 56 hours

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

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 Health 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 4th 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 address factors related ill health in Aboriginal communities, and to plan programs. Students will gain 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 and understanding of how the law affects persons with a disability (social or physical) and to allow them to explore possible avenues for reform of the law.

08314 Aboriginal Studies 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 Health HE

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 Yoorang Garang.

Table 8.3 Bachelor of Health Science (Rehabilitation Counselling)

Course

<i>Code</i>	<i>Mode of Offer</i>
0819	Full-time; 3 Years
0820	Part-time; 6 Years (No Commencing Students in 1996)
0845	Honours Program: Full-time; 4 Years
0846	Honours Program: Part-time; 8 Years

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
Core Stream				
08129	Australian Society and Health	56	28	28
08130	Introduction to Health Research and Ethics	56	28	28
101A0	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
<i>Year 2</i>				
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>		763	329	434
<i>Year 3</i>				
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>		658	224	434

Honours Program

Year 3

Research Elective ⁴	42	-	42'
--------------------------------	----	---	-----

Year 4

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

Part-time Mode

Year 1 (No Commencing Students in 1996)

Year	2	(No	students	in	1996)	,
------	---	-----	----------	----	-------	---

Year3&4

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>	224	112	112

Year5&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>	224	112	112

Honours Program

Year 6

Research Elective ⁴	42	-	42
--------------------------------	----	---	----

Year 7

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

Year 8

08498	Thesis	-	-	-
-------	--------	---	---	---

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 now only be completed on a full-time basis. A minimum of 3 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 6 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 3rd Year) is 4 years full-time and 8 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:

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

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

Course Outline

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

Subject Descriptions

08129 Australian Society and Health

Semester 1 - 28 hours

Semester 2 - 28 hours

Using historical, cross-cultural and sociological principles and data, this subject investigates the relationship between the structure of Australian society, the health of its people and the organisation of its health care system.

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 will provide an 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 will relate 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 to stress the importance that vocational counselling plays in the overall success of this process. A vocational counselling framework and the tools and resources to support it will be presented to students. Strategies for planning for and implementing vocational counselling decisions will also be introduced.

08135 Professional Practice I

75 hours (see Field Experience/Professional Practice Section)

This subject comprises an essential component of the overall process of developing professional competence and identity as a rehabilitation counsellor. In the first year of the subject, students will be familiarised with the role and function of the rehabilitation counsellor through field visits, participation in seminars and workshops conducted at selected agencies, and tutorials in preparation for field placements.

08243 Health Promotion*Semester 1 - 28 hours**Semester 2 - 28 hours*

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

08244 Epidemiology*Semester 1 - 28 hours**Semester 2 - 28 hours*

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

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

08245 Rehabilitation Theory II*Semester 1**Occupational Rehabilitation I, 28 hours*

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

*Semester 2**Occupational Rehabilitation II, 28 hours.*

The aims of this subject are to describe the pattern of occupational injury and illness in Australia and to explain it in terms of the organisation of work; and also to analyse the rehabilitation of people with work-related disabilities in the context of the various social strategies devised to deal with the widespread failure of measures to prevent workplace injuries and illnesses.

08246 Rehabilitation Counselling II*Semester 1 - 28 hours**Semester 2 - 28 hours*

Semester one of this subject introduces students' to the theory and practice of the interpersonal process approach to counselling. Particular emphasis is placed on conceptualisation of the client's interpersonal style and its affect on the rehabilitation process. Semester two focuses on the theory and practice of cognitive approaches to rehabilitation counselling. The aim of the subject is students' understanding and practice of the techniques and processes involved in these theories of counselling.

08247 Vocational Rehabilitation II*Semester 1**Vocational Assessment: Client and Work Environment I, 28 hours*

This subject aims to give students an appreciation of the importance of appropriate evaluation of the client as an adjunct to vocational counselling and overall vocational planning. To expose students to the range of client assessment techniques available and discuss the relevance of various techniques to specific disability groups.

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

This subject highlights the need to assess the workplace and specific jobs in tandem with client assessment. To assist students to appreciate the differing demands of jobs and to accept that these demands can be modified by implementing appropriate forms of change at the worksite.

08249 Professional Practice II*Pre-Semester 1 - 105 hours**Inter-Semester - 210 hours*

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

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

08306 Health Planning, Policy and Evaluation*Semester 1 - 28 hours**Semester 2 - 28 hours*

This subject is designed to provide an understanding of the basic concepts and approaches in health policy, planning and evaluation. Students will be introduced to methodologies and techniques used in policy analysis, public health planning, and program evaluation. The subject will build on theories and skills acquired in previous years particularly quantitative and qualitative methodological, statistical and social science methods. Special emphasis will be placed on the multidisciplinary nature of health policy, planning and evaluation within a public health framework.

08307 Contemporary Issues in Health, Law and Medicine*Semester 1 - 28 hours**Semester 2 - 28 hours*

This subject will introduce students to an understanding of the Australian legal system and general principles and law governing human behaviour. This subject will provide the student with an understanding of the relationship between disability, health and the law. It is designed to give students and understanding of how the law affects persons with a disability (social or physical) and to allow them to explore possible avenues for reform of the law. The subject also provides the student with an opportunity to familiarise

themselves with contemporary issues in health and medicine. The combined knowledge and skills of their previous subjects in this strand will be utilised in their critical evaluation of these issues.

08308 Vocational Rehabilitation III

Semester 1 - 28 hours

Semester 2 - 28 hours

Students are introduced to the placement process and the issues involved in securing meaningful work for persons with disabilities. Students will also become aware of the problems faced by individuals when they return to work following injury or disability. Students are also introduced to an approach to "marketing" clients in the work place in order to increase the job options that are made available to them. Post-placement services that can be offered in order to encourage 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 unit provides students with the opportunity to develop special skills and knowledge in two selected areas from the electives offered. Each elective topic will be of one Semesters duration and each student will undertake one elective in each Semester.

The electives currently offered are:

- Psychiatric Rehabilitation
- Rehabilitation and Drug Abuse
- Rehabilitation of Public Offenders
- Rehabilitation of Persons with Intellectual Disability
- Rehabilitation and Older People
- Rehabilitation and Persons with Traumatic Brain Injury
- Rehabilitation of Persons from Non English Speaking Backgrounds
- Rehabilitation of Persons with HTV/AIDS
- Rehabilitation of Persons with Hearing Impairment

08310 Special Project

Semester 1 - 28 hours

Semester 2 - 28 hours

Students are required to research (in small groups) an area of rehabilitation counselling practice or disability. Students are also required to present findings of their research in Semester 2 of the course.

08311 Professional Practice III

Inter-Semester - 210 hours

Students are required to complete a supervised 6-week full-time block placement in a rehabilitation or related program. As the final practicum of the three-year professional practice program, the students will be expected to put into practice their knowledge and skills in rehabilitation counselling through case management and rehabilitation planning, in a supervised setting.

08313 Rehabilitation Counselling III

Semester 1 - 28 hours

Semester 2 - 28 hours

This subject provides students with a general overview of the principles and processes involved in effective case and caseload management in rehabilitation. It also outlines techniques and strategies to be utilised in order to achieve and maintain control over individual cases in the face of increasing caseload numbers. Interview practice which focusses on rehabilitation case management and planning is also undertaken.

101A0 Health and Human Behaviour I

Semester 1-28 hours

Semester 2 - 28 hours

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

101B4 Disability Studies I

Semester 1 - 28 hours

Semester 2 - 28 hours

Analysis is made of the impact of disability, trauma and illness from a developmental and cultural perspective. Special reference is made to the impact of disability from the viewpoint of different cultural groups within the Australian community

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 4 units. The first two will run in Semester 1. Unit 1 will cover medical terminology and nutrition and Unit 2 will be an introduction to the principles of cross infection and the operation of the immune system. Units 3 and 4 will run in Semester 2. Unit 3 will examine the biological processes and changes in the human organism over the life span and Unit 4 will be an introduction to basic pharmacological principles and actions of the major drug groups.

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 Graduate Certificate in Health Science Education

Course**Code Mode of Offer**0825 *Full-time: 1 Semester*0826 *Part-time: 2 Semesters***Full-time Mode**

		Total	Sem 1	Sem 2
08426	Group Dynamics	8	8	
08431	Producing and Using Audio Visual Materials	8	8	
08504	Adult Learning in the Health Sciences	6	6	
08505	Instructional Design and Teaching Skills	6	6	
	Elective A ¹	.5	5	
<i>Stage Total</i>		33	33	

Notes

¹ Participants undertake to study one (1) elective of 5 units. This elective is normally taken within the School (subject to staff and student availability) such as:

- 08432 Independent Investigation I
- 08482 Large Group Teaching
- 084AO Distance Learning
- 08568 Patient Education

Part-time Mode

08431	Producing and Using Audio Visual Materials	8	8	-
08434	Student Assessment, Evaluation and Development	8	-	8
OR				
08481	Introduction to Health Education ²	8	-	8
08504	Adult Learning in the Health Sciences	6	6	-
08505	Instructional Design and Teaching Skills	6	6	-
	Elective A ¹	5	5	or 5
<i>Stage Total</i>		33		

Notes

¹ Electives:

Participants undertake to study one elective of 5 units value. This elective is normally taken within the School (subject to staff and student availability) such as:

08466	Independent Investigation II
08507	Educational Practice
08515	Teaching with Reduced Resources
08520	Clinical Teaching and Supervision
08552	Computers for Teacher Productivity
08567	Inservice & Continuing Education in the Health Services

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

08490	Community Development
-------	-----------------------

other electives of relevance include:

08445	Women's Health
08449	Issues in Community Medical Health
08450	Occupational Health and Safety
08452	Drug and Alcohol Studies
08457	Community Nutrition
08488	Counselling Theory and Practice

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

Graduate Certificate in Health Science Education

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

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

Admission Requirements

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

Current or recent experience in teaching would be considered desirable.

Course Outline

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

Subject Descriptions

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

08426 Group Dynamics

Semester 1-8 units

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

08431 Producing and Using Audio-visual Materials

Semester 1 - 8 units

Co-requisite Instructional Design and Teaching Skills (08505)

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

08434 Student Assessment, Evaluation and Development

Semester 2 - 8 units

Pre-requisite Instructional Design and Teaching Skills (08505)

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

08481 Introduction to Health Education
Semester 2 - 8 units
 This subject is taken as a core subject alternative to 08434 by students in the health education stream. Participants explore national and international policies and perspective influencing health education, and look at ways these have been translated into strategies for intervention. Participants will develop knowledge about some of the theories and models that underpin health education and begin to develop skills in using these to plan interventions.

08504 Adult Learning in the Health Sciences
Semester 1-6 units
 In this subject participants will develop their knowledge about theories of learning, the process of learning, the role

of the teacher and learner in health science education, trends in higher education and the context of health science education.

08505 Instructional Design and Teaching Skills
Semester 1 - 6 units
 Emphasis in this subject is on the development of basic skills in planning and effective communication for learning. Participants learn planning skills by undertaking instructional design and use microteaching methods to practice and develop effective teaching skills.

Electives
 Participants complete a total of one (1) elective of 5 units value during the course. For elective subject descriptions, see Appendix 1.

Table 8.5 Graduate Diploma in Health Science Education

Course

<i>Code</i>	<i>Mode of Offer</i>
0843	Full-time; 2 Semesters
0844	Part-time; 4 Semesters

Full-time mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
08426	Group Dynamics	8	8	-
08431	Producing and Using Audio Visual Materials	8	8	-
	Elective A ¹	5	5	-
08434	Student Assessment, Evaluation and Development	8	-	8
08504	Adult Learning in the Health Sciences	6	6	-
08505	Instructional Design and Teaching Skills	6	6	-
08506	Planning Implementing and Evaluating Educational Experiences	6	-	6
08508	Management and Evaluation of Curriculum	8	-	8
	Elective B ¹	5	5	or 5
	Elective C ¹	5	5	or 5
<i>Stage Total</i>		<i>65</i>		

Part-time Mode

<i>Year 1</i>				
08431	Producing and Using Audio Visual Materials	8	8	-
08434	Student Assessment, Evaluation and Development	8	-	8
	OR			
08481	Introduction to Health Education ²	8	-	8
08504	Adult Learning in the Health Sciences	6	6	-
08505	Instructional Design and Teaching Skills	6	6	-
	Elective A ¹	5	5	or 5
<i>Stage Total</i>		<i>33</i>		

Year 2

08426	Group Dynamics	8	8	-
08506	Planning Implementing and Evaluating Educational Experiences	6	-	6
08508	Management and Evaluation of Curriculum ³	8	-	8
	OR			
08509	Management and Evaluation of Health Education Programs ³	8	8	-
	Elective B ¹	5	5	-
	Elective C ¹	5	5	or 5
<i>Stage Total</i>		<i>32</i>		

Notes

¹ Electives: Participants undertake to study a total of three (3) electives. Each elective is of 5 units value. Electives would normally be taken within the School or Faculty (subject to staff and student availability), such as:

08432	Independent Investigation I
08466	Independent Investigation II
08482	Large Group Teaching
084AO	Distance Learning
08507	Educational Practice
08514	Introduction to Educational Computing
08515	Teaching with Reduced Resources
08520	Clinical Teaching and Supervision
08552	Computers for Teacher Productivity
08567	Inservice & Continuing Education in the Health Services
08568	"Patient Education

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

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

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

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

³ Participants with a health education focus should enrol in 08509 Management and Evaluation of Health Education Programs.

Graduate Diploma in Health Science Education

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

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

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

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

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

Admission Requirements

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

Note: Participants wishing to transfer (or articulate) from the Graduate Certificate into the Graduate Diploma should complete a Course Application form and submit this to Head of School by 30 September. Admission of non-Bachelor students will be contingent on achieving a credit grade average. Admission for all students will be contingent on availability of student places.

Course outline

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

Subject Descriptions

Subjects are similar to the Graduate Certificate in Health Science Education. Participants must complete a total of ten (10) subjects including seven (7) core subjects, three (3) electives. Please refer to subject descriptions on page 8 -14.

08434 Student Assessment, Evaluation and Development

Semester 2 - 8 units

Pre-requisite Instructional Design and Teaching Skills (08505)

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

08481 Introduction to Health Education

Semester 2 - 8 units

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

08506 Planning, Implementing and Evaluating Educational Experiences

Semester 1 - 6 units

Pre or Co-requisite Group Dynamics (08426)

In this subject students explore issues in the management of more complex educational experiences, such as problem-based learning, experiential learning, self-directed learning and workshop processes.

08508 Management and Evaluation of Curriculum

Semester 2 - 8 units

Pre-requisite Instructional Design and Teaching Skills (08505)

This subject develops further knowledge about the design, management and evaluation of learning programs. Curricula issues in the health sciences are explored.

08509 Management and Evaluation of Health Education

Semester 1 - 8 units

Pre or Co-requisite Introduction to Health Education (08481)

Participants with a health education focus can choose to undertake this subject as an alternative to Management and Evaluation of Curriculum. Part of this subject may be undertaken using personal learning contract.

Electives

Participants complete a total of three (3) electives during the course. Each subject is of 5 units value. For elective subject descriptions, see Appendix 1.

Table 8.6 Master of Health Science Education by Coursework

Course

Code Mode of Offer

0829 *Full-time; 3 Semesters*

0830 *Part-time; 6 Semesters*

Full-time mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
08426	Group Dynamics	8	8	-
08431	Producing and Using Audio Visual Materials	8	8	-
	Elective A ¹	5	5	-
08434	Student Assessment, Evaluation and Development	8	-	8
08504	Adult Learning in the Health Sciences	6	6	-
08505	Instructional Design and Teaching Skills	6	6	-
08506	Planning Implementing and Evaluating Educational Experiences	6	-	6
08508	Management and Evaluation of Curriculum	8	-	8
	Elective B ¹	5	5	or 5
	Elective C ¹	5	5	or 5
<i>Stage Total</i>		65		

Year 2

08511	Project Seminar	3	3	-
08512	Investigative Project A ⁶	12	12	-
	Research Elective A ^{4,5}	8	8	-
	Research Elective B ^{4,5}	8	8	-
OR				
08511	Project Seminar	3	3	-
08554	Investigative Project B ⁶	20	20	-
	Research Elective A ^{4,5}	8	8	-
<i>Stage Total</i>				31

Part- time Mode

Year 1

08431	Producing and Using Audio Visual Materials	8	8	-
08434	Student Assessment, Evaluation and Development	8	-	8
OR				
08481	Introduction to Health Education ²	8	-	8
08504	Adult Learning in the Health Sciences	6	6	-
08505	Instructional Design and Teaching Skills	6	6	-
	Elective A ¹	5	5	or 5
<i>Stage Total</i>				33

Year 2

08426	Group Dynamics	8	8	-
08506	Planning Implementing and Evaluating Educational Experiences	6	-	6
08508	Management and Evaluation of Curriculum ³	8	-	8
OR				
08509	Management and Evaluation of Health Education Programs ³	8	8	-
	Elective B ¹	5	5	-
	Elective C ¹	5	5	or 5
<i>Stage Total</i>				32

Year 3

08511	Project Seminar	3	3	-
08512	Investigative Project A ⁵	12	(6)	(6)
	Research Elective A ⁴	8	8	-
	Research Elective B ⁴	8	8	-
OR				
08511	Project Seminar	3	3	-
08554	Investigative Project B ⁵	20	(10)	(10)
	Research Elective A ⁴	8	8	-
<i>Stage Total</i>				31

Notes

¹ Electives: Participants undertake to study a total of three (3) electives. Each elective is of 5 units value. Electives would normally be taken within the School or Faculty (subject to staff and student availability), such as:

08432	Independent Investigation I
08466	Independent Investigation II
08482	Large Group Teaching
084AO	Distance Learning
08507	Educational Practice
08514	Introduction to Educational Computing
08515	Teaching with Reduced Resources
08520	Clinical Teaching and Supervision
08552	Computers for Teacher Productivity
08567	Inservice & Continuing Education in the Health Services
08568	Patient Education

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

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

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

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

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

⁴ Participants undertake one Research Elective. See Appendix 1.

⁵ Investigative Project B has a larger word length requirement than Project A. Choice of project should be made in consultation with the Course Coordinator.

Master of Health Science Education by Coursework

This course offers professional development for managers of learning in the health sciences, including health education. The course structure reflects the need for educators to first understand the processes of teaching and learning from both a theoretical and practical perspective, in order to positively influence and manage curricular practice in the many settings for education in health. Year 1 develops knowledge and skills in effective class and clinical teaching; Year 2 extends competence to planning, processing and evaluating more complex educational experiences and curriculum and Year 3 enables participants to apply their knowledge of education to a problem or issue in curriculum design, innovation or evaluation. Participants with a health education focus use an extensive elective program to extend their knowledge of the many settings, populations, health issues and approaches to change that relevant to this field.

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

Admission Requirements

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

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

Course Outline

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

Subject Descriptions

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

08511 Project Seminar

Semester 1-3 units

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

08512 Investigative Project A

Pre-requisite or Co-requisite 08511 Project Seminar PLUS 2

Research Electives - 12 units

This project provides participants with an opportunity to either undertake a major investigation project of a significant educational topic or issue, or complete a plan for a needs assessment, curriculum development or evaluation.

08554 Investigate Project B

Pre-requisite or Co-requisite 08511 Project Seminar PLUS 1

Research Elective - 20 units.

This project provides participants with an opportunity to either undertake a major investigation project of a significant educational topic or issue, or complete a plan for a needs assessment, curriculum development or evaluation."

Electives

Participants complete a total of three (3) electives during the course. Each subject is 5 units value. For elective subject descriptions, see Appendix 1.

Research Elective

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

Table 8.7 Master of Health Science (Education) by Research

Course		Total	Sem 1	Sem 2
<i>Code</i>	<i>Mode of Offer for Students entering with a Bachelor degree</i>			
0827	Full-time; 4 Semesters			
0828	Part-time; 6 Semesters			
Full-time Mode				
<i>Year 1</i>				
	Research Elective A	8	8	-
	Research Elective B	8	-	8
08518	Research Seminar I	-	-	-
<i>Year 2</i>				
	Research Elective C	8	8	-
	Research Elective D	8	-	8
08519	Research Thesis	-	-	-
08553	Research Seminar II	-	-	-

Part-time Mode

Year 1

	Research Elective A	8	8	-
	Research Elective B	8	-	8
	<i>Stage Total</i>	<i>16</i>	<i>8</i>	<i>8</i>

Year 2

	Research Elective C	8	8	-
	Research Elective D	8	-	8
08518	Research Seminar I	-	-	-

Year 3

08519	Research Thesis	-	-	-
08553	Research Seminar II	-	-	-

Notes

Research elective subjects: students select four electives relevant to educational research, and normally offered through the Faculty (subject to sufficient numbers). (See Appendix 1)
Issues in Educational Research is required to be taken by all students.

Master of Health Science (Education) by Research

This course is designed to provide participants with the opportunity to undertake research into the process of teaching and learning in their professions. Graduates from this course will be able to undertake research in education and also contribute to research activities in their professional field.

Admission Requirements

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

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

Course Outline

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

Subject Descriptions

08518 Research Seminar I

Semester 1 and 2 - 6 units

This subject is designed to orient students to study by research and to give formal structure to support the development of a research proposal.

08519 Research Thesis

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

08553 Research Seminar II

Semester 1 and 2 - 6 units

This subject is a continuation of Research Seminar I.

Research Electives

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

Table 8.8 Graduate Diploma in Community Health

Course

Code	<i>Mode of Offer</i>
0834C	Full-time; 1 Year
0837P	Part-time; 2 Years
Units:	65

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
08440	Health Promotion	6	-	6
08441	Program Planning and Evaluation	6	6	-
08444	Integrative Paper	8	-	8
08521	Introduction to Community Health Policy and Services	6	6	-
08522	Introduction to Epidemiology and Biostatistics	6	6	-
08523	Australian Society and Health	6	6	-
08524	Critical Appraisal	6	-	6
08529	Management and Problem Solving	6	6	-
	Elective ¹	5	5	-
	Elective ¹	5	-	5
	Elective ¹	5	-	5
	<i>Stage Total</i>	<i>65</i>	<i>35</i>	<i>30</i>

Part-time Mode

<i>Year 1</i>				
08440	Health Promotion	6	-	6
08521	Introduction to Community Health Policy and Services	6	6	-
08522	Introduction to Epidemiology and Biostatistics	6	6	-
08523	Australian Society and Health	6	6	-
	Elective ¹	5	-	5
	Elective ¹	5	-	5
	<i>Stage Total</i>	<i>34</i>	<i>18</i>	<i>16</i>

Year 2

08441	Program Planning and Evaluation	6	6	-
08444	Integrative Paper	8	-	8
08524	Critical Appraisal	6	-	6
08529	Management and Problem Solving	6	6	-
	Elective ¹	5	5	-
	<i>Stage Total</i>	<i>31</i>	<i>17</i>	<i>14</i>

Notes

¹ Electives: The following electives may be offered, subject to sufficient student numbers and staff availability. Each subject is 5 units. Electives from other courses in the University can be taken by students after consultation with the Community Health Co-ordinator and the appropriate School or Department.

Faculty Electives

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

Graduate Diploma in Community Health

This course provides general and specialist community health practitioners with a core of knowledge and skills appropriate to the effective practice of primary health care in a multi-disciplinary team setting. The course focuses on the health needs of disadvantaged groups in society and provides training in community health theory and practice, administration and management, health promotion, epidemiology and elective subjects with special relevance to the occupational roles of participants.

Admission Requirements

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

Course Outline

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

Subject Descriptions

08440 Health Promotion

Semester 2 - 6 units

This subject provides an introduction to the principles and processes of major approaches to health promotion.

08441 Program Planning and Evaluation

Semester 1 - 6 units

The aim of this subject is to examine factors and elements involved in the process of planning and evaluating community health programs.

08444 Integrative Paper

Semester 2 - 8 units

This subject integrates the course through a literature review of a specific aspect of community health.

08521 Introduction to Community Health Policy and Services

Semester 1 - 6 units

This subject introduces students to basic principles, concepts and policies which underpin the practice of community health. Major topics include the formal structure and organisation of the Australian healthcare system, approaches to health needs assessment, and the development of appropriate local level strategies.

08522 Introduction to Epidemiology and Biostatistics

Semester 1 - 6 units

This subject introduces students to the principles of epidemiology and their application to community health problems.

08523 Australian Society and Health

Semester 1 - 6 units

This subject examines the relationship between social inequality and the distribution of health in Australian society. It explores the relevance of an analysis of socio-political relations and processes for understanding these patterns.

08524 Critical Appraisal

Semester 2 - 6 units

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

08529 Management and Problem Solving

Semester 1-6 units

This subject will develop appropriate skills in day-to-day administration and management within a multidisciplinary team setting.

Electives

Semester 1 - 5 units

Semester 2 - 5 units

Students study two elective subjects in the first year and one in the second year of their course work. Each elective is 28 hours in duration. The electives will be offered subject to student numbers and staff availability. For elective subject descriptions, see below.

Table 8.9 Master of Community Health*Course**Code Mode of Offer*0817C *Full-time; 1½ Years*0836P *Part-time; 3 Years**Units: 98***Full-time Mode**

		Total	Sem 1	Sem 2
<i>Year 1</i>				
08440	Health Promotion	6	-	6
08441	Program Planning and Evaluation	6	6	-
08521	Introduction to Community Health Policy and Services	6	6	-
08522	Introduction to Epidemiology and Biostatistics	6	6	-
08523	Australian Society and Health	6	6	-
08524	Critical Appraisal	6	-	6
08525	Research Seminar I	6	-	6
08529	Management and Problem Solving	6	6	-
	Elective ¹	5	5	-
	Elective ¹	5	-	5
	Elective ¹	5	-	5
	Research Elective ²	8	-	8
	<i>Stage Total</i>	<i>71</i>	<i>35</i>	<i>36</i>
<i>Year 2</i>				
08526	Research Seminar II	6	6	-
08527	Research Seminar III	6	6	-
08528	Treatise	15		
	<i>Stage Total</i>	<i>27</i>		
Part-time Mode				
<i>Year 1</i>				
08440	Health Promotion	6	-	6
08521	Introduction to Community Health Policy & Services	6	6	-
08522	Introduction to Epidemiology and Biostatistics;	6	6	-
08523	Australian Society and Health	6	6	-
	Elective ¹	5	-	5
	Elective ¹	5	-	5
	<i>Stage Total</i>	<i>34</i>	<i>18</i>	<i>16</i>
<i>Year 2</i>				
08441	Program Planning and Evaluation	6	6	-
08524	Critical Appraisal	6	-	6
08525	Research Seminar I	6	-	6
08529	Management and Problem Solving	6	6	-
	Elective ¹	5	5	-
	Research Elective ²	8	-	8
	<i>Stage Total</i>	<i>37</i>	<i>17</i>	<i>20</i>
<i>Year 3</i>				
08526	Research Seminar II	6	6	-
08527	Research Seminar III	6	-	6
08528	Treatise	15		
	<i>Stage Total</i>	<i>27</i>		

Notes

¹ Electives: The following subjects may be offered subject to sufficient student numbers and staff availability. Each elective is 5 units. Electives from other courses in the University may be taken by students after consultation with the Community Health Co-ordinator and the appropriate School or Department.

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

² Research Electives: Students will select with the aid of their supervisor an appropriate Research Elective from the Faculty wide Masters Research Electives. See Appendix 1.

Master of Community Health

This course aims to provide advanced training in Community Health theory and practice as well as further training in research. It is designed to equip graduates to occupy senior professional positions in the field. The first stage of the program is similar in content to the Graduate Diploma in Community Health but has the additional requirement of a research elective and preparation of a Treatise.

Admission Requirements

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

Course Outline

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

Subject Descriptions

For descriptions of subjects common to the Graduate Diploma in Community Health see pages 8-24.

08525 Research Seminar I

Semester 2 - 6 units

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

08526 Research Seminar II

Semester 1-6 units

This subject is a continuation of Research Seminar I (08525).

08527 Research Seminar III

Semester 1 - 6 units (F/T)

Semester 2 - 6 units (P/Tj)

This subject is a continuation of Research Seminar II (08526).

08528 Treatise

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

Research Elective

Semester 2- 8 units

Students select one research elective (subject to sufficient student numbers) in consultation with the Course Co-ordinator. For research elective subject descriptions, see Appendix 1.

Table 8.10 Master of Health Science (Community Health) by Research

Course

Code	Mode of Offer
0821	Full-time; 2 Years
0822	Part-time; 4 Years

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
08531	Research Seminar I	6	6	
08532	Research Seminar II	6		6
08569	Advanced Professional Studies I	6	6	
08570	Advanced Professional Studies II	6		6
08571	Research Thesis Preparation	6	3	3
	Research Elective A	8	8	or 8
	Research Elective B	8	8	or 8
	<i>Stage Total</i>	46		
<i>Year 2 (and subsequent years)</i>				
08530	Research Thesis			

Part-time Mode

<i>Year 1</i>				
08569	Advanced Professional Studies I	6	6	
08570	Advanced Professional Studies II	6		6
	Research Elective A	8	8	or 8
	<i>Stage Total</i>	20		
<i>Year 2</i>				
08531	Research Seminar I	6	6	
08532	Research Seminar II	6		6
08571	Research Thesis Preparation	6	3	3
	Research Elective B	8	8	or 8
	<i>Stage Total</i>	26		
<i>Year 3 (and subsequent years)</i>				
08530	Research Thesis	-	-	-

Master of Health Science (Community Health) by Research

This course provides the opportunity for research in community health.

Admission Requirements

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

1. Have completed a bachelor degree in an area of relevance such as health, welfare, social, behavioural or biological sciences;
OR
2. Submit such other evidence of general and professional qualifications and experience as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue independent research, AND

3. In addition, meet any other requirements for admission to the program as may be prescribed.

Note:

Applicants who have completed an approved Bachelor degree at Honours level may apply for admission to Year 2 of the program.

Course Outline

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

Subject Descriptions

08530 Research Thesis

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

08531 Research Seminar I*6 units*

The seminars provide opportunities, through discussion, for a better understanding of individual project aims, procedures and findings, and a deeper appreciation of the role of scientific enquiry in advancing knowledge.

08532 Research Seminar II*6 units*

This subject is a continuation of Research Seminar I.

08569 Advanced Professional Studies I*6 units*

This subject is designed to ensure that students undertaking research in Community Health have developed an appropriate conceptual and substantive foundation for their area of investigation. Content and teaching/learning mode will reflect individual student needs and will be determined in consultation between the student, supervisor and Course Coordinator.

08570 Advanced Professional Studies II*6 units*

This subject is a continuation of Advanced Professional Studies I.

08571 Research Thesis Preparation*6 units*

Thesis preparation involves regular consultation with the supervisor concerning the design of the project, ethical considerations, the selection of a suitable methodology and methods of data collection.

Table 8.11 Graduate Diploma in Gerontology*Course*

<i>Code</i>	<i>Mode of Offer</i>
0838	Part-time; 2 Years
0835	Full-time; 1 Year
<i>Units:</i>	66

Part-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
08455	Community Health Issues in Gerontology	6		6
08483	Introduction to Gerontology	6	6	
08484	Methodological Issues in Gerontology	6		6
08485	Institutional Issues in Gerontology	6		6
10454	Behavioural Aspects of Ageing	6	6	
11502	Biological Aspects of Ageing	6	6	
	<i>Stage Total</i>	<i>36</i>	<i>18</i>	<i>7S</i>
<i>Year 2</i>				
08469	Special Investigation	8	4	4
08474	Program Planning and Evaluation	6	6	
08486	Options in Later Life	6		6
	Elective ¹	5	5	-
	Elective ¹	5	-	5
	<i>Stage Total</i>	<i>30</i>	<i>15</i>	<i>15</i>

Full-time Mode

<i>Year 1</i>				
08455	Community Health Issues in Gerontology	6		6
08469	Special Investigation	8	4	4
08474	Program Planning and Evaluation	6	6	
08483	Introduction to Gerontology	6	6	
08484	Methodological Issues in Gerontology	6		6
08485	Institutional Issues in Gerontology	6		6
08486	Options in Later Life	6		6
10454	Behavioural Aspects of Ageing	6	6	
11502	Biological Aspects of Ageing	6	6	-
	Elective ¹	5	5	
	Elective ¹	5	-	5
	<i>Stage Total</i>	<i>66</i>	<i>33</i>	<i>33</i>

Notes

¹ Students will study a total of two electives, normally one in each Semester. Each elective is 5 units. The electives offered may vary according to staff availability and student demand. With the approval of the Head of School, students may also choose appropriate electives from subjects within other graduate courses. Electives include:

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

Graduate Diploma in Gerontology

This course provides for the development of knowledge and skills relevant to professional practice in the area of gerontology. Graduates will be equipped for employment in a wide range of work settings which require an understanding of the ageing process and of age related issues and services.

Admission Requirements

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

Course Outline

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

Subject Descriptions

08455 Community Health Issues in Gerontology

Semester 2 - 6 units

This subject examines factors affecting the health and well-being of older people in the community, including the provision of supportive services.

08469 Special Investigation

Semester 1-4 units

Semester 2 - 4 units

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

08474 Program Planning and Evaluation

Semester 1-6 units

The aim of this subject is to examine the process of planning, evaluating and improving programs for older people. The content will focus on consumer participation and teamwork in all stages of this process. Students will gain experience in using a variety of planning and evaluation strategies (e.g., problem solving).

08483 Introduction to Gerontology

Semester 1 - 6 units

This subject aims to provide students with an understanding of gerontology as a unique matrix of disciplines and perspectives focused on the interaction of individual and

social processes of ageing and on the dynamics of ageing populations. It demonstrates the need for integration of various academic disciplines and professional applications in the study of ageing and older people.

08484 Methodological Issues in Gerontology

Semester 2 - 6 units

This subject aims to develop a critical approach to methodological issues involved in the study of ageing and older people and to provide a knowledge base for the subject Special Investigation.

08485 Institutional Issues in Gerontology

Semester 2 - 6 units

The aim of this multidisciplinary subject is to examine the socio-political context of institutional accommodation for older people and the institutional environment itself from the perspective of the residents' experience of well-being.

08486 Options in Later Life

Semester 2 - 6 units

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

10454 Behavioural Aspects of Ageing

Semester 1 - 6 units

Cognitive, perceptual, sensory, motor and personality development in later life will be studied in relation to social theories of ageing and typical life events of older people.

11502 Biological Aspects of Ageing

Semester 1 - 6 units

This subject studies human ageing from biological perspectives. The emphasis is on understanding the main features of 'normal' ageing or senescence as distinct from disease processes and the contribution of environmental factors to ageing.

Electives

Semester 1 - 5 units

Semester 2 - 5 units

Students will study a total of two elective units, one in each Semester. Each unit is 5 units. The electives offered may vary according to staff availability and student demand.

Table 8.12 Master of Gerontology

Course

Code *Mode of Offer*
 0842 *Part-time; 3 Years*
 0833 *Full-time; 1 V₂ Years*
Units: 98

Part-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
08455	Community Health Issues in Gerontology	6		6
08483	Introduction to Gerontology	6	6	
08484	Methodological Issues in Gerontology	6		6
08485	Institutional Issues in Gerontology	6		6
10454	Behavioural Aspects of Ageing	6	6	
11502	Biological Aspects of Ageing	6	6	
<i>Stage Total</i>		36	18	18
<i>Year 2</i>				
08474	Program Planning and Evaluation	6	6	
08486	Options in Later Life	6		6
084A1	Treatise Preparation	6	-	6
	Elective ¹	5	5	-
	Elective ¹	5	-	5
	Research Elective ²	8	8	or 8
<i>Stage Total</i>		36		
<i>Year 3</i>				
08494	Treatise	18	-	-
08495	Professional Development	8	4	4
<i>Stage Total</i>		26		

Full-time Mode

<i>Year 1</i>				
08455	Community Health Issues in Gerontology	6		6
08474	Program Planning and Evaluation	6	6	
08483	Introduction to Gerontology	6	6	
08484	Methodological Issues in Gerontology	6		6
08485	Institutional Issues in Gerontology	6		6
08486	Options in Later Life	6		6
084A1	Treatise Preparation	6		6
10454	Behavioural Aspects of Ageing	6	6	
11502	Biological Aspects of Ageing	6	6	
	Elective ¹	5	5	
	Elective ¹	5	-	5
	Research Elective ²	8	8	or 8
<i>Stage Total</i>		72		
<i>Year 2</i>				
08494	Treatise	18	-	-
08495	Professional Development	8	8	-
<i>Stage Total</i>		26		

Notes

¹ Electives: Students will study a total of two elective subjects. Each subject is 5 units. Two subjects may be taken in one Semester, or one subject in two Semesters. The electives offered may vary according to staff availability and student demand. With the approval of the School, students may also choose appropriate electives from subjects within other graduate courses. Electives include:

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

² Research Elective: Students select one research subject (subject to sufficient student numbers and staff availability) in consultation with the Course Co-ordinator. For list of Research Electives See Appendix 1. Full-time students may choose to undertake this subject in Year 2.

Master of Gerontology

This course provides advanced training in gerontological theory and practice. It is designed to equip graduates with in-depth understanding of ageing and age-related issues. Graduates will be equipped to occupy senior positions in a variety of planning, service delivery, educational and other settings.

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

Admission Requirements

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

Course Outline

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

Subject Descriptions

Some subjects are common to the Graduate Diploma in Gerontology. Please refer to subject descriptions on page 8-29.

084A1 Treatise Preparation

6 units

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

08494 Treatise

18 units

The general aim of this subject is to synthesise post-graduate learning into a final project relevant to some aspect of gerontology. The topic and approach having been refined through participation in Treatise Preparation, students now conduct and write up their project under the supervision of one or more members of the academic staff.

08495 Professional Development

F/T Semester 1 - 8 units

P/T Semester 1 - 4 units

P/T Semester 2 - 4 units

This subject aims to enable participants to acquire and extend scholarly skills which will contribute to effective involvement in their profession.

Research Elective

Semester 1 or 2 - 8 units

Students select a subject (subject to sufficient student numbers) in consultation with the Course Co-ordinator. For research elective subject descriptions, see Appendix 1.

Table 8.13 Master of Health Science (Gerontology) by Research

Course

Code Mode of Offer

0816 *Special Program - School of Community Health*

0831 *Full-time; 2 Years*

0832 *Part-time; 4 Years*

Full-time Mode

			Total	Sem 1	Sem 2
<i>Year 1</i>					
08542	Research Seminar I		6	6	
08543	Research Seminar II		6		6
08572	Advanced Professional Studies I		6	6	
08573	Advanced Professional Studies II		6		6
08574	Research Thesis Preparation		6	3	3
	Research Elective A		8	8	or 8
	Research Elective B		8	8	or 8
	<i>Stage Total</i>		<i>46</i>		
<i>Year 2 (and subsequent years)</i>					
08541	Research Thesis		-	-	-
Part-time Mode					
<i>Year 1</i>					
08572	Advanced Professional Studies I		6	6	
08573	Advanced Professional Studies II		6		6
	Research Elective A		8	8	or 8
	<i>Stage Total</i>		<i>20</i>		
<i>Year 2</i>					
08542	Research Seminar I		6	6	
08543	Research Seminar II		6		6
08574	Research Thesis Preparation		6	3	3
	Research Elective B		8	8	or 8
	<i>Stage Total</i>		<i>26</i>		
<i>Year 3 (and subsequent years)</i>					
08541	Research Thesis		-	-	-

Master of Health Science (Gerontology)

by Research

This course provides the opportunity for research in gerontology.

Admission Requirements

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

1. have completed a bachelor degree in an area of relevance such as health, welfare/social, behavioural or biological sciences;
OR
2. submit such other evidence of general and professional qualifications and experience as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue independent research.

3. Satisfy such additional requirements for admission to the program, if any, as may be prescribed.

Notes:

Applicants who have completed an approved Bachelor degree at Honours level may apply for admission to Year 2 of the program.

Course Outline

The course outline for the Master of Health science (Gerontology) by Research is presented in Table 8.13.

Subject Descriptions

08541 Research Thesis

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

08542 Research Seminar I*6 units*

The seminars provide opportunities, through discussion, for a better understanding of individual project aims, procedures and findings, and a deeper appreciation of the role of scientific enquiry in advancing knowledge.

08543 Research Seminar II*6 units*

This subject is a continuation of Research Seminar I.

08572 Advanced Professional Studies I*6 units*

This subject is designed to ensure that students undertaking research in Gerontology have developed an appropriate conceptual and substantive foundation for their area of investigation. Content and teaching/learning mode will reflect individual student needs and will be determined in consultation between the student, supervisor and Course Coordinator.

08573 Advanced Professional Studies II*6 units*

This subject is a continuation of Advanced Professional Studies I.

08574 Research Thesis Preparation*6 units*

Thesis preparation involves regular consultation with the supervisor concerning the design of the project, ethical considerations, the selection of a suitable methodology and methods of data collection.

Table 8.14 Graduate Diploma in Rehabilitation Counselling*Course**Code Mode of Offer**0801 Full-time; 1 Years**0809 Part-time; 2 Years (no commencing students 1996)**0855 Off Campus; 2 Years***Full-time Mode**

		Total	Sem 1	Sem 2
<i>Year 1</i>				
08407	Counselling	12	6	6
08409	Rehabilitation	12	8	4
08411	Independent Study	6	-	-
08415	Vocational Rehabilitation	12	6	6
08416	Rehabilitation of Special Groups	10	5	5
08417	Field Experience	12	1	5
	<i>Stage Total</i>	64		

Part-time Off-Campus Mode*Year 1*

08409	Rehabilitation	12	8	4
08411	Independent Study ²	6	-	-
08416	Rehabilitation of Special Groups	10	5	5
08419	Field Experience B	6	-	6
	<i>Stage Total</i>	34		

Year 2 (offered in 1996)

08407	Counselling	12	6	6
08415	Vocational Rehabilitation	12	6	6
08418	Field Experience A	6	-	6
	<i>Stage Total</i>	30		

Notes

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

² For students enrolled in second year only.

³ May be completed in either Semester or during inter-Semester break.

Graduate Diploma in Rehabilitation Counselling

This course can be completed on a one-year full-time basis or over two years via the off-campus (distance education) mode.

Admission Requirements

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

Course Outline

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

Subject Descriptions

08407 Counselling

Semester 1 - 6 units

Semester 2 - 6 units

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

08409 Rehabilitation

Semester 1 - 6 units

Semester 2 - 6 units

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

08411 Independent Study

6 units

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

08415 Vocational Rehabilitation

Semester 1 - 6 units

Semester 2 - 6 units

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

08416 Rehabilitation of Special Groups

Semester 1 - 5 units

Semester 2 - 5 units

The subject introduces students to the rehabilitation needs and range of services provided for the physically disabled, psychiatric clients, those who abuse drugs and alcohol, public offenders, the intellectually handicapped, migrants, the elderly, traumatically brain injured, people with HIV/ Aids, and the sensory impaired.

08417 Field Experience

12 units

08418 Field Experience A#

6 units

08419 Field Experience B#

6 units

Students are assigned selected cases in rehabilitation agencies and are required to carry out a range of tasks appropriate to a rehabilitation counsellor, with supervision from a qualified professional. Students are required to complete a total of 385 hours of placement under supervision.

08417 385 hours 08418 293 hours 08419 292 hours

Table 8.15 Master of Rehabilitation Counselling (by Coursework)

Course

<i>Code</i>	<i>Mode of Offer</i>
0823	Full-time; 11/2 Years (3 Semesters) Units 96
0824	Part-time; 3 Years (6 Semesters) (no commencing students 1996) Units 96
0854	Off-Campus; 3 Years (6 Semesters) Units 96

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
08407	Counselling	12	6	6
08409	Rehabilitation	12	8	4
08415	Vocational Rehabilitation	12	6	6
08416	Rehabilitation of Special Groups	10	5	5
08417	Field Experience	1 ¹	1	5
	Research Elective	8 ²		6
	<i>Stage Total</i>	<i>66</i>		
<i>Year 2 (Semester 1)</i>				
08540	Treatise	30	-	-

Part-time Off-Campus Mode

<i>year 1</i>				
08409	Rehabilitation	12	8	4
08416	Rehabilitation of Special Groups	10	5	5
08419	Field Experience B	6	-	6
	Research Elective	8 ⁴		-
	<i>Stage Total</i>	<i>36</i>		
<i>Year 2 (offered in 1996)</i>				
08407	Counselling	12	6	6
08415	Vocational Rehabilitation	12	6	6
08418	Field Experience A	6	-	6
	<i>Stage Total</i>	<i>30</i>		

Year 3

08540	Treatise	30	-	-
-------	----------	----	---	---

Notes

- ¹ Includes two 5-week (175 hours) block placements, at separate agencies, complemented by pre-placement tutorials. The first placement will be undertaken in the inter-Semester recess.
- ² Research Elective: Students select one of the subjects in consultation with the course coordinator. These subjects are each 8 units and can be taken in either Semester 1 or Semester 2. For the list of Research Electives see Appendix 1.
- ³ May be completed in either Semester or during inter-Semester break.
- ⁴ For students enrolled in second year only.

Master of Rehabilitation Counselling (by Coursework)

This course can be completed on a 3 Semester full-time basis or over 6 Semesters off-campus.

Admission Requirements

To qualify for admission to the Master degree by coursework in rehabilitation counselling applicants must:

1. have completed a bachelor degree in an appropriate area other than rehabilitation counselling;

OR

2. submit such other evidence of general and professional qualifications and experience as will satisfy the Academic Board that the applicant possesses the educational preparation and capacity to undertake the coursework and treatise requirements, and satisfy such additional requirements for admission to the program, if any, as may be prescribed by the Academic Board.
3. It is desirable that applicants have had experience of at least one year in some aspect of rehabilitation, either in work or on a voluntary basis.

Course Outline

The Course Outline for the Master of Rehabilitation Counselling is presented in Table 8.15.

Subject Descriptions

08407 Counselling

Semester 1-6 units
Semester 2 - 6 units

This subject covers the main theoretical positions: namely, humanistic, behaviouristic and psychodynamic. Practical activities are devoted to helping relationship skills, influencing skills, group counselling and behavioural techniques.

08409 Rehabilitation

Semester 1-8 units
Semester 2 - 4 units

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

08415 Vocational Rehabilitation

Semester 1-6 units
Semester 2 - 6 units

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

08416 Rehabilitation of Special Groups

Semester 1 - 5 units
Semester 2- 5 units

The subject introduces students to the rehabilitation needs and range of services provided for the physically disabled, psychiatric clients, those who abuse drugs and alcohol, public offenders, the intellectually handicapped, migrants, the elderly, the traumatically brain injured, people With HIV/Aids, and the sensory impaired.

08417 Field Experience*

12 units

08418 Field Experience*

6 units

08419 Field Experience*

6 units

Students are assigned selected cases in rehabilitation agencies and are required to carry out a range of tasks appropriate to a rehabilitation counsellor, with supervision from a qualified professional. Students are expected to undertake a total of 385 hours field experience.

08540 Treatise

30 units

The treatise requires the completion of a paper which aims to synthesise post-graduate knowledge and skills through an original investigation of an area of professional relevance.

Research Elective

Semesters 1 or 2-8 units

Students select a research elective (subject to sufficient student numbers) in consultation with their supervisor.

Table 8.16 Master of Health Science (Rehabilitation Counselling)

For students who commenced prior to 1992.

Course

Code Mode of Offer

0816 Special Program -School of Community Health

0815 Part-time; 4 Years

For students commencing in 1992 or later.

Course

Code Mode of Offer

0848 Full-time; minimum 2 Years

0849 Part-time; minimum 4 Years

For students who commenced prior to 1992.

Part-time Mode

		Total	Sem 1	Sem 2
<i>Year 3</i>				
08422	Research Thesis			
08423	Research Thesis Seminar I	2	1	1
<i>Year 4</i>				
08422	Research Thesis			
08424	Research Thesis Seminar II	2	1	1

* Includes 5-week block in inter-Semester break.

Total of 192 hours which may be completed in either Semesters or inter-Semester break by part-time students.

For students commencing in 1992 or later.

Full-time Mode

All students undertake the following subjects:

<i>Year 1</i>					
08420	Advanced Professional Studies I ²	10	10		
08544	Thesis Workshop I Research Elective ¹	4 8	2 8	or	2 8
		<i>Stage Total</i>			
<i>Year 2</i>					
08421	Advanced Professional Studies II ²	10			10
08422	Research Thesis				
08545	Thesis Workshop II	4	2		2
<i>Year 3 and subsequent years</i>					
08422	Research Thesis	-	-		-

Part-time Mode

All students will undertake the following subjects:

<i>Year 1</i>					
08420	Advanced Professional Studies I ²	5	2		3
08546	Thesis Workshop IA Research Elective ¹	2 8	1		1 8
		<i>Stage Total</i>			
<i>Year 2</i>					
08421	Advanced Professional Studies II ²	5	2		3
08547	Thesis Workshop IB	2	1		1
		<i>Stage Total</i>			
<i>Year 3</i>					
08422	Research Thesis				
08548	Thesis Workshop IIA	2	1		1
<i>Year 4</i>					
08422	Research Thesis				
08549	Thesis Workshop IIB	2	1		1
<i>Year 5 (and subsequent years)</i>					
08422	Research Thesis	-	-		-

Notes

¹ Research Elective: Students select a maximum of two of the subjects (subject to sufficient student numbers) in consultation with their supervisor. For a list of Research Electives see Appendix 1.

² In consultation with their thesis supervisor, students will elect to undertake studies considered relevant to their topic.

Master of Health Science (Rehabilitation Counselling)

This course provides the opportunity for research in the areas of rehabilitation, rehabilitation counselling, rehabilitation administration, and the management of rehabilitation resources. The purpose of the coursework is to assist the student to identify a research topic and develop research questions concerning that topic.

Admission Requirements

1. Graduate Diploma of Health Science (Rehabilitation Counselling);
OR
2. Associate Diploma of Health Science (Rehabilitation Counselling) plus a bachelor's degree with a major in psychology or other behavioural science subject;
OR
3. General and professional qualifications as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies.

In addition, the applicant shall satisfy such additional requirements for admission to the program, if any, as may be prescribed by the Faculty. The applicant shall normally have had a minimum of one year of full-time relevant work experience in a rehabilitation setting.

Course Outline

The course outline for the Master of Health Science (Rehabilitation Counselling) is presented in Table 8.16.

Subject Descriptions

08900 Special Program - School of Community Health

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

08420 Advanced Professional Studies I *Semester 1-5 units*

Current approaches, to rehabilitation in the provision of health and welfare services are critically appraised in terms of their adequacy for meeting the demands of consumers. Future trends are also considered and their implications for service providers and consumers are examined. Two strands are Current Issues and Future Perspectives; and Rehabilitation Administration.

08421 Advanced Professional Studies II *Semester 2-5 units*

Conceptual models and research findings are examined in the area of rehabilitation counselling with particular emphasis on how well theory and technique translate into the systematic application of counselling procedures to the process of rehabilitation appropriate to the individual client's needs. The two compulsory units are:

- Contemporary counselling theories and practices
- Rehabilitation client assessment and evaluation

Students also select two (2) modules from:

- Rehabilitation counsellor training, professional development and supervision
- Advances in vocational psychology applied to rehabilitation counselling
- Impact of disability
- Independent living counselling

08422 Research Thesis

Each student is required to submit a research proposal by the end of the second Semester of the full-time program, or an equivalent time for part-time students. Students are allowed to proceed with the thesis only when the assessment requirements of the coursework for Year 1 of the full-time program have been met.

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

08423 Research Thesis Seminar I

08544 Thesis Workshop I

08546 Thesis Workshop IA

08547 Thesis Workshop IB

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

08424 Research Thesis Seminar II

08545 Thesis Workshop II

08548 Thesis Workshop IIA

08549 Thesis Workshop MB

These subjects are a continuation of the above subjects.

Research Elective

Semester 1 - 8 units

Semester 2 - 8 units

Students select two research electives (subject to sufficient student numbers) in consultation with their supervisors.

* Includes 5-week block in inter-Semester break.

Total of 192 hours which may be completed in either Semesters or inter-Semester break by part-time students.

Table 8.17 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) c.	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 first or second Semester

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 the Aboriginal Education Unit, 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 8.17.

Subject Descriptions

Years 1 and 2

08157 Anatomy Support (A)

Semester 1-52 hours

This subject commences two weeks prior to the start of the academic year. It begins by introducing students to the principles of studying anatomy and orienting them to the anatomy laboratories. The subject continues to be offered concurrently with the anatomy component of the student's course and provides the opportunity for students to revise and consolidate concepts covered in that component of their course.

08158 Anatomy Support (B)

Semester 2 - 28 hours

The subject 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 provides students with an opportunity to revise and consolidate content covered in human biology/physiology subjects. Both group and individual tuition is provided.

08162 Physics Support

Semester 1 - 52 hours

Semester 2 - 28 hours

The subject is designed for students enrolled in Medical Radiation Technology who may not have a strong background in physics. It aims at both preparing students for study in physics-related subjects, and the opportunity to revise and consolidate concepts covered in the physics component of their course. It also covers the mathematical concepts required.

08163 Research Methods Support (1)

Semester 1 or 2 - 28 hours

This subject aims to provide students with the opportunity to further understand and use experimental and descriptive research methods.

08151 Aboriginal Studies

Semester 1 or 2 - 14 hours

This subject examines the historical, social, economic and political factors relevant to Aboriginal people today, particularly in relation to health. The meaning of Aboriginality in contemporary society is explored, together with issues of Aboriginal identity.

08149 Study Skills

Semester 1 - 38 hours

Semester 2 - 14 hours

This subject introduces students to the skills needed for successful tertiary study, particularly related to health science courses. Topics covered include time management, research skills, exam preparation skills and writing skills.

08164 Professional Studies Support (1A)

Semester 1 or 2 - 14 hours

AND

08165 Professional Studies Support (1B)

Semester 1 - 14 hours

Semester 2 - 14 hours

These 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 subject depends on the course being undertaken by the student. The aim of the subject is to provide students with an opportunity to revise and consolidate the mathematical concepts/content covered in the biomedical sciences subjects.

Year 3

08255 Biomechanics Support (2)

Semester 1 or 2 - 28 hours

This subject aims to provide students in the second year of their degree course with the opportunity to consolidate and revise material covered in the biomechanics component of their course.

08256 Professional Studies Support (2)

Semester 1 - 14 hours

Semester 2 - 14 hours

This subject supports one or more of the professional subjects a student may be having difficulty with. It is based on individual student need.

08257 Research Methods Support (2A)

Semester 1 or 2 - 28 hours

AND

08258 Research Methods Support (2B)

Semester 1-28 hours

Semester 2-28 hours

These subject aims to provide students with the opportunity to further understand and use experimental and descriptive research methods.

Table 8.18 Aboriginal Health Science Preparatory Program

Course

Code Mode of Offer

0839 Full-time

0847 Part-time

		Hours	Sem 1	Sem 2
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>		<i>224</i>	<i>52</i>	<i>172</i>

Notes

¹ These hours will be undertaken by Full Time Students in 2nd Semester

Aboriginal Health Science Preparatory Program

Admission Requirements

Admission to the Aboriginal Health Science Preparatory Program is based on an assessment (including interview) conducted by the Aboriginal Education Unit. It is expected that students who do not meet the eligibility criteria under the Cadigal Policy, may apply for entry to the Preparatory Program. However it should be noted that successful completion of the Preparatory 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 8.18.

Subject Descriptions

08173 Anatomy Workshop

Semester 2 - 28 hours

This subject introduces the student to the study of anatomy. It covers topics such as anatomical language, histology, musculo-skeletal system, as well as the anatomy of various body systems. Emphasis is placed on acquiring the skills needed to study anatomy successfully including laboratory skills and learning anatomical language.

08174 Human Biology Workshop

Semester 2 - 42 hours

This subject introduces the 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 the student to the study of behavioural science. It uses topics such as health as the basis for exploring contemporary sociological and psychological theories. Emphasis is placed on developing skills needed to study behavioural science successfully including field observation, presenting seminars and reading research reports.

08138 Maths Workshop

Semester 1 or 2 - 42 hours

This subject aims to teach the numeracy students may need in their chosen course. It takes into account individual student's past experience of learning maths, and deals with issues such as maths anxiety. It aims to teach numeracy in the context of students' culture and their aspirations for undertaking study in a particular award course. The subject includes both group and individual tuition.

Field Experience/Professional Practice

(Rehabilitation Counselling)

Field Experience is an essential component in the overall process of developing professional competence and identity as a Rehabilitation Counsellor. It not only provides students with an opportunity to apply, integrate, reinforce and assess theoretical learning, but also allows them to appreciate the way in which rehabilitation counsellors and other allied professionals contribute to the effectiveness of the rehabilitation process.

Field placements are provided in a wide variety of rehabilitation and related health, welfare, vocational and independent living services in both the public and private sectors.

The objectives of field experience are that the students be provided with opportunities to:

- develop competence and professional identity as rehabilitation counsellors
- integrate theory taught at the University with practice learnt in the field. Field experience provides the context where all segments of the coursework merge and gain meaning
- develop an understanding of the values and principles of rehabilitation counselling practice as applied in different fields/levels of application
- develop knowledge and skills in various rehabilitation counselling methods and related activities under the guidance, supervision and support of experienced practitioners in the service delivery environment
- develop confidence, independence and autonomy as practitioners.

These objectives are fulfilled by placement blocks of supervised field practice complemented by supporting seminars, tutorials and agency visits. At least one placement is to be supervised by a practising/qualified rehabilitation counsellor.

Graduate Diploma (Rehabilitation Counselling) and **Masters (Rehabilitation Counselling)** students are required to complete 385 hours. This includes two field placements at separate agencies, as per dates below.

Bachelor of Health Science (Rehabilitation Counselling)

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

Assessment: a pass in this subject is dependent on assessment of each field placement on the basis of:

- agency supervisor's student evaluation
- a daily log or report on the field experience activities and impressions, including a case study
- satisfactory performance and attendance at the tutorials and agency visits/seminars component of the field experience program.

The Co-ordinator of Professional Practice can be contacted on Ext. 6329.

1996 Field Placement Dates

Graduate Diploma and Master in Rehabilitation Counselling

Semester 1

24 June to 26 July

Semester 2

21 October to 22 November

Bachelor of Health Science (Rehabilitation Counselling)

Year 1

75 hours during Semester and inter-Semester periods.

Year 2

24 June to 26 July (inter-Semester break)

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

Year 3

24 June to 26 July (inter-Semester break)

Note: Some modifications to these schedules may be arranged to accommodate time constraints of students in the part-time programs.

1996 Block Attendance Dates

Diploma of Health Science (Aboriginal Health and Community Development)

Year 1

Weeks commencing : February 26 & March 4; April 29 & May 6; August 5 & August 12; October 7 & October 14.

Year 2

Weeks commencing: March 11 & March 18; May 13 & May 20; August 19 & August 26; October 21 & October 28.

Year 3

Weeks commencing: April 15 & April 22; June 10 & June 17; September 16 & September 23.

Bachelor of Health Science (Aboriginal Health and Community Development) 3 Years Programme

Year 1

Weeks commencing : February 26 & March 4; April 29 & May 6; August 5 & August 12; October 7 & October 14.

Year 2

Weeks commencing: March 11 & March 18; May 13 & May 20; August 19 & August 26; October 21 & October 28.

Year 3

Weeks commencing: March 25 & April 1; May 27 & June 3; September 2 & September 9; November 4 & November 11.

Year 4

Weeks commencing: April 15 & April 22; June 10 & June 17; September 16 & September 23; November 18 & November 25.

Bachelor of Health Science (Aboriginal Health and Community Development) 3 Years Programme

Year 1

Weeks commencing : February 26, March 4, March 11 & March 18; April 29, May 6, May 13 & May 20; August 5, August 12, August 19 & August 26; October 7, October 14, October 21 & October 28.

Year 2

Weeks commencing: March 11, March 18, March 25 & April 1; May 13, May 20, May 27 & June 3; August 19, August 26, September 2 & September 9; October 21, October 28, November 4 & November 11.

Year 3

Weeks commencing: March 25, April 1, April 15 & April 22; May 27, June 3, June 10 & June 17; September 2, September 9, September 16 & September 23; November 4, November 11, November 18 & November 25.

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). 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. In addition, the School will offer Graduate Certificates in Casemix and Clinical Data Management from 1996,

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)

Course

Code Mode of Offer

0902 Pass Course; Full-time, 3 Years

0913 Honours Program; Full-time, 4 Years

		Total	Sem 1	Sem 2
<i>Year 1</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	-
CJ9138	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>		<i>642</i>	<i>326</i>	<i>32 284</i>

Year 2

09238	Programming Logic and Design	56	56	-		
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 IIA	42	42	-		
09251	Clinical Classification IIB	77	-	77		
09252	Management Principles I	28	28	-		
09253	Management Principles II	28	-	28		
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>	742	308	105	329

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	-			
09337	Evaluation of Quality in Health Care	28	-	28			
09339	Casemix Measurement Systems	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			
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	
		<i>Stage Total</i>	42		42

Year 4

	Research Elective ⁵	42	42	-	
09432	Research Seminar	56	28	28	
09433	Research Thesis	-	-	-	
09463	Research Proposal	28	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).

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 requisites for admission to the Bachelor of Applied Science (Health Information Management) course. Please refer to the General Admission Requirements in Chapter 3.

Course Outline

The Course Outlines for the Bachelor of Applied Science (Health Information Management) Pass and Honours courses are presented in Table 9.1.

Subject Descriptions

Year 1

09117 Clinical Classification I

Semester 2-56 hours

This subject introduces the student to the classification of diseases and procedures in medicine. It incorporates an overview of the historical development of clinical classification systems as well as the purpose and value of classification systems. The major emphasis is on a detailed study of the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM). Other topics include disease and operation indexing, the NSW Health Department's Inpatient Statistics Collection and NSW Maternal and Perinatal Collection.

09130 Health Information Systems II

Semester 2 - 42 hours

Pre-requisite Health Information Systems I (09137)

This subject builds onto Health Information Systems I with an integrated study of forms design and management, records used in special areas, such as community health, primary care and general practice, mental health and developmentally disabled records, rehabilitation and dental records, long term care, nursing homes and hospice records.

The study of general record management is also included and covers procedures and task allocation, dataflow, numbering systems and storage, subject classification, thesauri development, indexing theory, computer-aided records management, disposal schedules, vital records and disaster recovery. Within this subject, students also study in depth, an individually selected professional topic with a review of the literature and the presentation of a seminar paper.

09131 Australian Health Care Systems

Semester 1-28 hours

In this subject the Australian health care system is studied with emphasis on Commonwealth/State/Local Government responsibility, the NSW health care service structure, community health care and specialist health care services, professional associations and organisations. The role of medical and allied health professionals is covered. The subject also includes the study of hospital and health care statistics which encompass vital statistics, hospital census and bed returns, hospital workload and morbidity, mortality, infant, perinatal and maternal statistics. It also includes the definition of key terms used in hospital statistical reports, Department of Health definitions, and the analysis of statistical data.

09133 Medical Terminology I

Semester 1 - 42 hours

This subject is designed to introduce the student to the language necessary to understand the information contained in the medical record. The students study the basic concepts of medical terminology including the history and development of the medical language, roots, suffixes, prefixes, combining vowels and forms, medical, surgical and investigatory abbreviations relating to the body systems. Also included is the study of lay terms, eponyms, homonyms, medical and surgical specialists departments, and the use of a medical dictionary and MIMS.

09134 Medical Terminology II

Semester 2 - 42 hours

Pre-requisite Medical Terminology I (09133)

This subject builds on the knowledge gained in Medical Terminology I by the study of terms relating to body systems including disease titles and symptoms. Terms relating to specific operative procedures/surgical techniques and common laboratory tests are also studied as well as the use and analysis of terms used in discharge summaries and operation reports. Emphasis is placed on the identification, understanding and correct spelling of terms used in health care.

09135 Communication

Semester 1 - 42 hours

This subject has been developed to prepare the student for study at a tertiary level and to become an effective communicator, both verbally and in writing. Topics studied include the communication and perception processes, verbal and non-verbal communication, study skills, assignment writing, written communication and public speaking. Because students need to be proficient in literature searching this subject also includes an introduction to the Library, access to professional literature and audio-visual media, and referencing.

09136 Professional Experience I

Inter-semester - 32 hours (1 week)

Semester 1 - 32 hours

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 intersemester 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 an information system, the distinction between data capture and collection, the health record as an information system, the development of the health record during the health care process, and quality of medical recording. The role of the Health Information Manager (HIM) and functions of the medical record department are examined along with professional ethics and patient rights. The major component of this subject focuses on record management and covers patient identification, record numbering and filing systems, record control, retention and storage, discharge analysis, record content and structure including source-oriented medical records (SOMR) and problem-oriented medical records (POMR), patient confidentiality and release of information and records used for special purposes. This subject also includes an introduction to computers with an orientation to the VAX system, computerised patient administration systems including the Patient Master Index (PMI), Admissions, Transfers and Separations (ATS) studied through the HOSPAS and MP AS systems. The theory of information systems is complemented by observational visits during the semester.

09138 Medico-Legal Principles I

Semester 2 - 28 hours

In this subject students study legal principles relating to health care. Topics covered include the origin and development of the Australian legal system and the structure of the court system, legal personnel and litigation, subpoena of witnesses and records, the Law of Torts, rules of evidence, criminal law, law of contract and the Coroner's Court. The procedural implications of the above legal principles for health information management are covered.

09139 Microcomputer Applications

Semester 1 - 28 hours

In this subject students are introduced to microcomputers. This includes the MS-DOS Operating System, a spreadsheet and a wordprocessing package. The students evaluate advantages and limitations of microcomputers in comparison to mainframe computers.

101A2 Introduction to Psychology

Semester 1-42 hours

A general introduction to the theoretical approaches in psychology including human growth and development, perception, learning and memory, motivation, emotion, personality and intelligence.

101A3 Introduction to Sociology

Semester 2- 42 hours

An introduction to the theoretical approaches to sociology, including social organisation and health, historical and cross cultural patterns of health and illness, the nature of the Australian economy, the Australian political structure, the nature of class in Australia, gender relations, Australian aborigines, non-English speaking migrants and ageing in Australian society.

11162 Basic Human Biology I

Semester 1-42 hours

Semester 2 - 42 hours

This subject includes an introduction to human biology and the anatomy and physiology of the cardiovascular, endocrine, reproductive, respiratory and urinary systems. It aims to provide an understanding of the anatomy and physiology of the human body and introduces terminology associated with these fields. This subject includes some laboratory classes where anatomy is studied from models and human cadavers.

Year 2**09238 Programming Logic and Design**

Semester 1 - 56 hours

This subject introduces students to structured programming, using the language PASCAL. They learn the standard techniques generally employed in programming, the syntax of PASCAL, program design aids (Nassi-Shneiderman Diagrams), data types and data structures and the use of functions and procedures.

09239 Systems Analysis and Design

Semester 2 - 28 hours

In this subject students study structured system analysis including data flow diagrams, data dictionaries, decision tables and decision trees, 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 Programming Logic and Design (09238)

This subject covers the study of relational database design, using d-Base IV, 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 MA

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.

09253 Management Principles II

Semester 2 - 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.

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.

1028.4 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 HIM 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.

Year3

09316 Research Project

Semester 1 - 28 hours

Semester 2 - 42 hours

Pre-requisite Research Methods II: Data Analysis

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 1-28 hours

This subject covers institutional legal responsibilities in health care, and includes Commonwealth and NSW legislation relating to health care systems, and policies incorporated within the NSW Department of Health Patients Matters manual.

09337 Evaluation of Quality in Health Care

Semester 2 - 28 hours

In this subject students are introduced to the concepts of quality in health care and methods of health care evaluation. Topics covered include: structure, process and outcome measures; traditional quality evaluation techniques such as criteria audit, peer review and utilisation review; examination of variations in medical and surgical care; the development and calculation of quality indicators; methods of consumer evaluation of health care. Elements of an effective quality evaluation program and sources of information for use in evaluation are discussed. Industrial approaches to the evaluation of quality adapted for use in health, such as total quality management (TQM) are covered. In addition the evaluation of health care technologies, methods of changing health provider behaviour, health care accreditation and quality evaluation for health information services are included.

09339 Casemix Measurement Systems

Semester 1-42 hours

This subject is designed to cover a variety of casemix classification systems for acute and non-acute inpatients and ambulatory patients. The major emphasis will be on Diagnosis Related Groups (DRGs) with specific reference to the Australian National Diagnosis Related Groups (AN-DRGs). Casemix applications and current casemix initiatives will be explored.

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.

10395 Psychology of Work and Management

Semester 1 - 42 hours

Pre-requisite Social Psychology (10284)

This subject aims to bring behavioural science perspectives to the analysis of work, work behaviour and occupations as applied to health information management and includes work motivation, work satisfaction, work and the individual, the psychopathology of work, workstress, 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, normalisation 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 Secretary of 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

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 the Honours students with the opportunity to undertake an investigation of an area of specialised interest in health information management or a closely related area and prepare a written report including a description of the research question, the process of investigation, a literature review, the findings and their implications in relation to the management of health information.

09463 Research Proposal

Semester 1 - 28 hours

The aim of this subject is to allow the students to develop a formal research proposal for their intended research thesis. This will include the development of the research question, literature review, research design and proposed statistical analysis.

Table 9.2 Graduate Certificate in Casemix

Course

Code Mode of Offer

0914 Part-time, minimum 2 semesters

		Total	Sem 1	Sem 2
09501	Introduction to Casemix	8	8	
09502	Generating and Using Casemix Information	8	8	
09503	Casemix Funding and Financial Management	8		8
09504	Implementing Casemix Systems	8		8
<i>Stage Total</i>		32	16	16

Graduate Certificate in Casemix

This course is designed to enable graduates to obtain knowledge of the design, uses and evaluation of casemix systems. The Graduate Certificate is suitable for both managers and health professionals working with casemix information systems as well as senior managers who need to keep abreast of current casemix issues and their implications for health services management and planning.

Admission Requirements

1. A Bachelor degree from an Australian tertiary institution or
2. A Bachelor degree from an overseas institution equivalent to an Australian Bachelor degree or
3. Experience and/or qualifications as deemed appropriate by the Head of School.

Subject Descriptions

09501 Introduction to Casemix

Semester 1 - 8 units

The purpose of this subject is to introduce the concepts which underpin the design and use of casemix systems. The major emphasis is on the Australian National Diagnosis Related Groups (AN-DRGs) used in acute hospitals. However, the issues surrounding the use of casemix systems for non-acute inpatients and ambulatory patients are analysed also. The subject includes an introduction to the concepts of several applications of casemix information, but the details related to paying for care based on casemix are explored in the subject Casemix Funding and Financial Management. The current casemix initiatives of the Commonwealth, States and at the hospital level are explored along with likely future developments.

09502 Generating and Using Casemix Information

Semester 1-8 units

This subject is designed to give students practical experience in the production and analysis of casemix information. The subject will function as a companion to the subject Introduction to Casemix by giving students practical illustrations of the casemix concepts as they are introduced. The major emphasis will be on the AN-DRG system because suitable software is currently limited to that system. Software for other casemix systems will be introduced into the course as it becomes available.

09503 Casemix Funding and Financial Management

Semester 2 - 8 units

This subject is concerned with one of the main applications of casemix data, paying hospitals on the basis of their output. The various models used for casemix based payment systems in Victoria, Queensland and South Australia are explored. The subject explains the methods used to cost the activities of hospitals and set the prices of the AN-DRGs. Differences in the population and casemix based funding approaches are examined with special reference to experiences with integrating the two in NSW and Queensland. In addition, the potential role of casemix in a provider-purchaser split funding model is also considered. A casemix management game is used to provide insight into the potential impact of casemix based funding at the hospital level. The subject also examines the issues surrounding the use of casemix based budgeting within hospitals.

09504 Implementing Casemix Systems

Semester 2 - 8 units

The purpose of this subject is to give students the skills to implement casemix based systems and apply casemix concepts to common management problems. The practical problems of implementing casemix are addressed. These include: incorporating casemix information into the existing management information system; integrating casemix approaches with the existing utilisation review and quality assurance programs; educating staff about casemix issues; using casemix data to plan healthcare services; and analysing the current organisational structure to identify barriers to the use of casemix data to better manage the facility. The subject builds on the skills developed during the subject Generating and Using Casemix Information by using the same practical information based approaches.

Table 9.3 Graduate Certificate in Clinical Data Management

<i>Course Code</i>	<i>Mode of Offer</i>	Total	Sem 1	Sem 2
0915	Part-time, minimum 2 semesters			
09505	Fundamentals of Medicine and Medical Terminology	8	8	
09506	Introduction to Epidemiology and Statistics	8	8	
09507	Clinical Data Management and Clinical Trials	8		8
09508	Database Systems	8		8
<i>Stage Total</i>		32	16	16

Graduate Certificate in Clinical Data Management

This course is designed to provide health professionals with a working knowledge of the management of clinical data used in clinical trials and other projects. The course is suitable for health information managers, data managers and other health professionals working with, or planning to work with, clinical data and other health databases.

Admission Requirements

1. A Bachelor degree in an appropriate discipline from an Australian tertiary institution
- or
2. A Bachelor degree in an appropriate discipline from an overseas institute equivalent to an Australian Bachelor degree
- or
3. Experience and/or a qualification as deemed appropriate by the Head of School.

Applicants must be able to demonstrate familiarity with major microcomputing software such as DOS, WINDOWS, wordprocessing, a database package and a spreadsheet package.

Subject Descriptions

09505 Fundamentals of Medicine and Medical Terminology

Semester 1-8 units

This subject is designed to provide the student with the knowledge necessary to understand the information contained in health records, to function within a medical environment through an understanding of the fundamentals of medicine, and to effectively use disease classification systems. Within each body system, the student will study anatomy and physiology, disease processes and their treatment, and medical terminology disease titles, symptomatic terms, surgical terms and investigations. The subject also includes diagnostic tests, diagnostic procedures, radiology, nuclear medicine, radiation therapy and an introduction to pharmacology, pathology and cancer research.

09506 Introduction to Epidemiology and Statistics
Semester 1 - 8 units

This subject introduces the student to epidemiology through the study of historical aspects and design strategies in epidemiological research. This introduction 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 an introduction to statistics with descriptive statistics, sampling techniques, principles of hypothesis testing and some inferential statistical tests.

09507 Clinical Data Management and Clinical Trials

Semester 2 - 8 units

This subject will discuss in detail the processes involved in conducting clinical research and the role of the data manager in these processes. Areas covered include the stages in the development of a clinical trial, various design issues including blinding, crossover and factorial designs, randomisation and stratification, organisation and planning of trial research, forms design, data collection issues, methods of ensuring data quality including monitoring and auditing, ethical and regulatory issues, and reporting of results.

09508 Database Systems

Semester 2-8 units

This subject covers the study of relational database design, using SQL, dBase ACCESS and the Clinical Report System (CRS). This includes data structures, logic database design, the relational model and the functions of a database management system. It also introduces the student to Systems Analysis and Design, which includes the system life cycle, data flow diagrams, data dictionaries, cost/benefit analysis, scheduling (PERT and CPM) techniques, system testing and conversion, and data security

Table 9.4 Graduate Diploma of Applied Science (Health Information Management)

<i>Course</i>						
<i>Code</i>	<i>Mode of Otter</i>					
0906	Full-time, 1 Year					
		Total	Sem 1	Sem 2		
09422	Human Resource Management	2		2		
09425	Introduction to Data Processing and Microcomputers	2	2			
09429	Financial Management in Health Care Facilities	2	2			
09430	Computer Applications in Health Care	2	2			
09431	International Disease Classification Systems	5	2	3		
09434	Information Systems Management I	3	3			
09435	Health Care Systems	2	2			
09436	Information Systems Management II	3		3		
09438	Casemix Measurement Systems	3		3		
09439	Epidemiology	3		3		
09443	Medico-Legal Principles	3		3		
09445	Introduction to Programming and Database Design	5		5		
09446	Fundamentals of Medicine & Medical Terminology I	6	6			
09447	Fundamentals of Medicine & Medical Terminology II	6		6		
09448	Professional Experience	9	4 ¹	5 ²		
09451	Introduction to Management Principles	3	3			
09464	Evaluation of Quality in Health Care	2		2		
102B2	Research Methods I: Design	3	3			
<i>Stage Total</i>		64	25	4	30	5

Notes

- ¹ 2 weeks Inter-semester placement
- ² 2 weeks Post-semester placement

Graduate Diploma of Applied Science (Health Information Management)

The Graduate Diploma of Applied Science (Health Information Management) offers a specialised program in the professional area of health information/medical record management.

The course is designed to prepare specialists in the management of health information systems. It provides participants with a core of knowledge and skills appropriate to the effective practice of health information management. The course focuses on the information needs of health care professionals and facilities and provides a sound education in information systems management, microcomputing, programming, database design, medical terminology, medical science, medico-legal principles, management principles including human resource management, research methods and epidemiology, disease classification and casemix measurement systems, financial management in health care facilities and evaluation in health care.

Admission Requirements

1. A Bachelor degree in a related area from an Australian or Overseas Tertiary Institution and such relevant work experience as satisfies the Head of School, OR
2. Some other form of relevant qualification as satisfies the Head of School.

Course Outline

The Course Outline for the-Graduate Diploma of Applied Science (Health Information Management) is presented in Table 9.4.

Subject Descriptions

09422 Human Resource Management

Semester 2-2 units

This subject is designed to introduce the student to the human resource management functions relevant to the work of the Health Information Manager. Areas covered include recruitment and selection, staff appraisal, training and development and human resource planning'. The implications of equal employment and affirmative action legislation to human resource management are also covered.

The industrial relations framework in Australia with particular emphasis on the current workplace focus and conflict resolution are covered and students are also taught to prepare their own curriculum vitae.

09425 Introduction to Data Processing and Microcomputers

Semester 1-2 units

This subject introduces the student to microcomputers and mainframe computers and also deals with the history of computer technology, introduction to computer hardware and concepts, use of microcomputers and applications software. Areas studied include MS-DOS, WINDOWS, dBase IV and use of a spreadsheet package eg. Lotus 1-2-3.

09429 Financial Management in Health Care Facilities

Semester 1 - 2 units

In this subject students are introduced to the financial management of hospitals and healthcare 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.

09430 Computer Applications in Health Care

Semester 1-2 units

This subject is designed to examine hospital information systems in the wider context of computers in information management and in clinical management. This subject covers new developments in computer and communication technology and their application in health care systems.

09431 International Disease Classification Systems

Semester 1-2 units

Semester 2 - 3 units

This subject is designed to enable the student to classify diseases and procedures using ICD9CM. It includes the historical development of clinical classification systems as well as the purpose and value of classifying diseases and operations. Special purpose classifications such as ICDO and DSM-IV and SNOMED will be introduced. Disease and operations indices, morbidity and mortality statistics collections and notification and registration systems will be studied. In Semester 2 students will have the opportunity to code from medical records in hospitals and become familiar with computer-assisted coding and indexing systems.

09434 Information Systems Management I

Semester 1-3 units

This subject introduces the student to the concepts of health information systems management by means of an integrated study of the nature of information, health record management, including patient identification, filing and retrieval systems, record control, forms design, record structures and computerised health record systems such as HOSPAS and MPAS.

09435 Health Care Systems

Semester 1 - 2 units

In this subject the Australian health care system is studied with emphasis on Commonwealth/State/Local Government responsibility, the NSW health care service structure, community health care and specialist health care services, professional associations and organisations.

The role of medical and allied health professionals is covered. The subject also includes the study of hospital and health care statistics which encompass vital statistics, hospital census and bed returns, hospital workload and morbidity, mortality, infant, perinatal and maternal statistics. It also includes the definition of key terms used in hospital statistical reports, Department of Health definitions, and the analysis of statistical data.

09436 Information Systems Management II

Semester 2-3 units

The subject builds onto Health Information Systems I with an integrated study of forms design and management; and records used in special areas, such as community health, primary care and general practice, mental health and developmentally disabled records, rehabilitation and dental records, long term care, nursing homes and hospice records. The study of general record management is also included and covers procedures and task allocation, dataflow, numbering systems and storage, subject classification, thesauri development, indexing theory, computer-aided records management, disposal schedules, vital records and disaster recovery. Within this subject, students also study in depth a specially selected professional topic with a review of the literature and the presentation of a seminar paper.

09438 Casemix Measurement Systems

Semester 2 - 3 units

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 also be explored.

09439 Epidemiology

Semester 2 - 3 units

This subject introduces the student to epidemiology through the study of historical aspects and design strategies in epidemiological research. This introduction also includes measures of disease frequency and association, types of epidemiological studies - descriptive, case-control, cohort studies - and quantitative measures for epidemiological research. This subject also includes data management for clinical trials including stages in the development of a clinical trial, organisational structure of a collaborative trial, protocol design and interpretation, methods of data collection and forms design, quality control and maintaining the integrity of the trial, and presentation in data management.

09443 Medico-Legal Principles

Semester 2 - 3 units

In this subject students study legal principles relating to health care. Topics covered include the origin and development of the structure of the court system, legal personnel and litigation, subpoena of witnesses and records, the Law of Torts, rules of evidence, criminal law, law of contract and the Coroner's Court. The subject also addresses institutional legal responsibilities and covers Commonwealth and NSW legislation relating to health care systems; and policies incorporated within the NSW Department of Health Patient Matters Manual.

09445 Introduction to Programming and Database Design

Semester 2 - 5 units

This subject introduces students to the third generation programming language PASCAL, Nassi-shneiderman diagrams as program design aids, to data types, data structures, functions and procedures. In the second half of the semester they learn to use the database language SQL and to design a new database in CRS (Clinical Report System).

09446 Fundamentals of Medicine and Medical Terminology I

Semester 1-6 units

This subject is designed to provide the student with the knowledge necessary to understand the information contained in the health record, to function within a medical environment through an understanding of the fundamentals of medicine, and to effectively use disease classification systems. Within each body system, the student will study anatomy and physiology, disease processes and their treatment, and medical terminology (disease titles, symptomatic terms, surgical terms and investigations).

09447 Fundamentals of Medicine and Medical Terminology II

Semester 2 - 6 units

This subject continues the study of anatomy and physiology, disease processes and interventions, and medical terminology, organised around body systems. Specialist areas such as psychiatry and medical imaging will also be addressed.

09448 Professional Experience

Inter-semester - 4 units

Post-semester 2 - 5 units

This subject is designed to extend the student's knowledge of health information management, to give them an opportunity to apply the theoretical knowledge they have gained and to develop competency and proficiency in the workplace. It also provides the students with the opportunity to undertake a project which will develop their problem solving skills while exploring special areas of interest in health information management.

09451 Introduction to Management Principles

Semester 1 - 3 units

This subject is designed to introduce post graduate students to the concept of management and the application of management knowledge to the practice of health information management. Topics focus on both traditional and contemporary management theories and the management functions of planning, organising, leading and controlling.

Other areas include total quality management, motivation, organisational communication and the change process. The subject content of Introduction to Management also supports the professional experience component of the course.

09464 Evaluation of Quality in Health Care

Semester 2 - 2 units

In this subject students are introduced to the concepts of quality in health care and methods of health care evaluation. Topics covered include: structure, process and outcome measures; traditional quality evaluation techniques such as criteria audit, peer review and utilisation review; examination of variations in medical and surgical care; the development and calculation of quality indicators; methods of consumer evaluation of health care. Elements of an effective quality evaluation program and sources of information for use in evaluation are discussed. Industrial approaches to the evaluation of quality adapted for use in health, such as total quality management (TQM) are covered. In addition the evaluation of health care technologies, methods of changing health provider behaviour, health care accreditation and quality evaluation for health information services are included.

102B2 Research Methods I: Design

Semester 1-3 units

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.

Table 9.5 Master of Applied Science (Health Information Management) (by Research)

Course

Code Mode of Offer

0911 *Special Program (for Master Qualifying Students)*

0909 *Full-time, minimum 2 Years*

0910 *Part-time, minimum 3 Years*

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
09416	Research Seminars I	6	3	3
09467	Research Proposal	6	3	3
10571	Intermediate Statistics	8	8	
<i>Year 2</i>				
09417	Research Seminars II	6	3	3
	Research Elective ¹	8		8
09418	Research Thesis			

Part-time Mode

Year 1

09467	Research Proposal	6	3	3
10503	Intermediate Statistics	8	8	

Year 2

	Research Elective ¹	8		8
09416	Research Seminars I	6	3	3
09418	Research Thesis			

Year 3

09417	Research Seminars II	6	3	3
09418	Research Thesis			

Notes

- ¹ Research Elective: Students select one subject in consultation with their supervisor (see Appendix 1 for a list of Research Electives).

Master of Applied Science (Health Information Management)

The School of Health Information Management has a firm commitment to the development of knowledge and skills appropriate to the needs of health information managers. The postgraduate programs offered by the School are therefore designed to give graduates an opportunity to pursue advanced study in areas of professional interest including information systems, organisational management and evaluation methodology.

The Master of Applied Science (Health Information Management) is largely by research thesis with minimal supplementary course work. This program gives graduates an opportunity to further develop their skills by undertaking research in a specialised area of study.

Admission Requirements

1. A Bachelor Degree in Medical Record Administration/ Health Information Management from an Australian tertiary institution,
OR
2. An Associate Diploma in Medical Record Administration plus an approved Bachelor Degree,
AND
3. Such qualifications as are deemed to be equivalent to (1) or (2),

Course Outline

The Course Outline for the Master of Applied Science (Health Information Management) is presented in Table 9.5.

Subject Descriptions

09900 Special Program-Health Information Management

The Special Programs are devised to meet individual needs. They are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

09416 Research Seminars I

Semester 1 - 3 units

Semester 2 - 3 units

The seminars are designed to provide a formal structure to support the development of a research proposal. The seminars provide a forum for students to exchange and test ideas pertinent to the development of the research proposal.

09417 Research Seminars II

Semester 1-3 units

Semester 2 - 3 units

The seminars are designed to be an integral part of the research thesis and are held concurrently with the subject 09418 Research Thesis. The seminars will provide a forum for students to present the progress of their research and will facilitate the exchange of ideas between academic staff and students.

09418 Research Thesis

Pre-requisite Research Proposal (09467)

The Research Thesis forms the major component of the Masters program. Students are given the opportunity to investigate, in depth, an area of specialised interest in health information management or a closely related area. Each student will work with a supervisor or supervisors who will guide them through each stage of the study and the preparation of the thesis.

09467 Research Proposal*Semester 1-3 units**Semester 2 - 3 units*

The aim of this subject is to allow the students to develop a formal research proposal for their intended research thesis. This will include the development of the research question, literature review, research design and proposed statistical analysis. Successful completion of this subject will be required before enrolment in the subject 09418 Research Thesis.

10503 Intermediate Statistics*Semester 1 - 8 units**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.

Research Electives*Semester 2 - 8 units*

For Elective subject descriptions, see Appendix 1.

Professional Experience

Professional Experience provides students with a variety of learning experiences which relate both to the theoretical content of the classroom and to their future professional career goals. A range of field-based activities are organised in selected learning sites which include hospitals, community care centres, research units and the Department of Health (N.S.W.).

1996 Clinical Practice Dates**Bachelor of Applied Science****Year 1**

June 24 - June 28 (1 week)

Year 2

July 15 - August 2 (3 weeks)

Year 3

February 5 - February 16 (2 weeks)

July 22 - August 2 (2 weeks)

Graduate Diploma of Applied Science

July 1 - July 12 (2 weeks)

December 2 - December 13 (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, viz Diagnostic Radiography, Radiation Therapy and Nuclear Medicine Technology. A Graduate Diploma of Applied Science (Medical Ultrasonography) commenced in 1991. A Graduate Certificate of Applied Science (Medical Ultrasonography) a distance education program for rural health workers, commenced in 1994.

A Diagnostic radiographer is responsible for the production of diagnostic images on a patient who has been referred for a specific series of investigations. Most of the investigations performed will use radiation beams (X-ray) to create the image. The investigations vary markedly in their complexity extending from simple skeletal radiographs to sophisticated high technology investigations which use both radiation beams and computers to create sectional images or a map of other parts of the body. A rapidly emerging high technology investigation, Magnetic Resonance Imaging, uses high intensity magnetic fields, radio-frequency waves and computers to create images of any region of the patient's body.

The Nuclear Medicine Technologist uses radioactive substances and sophisticated instrumentation such as gamma cameras and computers to gain diagnostic information about disease. Nuclear Medicine procedures provide physiological as well as structural information about the human body. The technologist is responsible for preparing radiopharmaceuticals, working directly with patients, analysing computer data, and producing images and results for medical diagnosis.

The Radiation Therapist is responsible for the accurate and precise planning, calculation and delivery of radiation to cure or relieve the symptoms of malignant disease. The Radiation Therapist is involved in the localisation of the treatment area using CT scans and treatment simulators, the design and calculation of the treatment technique using sophisticated computerised planning systems, and the daily treatment of patients. Accurate positioning of the patient and the treatment machine is essential because of the high doses of radiation that are delivered to the diseased area. The profession combines close patient contact with the use of high technology equipment.

A Medical Sonographer is responsible for the production of diagnostic images and for obtaining other diagnostic information using ultrasound. Investigations are performed on most soft tissue regions of the body.

Table 10.1 Bachelor of Applied Science (Medical Radiation Technology)

Course

Code	Mode of Offer
1808[D]	Pass Degree; Full-time, 3 Years
1809[N]	-do-
1810[R]	-do-
1811[D]	Honours Program; Extra 1 Year, Full-time or 2 Years, Part-time
1812[N]	-do-
18MRJ	-do-
18211[D]	Conversion Course; Part-time, 1 Year
1822[N]	-do-
1823[R]	-do-

Pass Degree

Year A		Total	Sem 1	Sem 2
101A1	Behavioural Science I	84	42	42
11171	Radiation Physics	168	98	70
11174	Anatomy of Body Systems	112	56	56
11193	Introductory Human Biology	56	-	56
18113	Medical Radiations	168	84	84
18114	Clinical Education I	105	-	105
	<i>Stage Total</i>	<i>693</i>	<i>280</i>	<i>413</i>

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	385	245	140	
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	385	245	140	
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	385	245	140	
		<i>Stage Total</i>	<i>825</i>	<i>465</i>	<i>360</i>

Year 3

10394	Behavioural Science III	144	84	60	
18318	Image Processing	48	28	20	
18320	Professional Studies	24	14	10	
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	14	10	
18333	Contrast Media	24	14	10	
18335	Clinical Education IHA	385	140	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 MB	385	140	245	
OR					
Radiation Therapy					
18327	Radiation Therapy It	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	
		<i>Stage Total</i>	<i>899</i>	<i>434</i>	<i>465</i>

Conversion Course

18220	Radiation Biology and Protection	20	10	10
18415	Medical Radiations Project	100	50	50
PLUS				
Diagnostic Radiography				
18416	Advances in Radiography	48	24	24
OR				
Nuclear Medicine Technology				
18417	Sectional Anatomy	48	24	24
OR				
Radiation Therapy				
18418	Sonography	48	24	24
		<i>Stage Total</i>	<hr/>	<hr/>
			168	84

Honours Program - Additional Subjects

Year 3

103B2	Behavioural Science III (Honours) ²	144	84	60
18331	Research in Medical Radiations F	34	14	20
		<i>Stage Total</i>	<hr/>	<hr/>
			178	98

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
		<i>Stage Total</i>	<hr/>	<hr/>
			154	

Notes

- ¹ This is an additional subject for students accepted into the Honours Program
- ² This subject replaces 10394 Behavioural Science III. Honours students who have passed this subject but who do not proceed to Year 4 of the Honours program or are unsuccessful in Year 4 of the program will be deemed to have completed the requirements of 10394 Behavioural Science III.
- ³ Year 4 subjects (in special circumstances) may be taken over 2 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 Sciences (Medical Radiation Technology)

This course has three main streams: Diagnostic Radiography, Nuclear Medicine Technology and Radiation Therapy. The course is structured with a common first year and specialisation is achieved during the second and third years.

Admission Requirements

The General Admission Requirements in Chapter 3 apply. It is, however, strongly recommended that applicants have completed at least the following HSC subjects: two of 2 unit Maths, 2 unit Physics and 2 unit Chemistry, as considerable elements of these subjects are assumed knowledge on entry to the course. 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 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

1

101A1 Behavioural Science I

Semester 1 - 42 hours

Semester 2 - 42 hours

This subject is comprised of two units: Computing and Psychology.

The Computing unit provides an introduction to computer systems with special emphasis on the microcomputer. There will be an overview of the most popular applications relevant to the health sciences and the general principles of structured programming will be exemplified, mainly through Pascal. The Psychology unit examines normal human behaviour: its nature, determinants and development patterns. Topics to be covered include an introduction to psychology, motivation and emotions, perception, learning, intelligence, development and personality.

11171 Radiation Physics

Semester 1 - 98 hours

Semester 2 - 70 hours

This subject examines the structure of matter, together with physical phenomena such as types of radiation, electricity, magnetism, heat, optics and acoustics. In addition, students are introduced to basic electronics, biological effects of non-ionising radiation, protection against ionising radiations, and electrical safety.

11174 Anatomy of Body Systems

Semester 1-56 hours

Semester 2 - 56 hours

The aim of this subject is to introduce the structure and function of the human body systems with particular emphasis on aspects relevant to the branches of Medical Radiation Technology. This subject includes laboratory classes where the subject is studied from human cadavers. Attendance at such classes is required for the subject.

11193 Introductory Human Biology

Semester 2 - 56 hours

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

18113 Medical Radiations

Semester 1-84 hours

Semester 2 - 84 hours

Co-requisite *Radiation Physics (11171)*

This subject provides an introduction to the fundamental principles and applications of diagnostic radiography, radiation therapy, nuclear medicine and diagnostic ultrasound. The characteristics and handling of recording media, such as radiographic film, and an introduction to the safe use of medical radiations are included.

18114 Clinical Education I

Semester 1 -105 hours

Co-requisite *Medical Radiations (18113)*

This subject provides an introduction to the clinical environments of diagnostic radiography, nuclear medicine and radiation oncology and the role of the diagnostic radiographer, nuclear medicine technologist or radiation therapist as a member of the health care team.

Year 2

10283 Behavioural Science II

Semester 1-30 hours

Semester 2- 30 hours

Pre-Requisite *Behavioural Science I (101A1)*

This subject is comprised of two units. The unit in Australian Society and Culture covers the basic sociological concepts and their significance for analysing contemporary Australian society. The second unit, Communication and Interaction applies theoretical perspective and concepts from Psychology and Sociology to aspects of communication and interaction.

112B5 Pathophysiology

Semester 1-50 hours

Semester 2-50 hours

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 such as basic radiographic studies, CT, MRI, ultrasound, Nuclear Medicine Studies, SPECT and PET.

18222 Imaging I

Semester 1 - 40 hours

Semester 2 - 40 hours

Pre-requisites Radiation Physics (11171), Medical Radiations (18113)

Co-requisite Radiation Biology and Protection (18220)

This subject studies the construction, design, operation and quality control of general radiographic and processing equipment. This subject also includes dosimetry of diagnostic radiography beams and basic methods of radiation protection.

18223 Radiography I

Semester 1 - 50 hours

Semester 2 - 50 hours

Pre-requisites Radiation Physics (11171), Medical Radiations (18113), Clinical Education I (18114)

Co-requisites Imaging I (18222), Clinical Education 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), Medical Radiations (18113)

This subject studies the construction, design, operation and quality control of nuclear medicine instrumentation components.

18226 Nuclear Medicine I

Semester 1-60 hours

Semester 2 60 hours

Pre-requisites Radiation Physics (11171), Medical Radiations (18113), Clinical Education I (18114)

Co-requisites Radiopharmacy (18227), Clinical Education 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), Medical Radiations (18113), Clinical Education I (18114)

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), Medical Radiations (18113)

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 Medical Radiations (18113), Clinical Education I (18114)

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 Medical Radiations (18113), Clinical Education I (18114)

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 Medical Radiations (18113), Clinical Education I (18114)

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 - 78 Hours

Semester 2 - 60 hours

Pre-requisite Behavioural Science II (10283)

There are four units in this subject. The first unit on Life Stress provides students with an understanding of reactions to stress particularly in 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 Medical Radiations (18113)

This subject provides a study of the fundamentals, concepts and applications of processing images in digital form using computer based systems.

18319 Sonography

Semester 1 - 28 hours

Semester 2 - 30 hours

Pre-requisite Medical Radiations (18113)

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

18320 Professional Studies

Semester 1-14 hours

Semester 2 - 10 hours

Pre-requisite Clinical Education 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 use of 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 and in vivo tracer studies.

18326 Clinical Education IIIB

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 IIIC (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 NIC*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 1 - 14 hours**Semester 2 - 10 hours**Pre-requisite Pathophysiology (112B5), Sectional Anatomy (18221)**Radiographic Pathology I (18233)**Co-requisite Radiography II (18322)*

This subject introduces the student to the radiographic manifestations of selected disease processes, congenital disorders and malformations in the alimentary tract, hepatobiliary, genitourinary and central nervous systems.

18333 Contrast Media*Semester 1 - 14 hours**Semester 2 - 10 hours**Pre-requisite Introduction to Human Biology (11193)**Co-requisites Radiography II (18322), Clinical Education 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. The Year 4 Honours Program may be taken over a one or two year period.

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 Secretary for the School of Medical Radiation Technology.

Students in the Honours Program complete all Year 3 subjects in the Pass Program, except 10394 Behavioural Science in. 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 the student 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 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.

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 for determinants of the observed distribution and a subsequent evaluation of causal hypothesis.

08502 Evaluation Research

In this subject students will be exposed to aspects of conducting evaluation research, an area that focuses on the application of multi-disciplinary research methods to health sciences in a decision-making context.

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 commencing the FIRST CLINICAL PLACEMENT in 1ST YEAR. St John Ambulance courses on CPR are available through the metropolitan and country areas. Life-saving certificates of CPR competency will also be accepted.

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

Diagnostic Radiography

Clinical Education in Years 2 (13 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 IDA 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 Years 2 (13 weeks) and 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 new procedures in Clinical Education IIB and HIB is closely synchronised with the acquisition of the related theory in Nuclear Medicine I and II respectively. Students will be placed in a variety of Nuclear Medicine Centres to give them a breadth of experience of procedures and instrumentation.

By the end of Year 2, the student will be able to perform simple routine procedures and data acquisition and will be aware of the role of the Nuclear Medicine Technologist as a member of a multi-disciplinary health care team.

By the end of Year 3, the student will be able to perform complex routine clinical procedures including computer acquisition and analysis, reconstitution and dispensing of radio pharmaceuticals, and quality control in all areas, including planar instrumentation, single photon emission computerised tomography and radiopharmacy. The student will also have observed and assisted with, but not shown competence 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 DC and HIC is closely synchronised with the acquisition of the related theory in Radiation Therapy I and II respectively. Students will be placed in a variety of Radiation Oncology Departments to give them a breadth of experience of radiation therapy procedures and equipment.

By the end of Year 2, the student will be able to perform simple routine treatment, simulation and planning procedures, will form an empathetic relationship with patients, and will be aware of the role of the radiation therapist as a member of a multi-disciplinary health care team.

By the end of Year 3, the student will be able to perform more complex routine treatment, simulation and planning procedures for a range of electromagnetic and particulate radiations. In addition, the student will have observed and assisted with, but not demonstrated competence in performing various non-routine procedures such as stereotactic radiosurgery, intra-operative radiation therapy, brachytherapy and total body irradiation.

Throughout Years 2 and 3 the student's competence will be progressively assessed by University supervisors and authorised clinical assessors from the Radiation Oncology Departments. By the end of the third year the student must demonstrate the clinical competence required to perform as a radiation therapist with minimum supervision.

1995 Clinical Education Dates

Bachelor of Applied Science
(Medical Radiation Technology)

Year 1

June 24 - July 26 (3 weeks during this period)

Year2

Diagnostic Radiography

January 15- January 26 (2 weeks)

Radiation Therapy and Nuclear Medicine

February 19 - February 23 (1 week)

PLUS

one day per week, February 26 - April 5

All Streams

April 15-May 10 (4 weeks)

June 24 - July 12 (3 weeks)

September 9 - October 4 (4 weeks)

Year3

Diagnostic Radiography

January 29 - February 23 (4 weeks)

Radiation Therapy and Nuclear Medicine

January 22 - February 16 (4 weeks)

All Streams

July 15 - August 30 (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 "BenCasey" Jacket and navy trousers. Closed black shoes. A cardigan, jumper or sleeveless woollen vest either in white or navy.

Bachelor of Applied Sciences (Medical Radiation Technology) Conversion Course

This course is designed specifically for holders of the Diploma of Applied Science (Medical Radiation Technology) from the University of Sydney, or an equivalent Diploma from other recognised institutions. Other applicants may be considered if they satisfy the Head of School that they possess some form of qualification and experience which is of sufficient merit to warrant their admission to the course, with or without additional work. The course is offered in the Diagnostic Radiography, Nuclear Medicine Technology, and Radiation Therapy streams.

Students will enter the stream relevant to their primary qualification. The duration of the course is one year part-time.

Course Outline

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

Subject Descriptions

18220 Radiation Biology and Protection

Semester 1 -10 hours

Semester 2-10 hours

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

18415 Medical Radiations Project

University Attendance-12 hours

Independent Study - 88 hours

This subject provides the student with the opportunity to undertake an investigative project in a specific area of medical radiation technology.

18416 Advances in Radiography

Semester 1 - 24 hours

Semester 2 - 24 hours

This subject will introduce the student to current advances in imaging technology, such as film/screen systems, CT, MRI, MRA, DSA and angiography, digital acquisition system and ultrasound. The subject will also address the issue of the role of imaging technologies in cost effective patient management.

18417 Sectional Anatomy

Semester 1 - 24 hours

Semester 2 - 24 hours

This subject enables the student to identify normal anatomy in sectional images by creating a framework upon which an organ is identified due to its spatial relationships and appearances as displayed on diagnostic images such as basic radiographic studies, CT, MRI, ultrasound, nuclear medicine studies, SPECT or PET.

18418 Sonography

Semester 1 - 24 hours

Semester 2 - 24 hours

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

Table 10.2 Graduate Diploma of Applied Science (Medical Ultrasonography)

Course

Code Mode of Offer

1807 Part-time, 2 Years

		Total	Sem 1	Sem 2
Year 1				
11454	Biological Sciences	4	4	-
18401	Physics and Instrumentation I	4	4	-
18402	Ultrasonography I	4	-	4
18403	Ultrasonography II	4	-	4
18404	Clinical Practice I ¹	10	-	10
Stage Total		26	8	18
Year 2				
18405	Physics and Instrumentation II	4	4	-
18406	Ultrasonography III	4	4	-
18407	Clinical Practice IP	10	10	-
18408	Physics and Instrumentation III	2	-	2
18409	Ultrasonography IV	4	-	4
18410	Professional Issues	4	-	4
18411	Clinical Practice EH ¹	10	-	10
Stage Total		38	18	20

Notes

¹ The order of clinical practice subjects may vary, according to the individual student's requirements. The hours shown here are for Faculty planning purposes only. A condition of the course is that each student is engaged in Ultrasound investigation for at least 18 hours per week throughout the whole course.

Graduate Diploma of Applied Science (Medical Ultrasonography)

This course provides for the development of knowledge and skills relevant to the professional practice of medical ultrasonography. The course covers its physical principles and instrumentation, professional issues encountered in the field of ultrasonography and a wide variety of the applications of general ultrasonography. The duration of the course is two years part-time.

Admission Requirements

In order to qualify for admission to this Course, applicants should have completed:

1. an undergraduate course at diploma or degree level in medical radiation technology,
OR
2. an undergraduate degree or diploma in a relevant area (eg. nursing). Such applicants may be advised to make up any deficiencies in identified areas of assumed knowledge (eg. physics, medical imaging modalities),
OR
3. an approved professional diploma, associate diploma or certificate in nuclear medicine technology, ultrasound or radiography plus completion of a designated qualifying program,
OR

4. some other form of qualification and experience which is considered by the Head of School to be of sufficient merit to warrant their admission to the Graduate Diploma Course. Such applicants may be required to complete a designated qualifying program prior to admission.

AND

At least one year of relevant work experience, (in the field of their undergraduate studies), -

AND

Be working in the field of medical ultrasonography for the duration of the Course.

Course Outline

The Course Outline for the Graduate Diploma of Applied Science (Medical Ultrasonography) is presented in Table 10.2

Subject Descriptions

Year 1 _____

11454 Biological Science

Semester 1 - 4 units

This subject examines the general principles and mechanisms of the pathology of diseases which may be encountered in the practice of general ultrasonography. It also covers basic embryological development.

18401 Physics and Instrumentation I*Semester 1-4 units*

This subject presents the basic physical principles and instrumentation of diagnostic ultrasound. It includes methods of image production, interpretation, recording techniques, the principles of grey scale echography and adjustment procedures for relevant operation controls. The subject also covers the recognition of artefacts within an image and the ability to separate these artefacts from anatomy or disease.

18402 Ultrasonography I*Semester 2 - 4 units*

This subject examines in detail ultrasonography of soft tissues in the upper abdomen.

18403 Ultrasonography II*Semester 2-4 units*

This subject examines in detail ultrasonography of soft tissues in the male and female pelvis and in obstetrics.

18404 Clinical Practice I*Semester 2-10 units*

This subject covers the application of ultrasonography in the clinical environment, in order for the student to develop skills in ultrasonography as taught in Ultrasonography I. The order of Clinical Practice subjects may vary according to the individual student's requirements.

Year 2**18405 Physics and Instrumentation II***Semester 1-4 units*

This subject builds on the physical principles and instrumentation of diagnostic ultrasound presented in Physics and Instrumentation of diagnostic ultrasound presented in Physics and Instrumentation I. It covers areas such as Doppler, quality assurance programs for instrumentation, the interaction of ultrasound and biological tissue and the possible biological effects which may occur, the principles of image formation and processing as applied in ultrasound instrumentation.

18406 Ultrasonography III*Semester 1-4 units*

This subject examines in detail ultrasonography applied to superficial organs and structures.

18407 Clinical Practice II*Semester 1-10 units*

This subject covers the application of ultrasonography in the clinical environment, in order for the student to develop skills in ultrasonography as taught in Ultrasonography II. The order of Clinical Practice subjects may vary according to the individual student's requirements.

18408 Physics and Instrumentation III*Semester 2 - 2 units*

This subject examines advances in ultrasonic instrumentation and applications. It also introduces the student to non-diagnostic applications of ultrasound.

18409 Ultrasonography IV*Semester 2 - 4 units*

This subject examines in detail selected topics in general ultrasonography not previously studied. Areas include intracavity, interoperative and basic vascular applications.

18410 Professional Issues*Semester 2 - 4 units*

This subject introduces students to medico-legal and patient relationship issues which may be encountered in the field of ultrasonography. It also introduces students to the ethical principles in order to develop an understanding of professionally accepted behaviours and standards appropriate to the practice of medical ultrasonography within the broad context of the delivery of health care.

18411 Clinical Practice II*Semester 2-10 units*

This subject covers the application of ultrasonography in the clinical environment, in order for the student to develop skills in ultrasonography as taught in Ultrasonography III.

Table 10.3 Graduate Certificate of Applied Science (Medical Ultrasonography)**Course****Code****Mode of Offer**1824 *Part-time, 1 Year - Off-campus*

		Total	Sem 1	Sem 2
11476	Biological Sciences	4	4	-
18420	Physics & Instrumentation I	4	4	-
18421	Ultrasonography I	4	-	4
18422	Ultrasonography II	4	-	4
18423	Clinical Practice	12	6	6
Stage Total		28	14	14

Note

A condition of the course is that each student is engaged in Ultrasound investigation for at least 8 hours per week throughout the whole course.

Graduate Certificate of Applied Science (Medical Ultrasonography)

The Graduate Certificate of Applied Science (Medical Ultrasonography) is designed for people working in the field of clinical ultrasonography in rural or remote areas. The course aims to provide participants with an opportunity to develop their knowledge in the field of ultrasound or the upper abdomen, obstetrics and gynaecology. This program is designed to make use of independent learning methods incorporating distance education material as well as on-campus sessions to enable access for country ultrasonographers. The duration of the course is one year part-time.

Admission Requirements

In order to qualify for admission to this Course, applicants should have completed:

- 1)
- a. An undergraduate degree or diploma level in medical radiation technology.
- OR
- b. An undergraduate degree or diploma in a relevant area (eg. nursing). Such applicants may be advised to make up any deficiencies in identified areas of assumed knowledge (eg. physics, medical imaging modalities).
- OR
- c. An approved professional diploma, associate diploma or certificate in nuclear medicine technology, ultrasound or radiography plus completion of a designated qualifying program.
- OR
- d. Some other form of qualification and experience which is considered by the Head of School to be of sufficient merit to warrant their admission to the Graduate Diploma Course. Such applicants may be required to complete a designated qualifying program prior to admission.
- AND
- ii.) At least one year of relevant work experience, (in the field of their undergraduate studies)
- AND
- iii.) Be working in the field of medical ultrasonography for the duration of the Course.

Admission is restricted to applicants who, because of remoteness, are unable to enter the Graduate Diploma of Applied Science (Medical Ultrasonography).

Course Outline

The Course Outline for the Graduate Certificate of Applied Science (Medical Ultrasonography) is presented in Table 10.3.

Subject Descriptions

11476 Biological Sciences

Semester 1 - 4 units

This subject examines the general principles and mechanisms of the pathology of diseases which may be encountered in the practice of general ultrasonography. It also covers basic embryological development.

18420 Physics and Instrumentation I

Semester 1-4 units

This subject presents the basic physical principles and instrumentation of diagnostic ultrasound. It includes methods of image production, interpretation, recording techniques, the principles of grey scale echography and adjustment procedures for relevant operation controls. The subject also covers the recognition of artefacts within an image and the ability to separate these artefacts from anatomy or disease, biological effects which may occur with the interaction of ultrasound and biological tissue, and the principles of Doppler and Colour Flow Imaging.

18421 Ultrasonography I

Semester 2 - 4 units

This subject examines in detail ultrasonography of soft tissues in the upper abdomen.

18422 Ultrasonography II

Semester 2- 4 units

This subject examines in detail ultrasonography of soft tissues in the male and female pelvis and in obstetrics.

18423 Clinical Practice

12 units

This subject covers the application of ultrasonography in the clinical environment, in order for the student to develop skills in ultrasonography as taught in Ultrasonography I and II.

Masters of Applied Science (Medical Radiation Technology) by Research

The Table below refers to the standard program for full-time pass entry students. This program may alter depending on the entry level of the student.

Course

Code	<i>Mode of Offer (for Pass Entry Level Students)</i>
1829	<i>Special Program (for Master Qualifying Students)</i>
1827	<i>Full-time, minimum 2 years</i>
1828	<i>Part-time, minimum 3 years</i>

Full-time Mode

*

		Total	Sem 1	Sem 2
<i>Year 1</i>				
10571	Intermediate Statistics	8	8	.
18501	Thesis Development A	10	10	-
	Elective Research Subject ¹	8	-	8
18502	Thesis Development B	8	-	8
18503	Masters Research Thesis	-	-	-
<i>Year 2</i>				
18503	Masters Research Thesis	-	-	-

Part-time Mode

Year 1

10571	Intermediate Statistics	8	8	-
18501	Thesis Development A	10	5	5
	Elective Research Subject	8	-	8
<i>Stage Total</i>		26	13	13

Year 2

18502	Thesis Development B	8	8	-
18503	Masters Research Thesis	-	-	-

Year 3

18503	Masters Research Thesis	-	-	-
-------	-------------------------	---	---	---

Notes

- ¹ Elective Research Subjects: Students select one of the subjects (subject to sufficient student numbers) in consultation with their supervisors. For a list of Research Electives see Appendix 1.

Master of Applied Science (Medical Radiation Technology)

The Masters of Applied Science (Medical Radiation Technology) course is a research degree. The course is designed to provide opportunity for research and scholarship in Medical Radiation Technology.

Admission Requirements

Applicants may enter the research masters program with any of the following requirements:

- i) A Bachelor degree in an appropriate discipline from an Australian tertiary institution
- OR
- ii) A Bachelor degree in an appropriate discipline from an overseas institution equivalent to an Australian Bachelor degree.
- OR
- iii) A Diploma of Applied Science and a Post Graduate Diploma of Ultrasound.

A student entering through either (i), (ii) or (iii) must also additionally be able to demonstrate a capacity to pursue graduate studies and would normally have completed a minimum of twelve months professionally relevant post graduate experience. Applicants in the above categories, particularly for students entering through sections (iii), may be required to complete a qualifying course program.

time Limits

The standard course comprises enabling research subjects, thesis development subjects and research thesis. Students who enter the course with adequate research preparation may be exempt from completing the enabling subjects, ie. 10571 Intermediate Statistics, 18501 Thesis Development A and 18502 Thesis Development B and the elective Research Subject. Usually these students would have completed an approved bachelor degree program at honours level. The minimum length of the course for such students is one year full time or two years part time.

Course Outline

The Course Outline for the Master of Applied Science (Medical Radiation Technology) is presented in Table 10.4.

Subject Descriptions

Enabling Subjects

10571 Intermediate Statistics

Total - 8 units

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.

18501 Thesis Development A

Total - 10 units

This subject is designed to orient students to study at Masters level and to give a formal structure to support the development of a research proposal. It also provides a forum in which to exchange and test ideas pertaining to the development of the research proposal.

18502 Thesis Development B

Total - 8 units

This subject continues to give support to students who are setting up and running a research project. It provides opportunities for students to report on work in progress, defined developments and procedures to be used in the project and supports the production of specific sections of the research thesis.

18503 Masters Research Thesis

The successful submission of a research thesis is the ultimate objective of the course. This process will necessitate a collaborative endeavour between the student and the supervisor(s).

Elective Research Subjects

Total - 8 units

For elective subject descriptions see Appendix 1.

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 School has developed an articulated program of post graduate study. This includes PhD level studies, two Master degree courses, one by research, the other by course work and a Graduate Certificate which focuses on speciality areas of practice in Occupational Therapy.

Further information about the School's programs may be obtained from the Administrative Assistant on 646-6386, who can direct enquires to relevant staff.

Table 11.1 Bachelor of Applied Science (Diversional Therapy)

<i>Course Code</i>		<i>Mode of Offer</i>	Total	Sem 1	Sem 2
1531		Full-time, 3 years			
<i>Year 1</i>					"\
101C2	Introduction to Sociology		56	56	-
101C3	Psychology I		56	-	56
101C4	Sociology of Community & Family		28	-	28
11183	Biological Sciences I		56	28	28
15143	Professional Practice I		28	28	-
15144	Theoriea 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	14	2
			35 hours intersemester		
<i>Stage Total</i>			562		

Year2

102A6	Clients, Work & 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 & 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	28	3
			70 hours intersemester	
			35 hour camp	
	<i>Stage Total</i>	<i>717</i>		

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	319	-
	<i>Stage Total</i>	<i>641</i>	<i>403</i>	<i>238</i>

Bachelor of Applied Science (Diversional Therapy)

Diversional Therapy is concerned with recreational and leisure activities within health care and community environments. Where barriers to independent participation exist, the diversional therapist facilitates client involvement and promotes effective and satisfying engagement in activities which have intrinsic value for the individual client.

Admission Requirements

There are no specific pre-requisites to the Bachelor of Applied Science (Diversional Therapy). Please refer to the General Admission Requirements in Chapter 3.

Course Outline

The course outline for the Bachelor of Applied Science (Diversional Therapy) 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!

Semester 2-56 hours

This subject provides a general introduction to psychology. It includes the topics of motivation, learning, perception, intelligence, personality, and developmental psychology.

101C4 Sociology of Community and Family

Semester 2 - 28 hours

Pre-requisite Introduction to Sociology

This subject develops an understanding of urbanisation and of the concept of community. It examines recent Australian community studies analysing the characteristics of neighbouring and friendship ties. It investigates the nature of networks in terms of size, intensity and homophily and the support likely to be offered by networks in times of dependency occasioned by chronic ill-health, disability or sudden health crises. Patterns and agencies of formal and informal support, and changing family patterns are focuses of this unit.

11183 Biological Sciences I

Semester 1-28 hours

Semester 2 - 28 hours

This subject is an introduction to the systems of the body using the theme of homeostasis and will provide the basis for further study of health and illness.

15143 Professional Practice I

Semester 1-28 hours

This subject provides students with a conceptual basis for the practice of diversional therapy. Concepts which influence the development of diversional therapy are examined and the role of the diversional therapist explored. A comparative analysis of professions which provide similar services to diversional therapy, e.g. therapeutic recreation, will be made. Legal and ethical issues related to duty of care will be identified and discussed.

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 the students with the opportunity to develop their understanding of various philosophies, disciplines and practices of visual arts in health and disability services. Students will develop practical skills and also study areas such as creativity, art therapy, adapting arts activities, community arts and working with groups.

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

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

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

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 diversional therapists 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 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*

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 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 4 units. The first two will run in Semester 1. Unit 1 will cover medical terminology and nutrition and Unit 2 will be an introduction to the principles of cross infection and the operation of the immune system. Units 3 and 4 will run in Semester 2. Unit 3 will examine the biological processes and changes in the human organism over the 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*

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 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*

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*

This subject will provide the student 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 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*

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 the diversional therapist in this process.

152B4 People with Disabilities I*Semester 2 - 28 hours**Pre-requisite Introduction to People with Disabilities*

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*

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*

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*

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.

15384 Counselling Skills*Semester 1 - 28 hours**Co-requisite Field Experience III*

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.

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.

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

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)*Course**Code Mode of Offer*1519 *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 1A	42	42	-
15137	Human Occupations IB	42	-	42
15138	Components of Occupational Performance 1A	56	56	-
15139	Components of Occupational Performance IB	56	-	56
15140	Occupational Therapy and Theory Process I	56	28	28
15141	Occupational Role Development I	56	28	28
15142	Fieldwork Education I	80	4	76
<i>Stage Total</i>		<i>668</i>	<i>310</i>	<i>358</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
112A9	Biomechanics for Occupational Therapy	28	-	28
15297	Human Occupations IIA	28	28	-
15298	Human Occupations IIB	42	-	42
15299	Components of Occupational Performance IIA	42	42	-
152A1	Components of Occupational Performance IIB	42	-	42
152A2	Occupational Therapy Theory & Process IIA	28	28	-
152A3	Occupational Therapy Theory & Process IIB	28	-	28
152A4	Occupational Role Development II	56	28	28
152A5	Fieldwork Education It	115	1	114
<i>Stage Total</i>		<i>675</i>	<i>267</i>	<i>408</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 & Process III	42	-	42
15390	Fieldwork Education IDA	528	264	
15391	Fieldwork Education HIB			264
<i>Stage' Total</i>		<i>808</i>	<i>264</i>	<i>544</i>

Year 4 (to be first offered in 1996)

10465	Psychology of Adulthood and Ageing	28	28	-
10466	Social Psychology	28	28	-
10467	Sociology Elective	28	28	-
11465	Applied Physiology	56	56	-
15460	Human Occupations IV	56	56	-
15461	Components of Occupational Performance IV	42	42	-
15462	Occupational Therapy Theory & Process IV	70	42	28
15463	Evaluation of Occupational Therapy Program	42	14	28
15464	Fieldwork Education IV	377	-	377
<i>Stage Total</i>		727	294	433

Table 11.2.1 Honours Program - Additional Subjects

		Total	Sem 1	Sem 2
<i>Year 3</i>				
	Research Methods Elective ¹	42	-	42
15378	Honours Research Seminar 1	28	14	14
15383	Honours Proposal Development	-	-	-
<i>Year 4 (to be first offered in 1996)</i>				
	Research Elective ¹	42	42	-
15442	Honours Research Seminar II	28	14	14
15443	Individual Research Consultation	28	14	14
15445	Honours Thesis	-	-	-

Notes

¹ Honours students may elect to take Research and Research Method Electives in years 3 and 4. Options include:

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 10504 Multivariate Statistics
- 10505 Qualitative Research Methods
- 15465 Single System Research Design and Evaluation Methods
- 15479 Research Design & Methods for Therapists
- 15483 Research in Occupational Therapy Clinical Practice

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). Please refer to the General Admission Requirements in Chapter 3.

Course Outline

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

Subject Descriptions

Year 1

101A9 Introductory Psychology

Semester 1 - 42 hours

This course introduces students to major areas of psychology, perception, motivation, learning, developmental psychology, intelligence and personality.

101B1 Cognitive Functioning

Semester 2 - 28 hours

This 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 course involves the application of learning principles in occupational therapy settings to enhance therapeutic effectiveness. Techniques for increasing desired behaviours, decreasing undesired behaviours and models for understanding behaviour in therapy and rehabilitation settings are discussed. Motor skill learning is approached from an information processing perspective and the conditions of practice and feedback which promote skill learning are examined.

11176 Introductory Human Biology

Semester 1 - 56 hours

This subject will present aspects of the basic chemistry, biochemistry and physiology which underlie the normal function of the human body. The topics considered include 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 the student to the basic structure and function of the nervous system, and physiology of nerve, receptors, synapses and neuromuscular transmission. The structure, contractile process, muscle mechanics and biochemistry of skeletal and smooth muscle are covered. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11179 Neurobiology I

Semester 2 - 28 hours

Pre-requisite Introductory Neurobiology (11178)

This subject covers spinal reflex mechanisms, as well as the structure and function of the somatosensory system. There is also a discussion of the autonomic nervous system. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

15136 Human Occupations IA

Semester 1 - 42 hours

This subject introduces students to the concept of purposeful occupation in areas of self-maintenance, productivity, leisure and rest. The biological and socio-technological evolution of human occupations is explored. Students will be given the opportunity to develop skills in methods used to assess, maintain, restore and enhance mobility skills and basic self-care tasks. Appropriate assessment and intervention strategies are presented for clients with difficulties performing personal self-care tasks.

15137 Human Occupations IB

Semester 2 - 42 hours

This semester continues with self-maintenance occupations, addressing the areas of self-maintenance tasks within the home and the community environment. Students will explore the effects of physical, psychosocial and cognitive dysfunction on personal care, home management and community skills and examine various occupational therapy assessment and intervention strategies.

15138 Components of Occupational Performance IA

Semester 1 - 56 hours

This subject introduces students to the components which underpin the performance of human occupations. Biomechanical, psychosocial, cognitive and sensorimotor components are defined and their relationship to human performance of occupations explored. Principles of psychosocial practice focusing on social interaction and helping skills which underpin person to person occupational therapy assessment and intervention in all areas of practice will be established.

15139 Components of Occupational Performance IB

Semester 2 - 56 hours

The biomechanical performance component is examined in order to identify and intervene where human performance deficits exist in this area. Principles of occupational therapy assessment and intervention in the area of biomechanical performance are established in order to restore, maintain and enhance human occupational performance. Principles of learning and systematic instruction which underpin occupational therapy assessment and intervention in all areas of practice will be established.

15140 Occupational Therapy Theory and Process I

Semester 1 - 28 hours

Semester 2 - 28 hours

This subject examines the theoretical, philosophical and historical foundations underlying current occupational therapy practice. The student is introduced to a self directed problem solving process which can be applied to occupational therapy practice and which will form the basis for learning in other parts of the curriculum.

15141 Occupational Role Development I

Semester 1 - 28 hours

Semester 2 - 28 hours

This subject introduces the student to occupational role development across the lifespan. It focuses specifically on development of occupational roles in infancy, childhood and adolescence within a sociocultural context. Role transitions and areas of occupational role performance will

be described. Adaptive behaviours necessary for competent role performance will be presented. Development of performance components required for self-maintenance school/productivity, play/leisure, sleep and rest occupations during these stages in the lifespan will be examined from various theoretical perspectives.

15142 Fieldwork Education I

Semester 1-4 hours

Inter-semester break - 75 hours

Semester 2 -1 hour

This subject has 4 hours preparatory lectures and 1 hour debriefing session to facilitate students' attendance at a 2 week orientation and observation block placement in a professional setting. It aims to provide students with the opportunity to interact with clients, and to promote their awareness of the range and scope of occupational therapy services, and the role of the health care team.

Year2

10293 Australian Society

Semester 1 - 2 hours

This course aims to develop an understanding of basic sociological theories and concepts. It examines the social structures, institutions and processes relevant to analysing Australian and other societies as well as the organisation and delivery of health care.

10294 Sociology of Health I

Semester 2 - 56 hours

This subject is comprised of two strands: First, health medicine and society; second, work, organisations and clients. Health, medicine and society considers health care issues in terms of four sociological perspectives. Work, organisations and clients integrates organisation dimensions and problems of therapy, aspects of work and non-work and sociological approaches to practitioner-client relationships.

10295 Research Methods and 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.

112A9 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.

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 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 the students' understanding of occupational therapy theory and process introduced in Occupational Therapy Theory and Process I, as it relates to practice. Students will examine occupational therapy literature and identify the philosophical assumptions, relevant scientific and educational theories and the range of practice models and frameworks available.

152A3 Occupational Therapy Theory and Process IIB

Semester 2-28 hours

This subject explores issues concerning assessment of individual and group performance in occupational therapy. The topic areas covered will be standardised and non-standardised tools and their features, needs analysis, outcome measures and quality assurance. Aspects of professional practice relating to selection, location, ethical application, administration, scoring and interpretation of instruments will also be covered.

152A4 Occupational Role Development II

Semester 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 1-1 hour

Inter-semester break-113 hours

Semester 2-1 hour

This subject has 1 hour each for briefing and debriefing to facilitate students' 3 week block placement in a professional setting. It provides students with the opportunity to apply specific skills learned in the School of Occupational Therapy to occupational therapy practice for clients, guided by the fieldwork supervisor.

Year 3

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: *Psychology of Physical Disability* 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 Practice III

Semester 2 - 42 hours

This subject aims to link occupational therapy theory to specific practice issues through the application of clinical reasoning and decision making processes. Clinical judgements made in consequence of the clinical reasoning process will be explored from documentation, legal, ethical and quality assurance perspectives.

15390 Fieldwork Education III A

Semester 1 - 264 hours

This subject has a one hour briefing session to facilitate students' 7 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 IIIB

Semester 1 - 264 hours

Semester 2 - 1 hour

This subject has a one hour debriefing session after students' 7 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 Aging

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. Course 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.

11465 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.

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 2 - 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.

15462 Occupational Therapy Theory and Process IV

Semester 1 - 28 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.

15463 Evaluation of Occupational Therapy Programs

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 - 350 hours

This subject has a one 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 2 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 School's Honours Course Co-ordinator.

The Occupational Therapy Honours course includes the first four semesters of the pass course followed by four semesters where the student is enrolled specifically in the honours program. A number of subjects from the year 3 and 4 pass program will be taken by honours students. In addition, students will be enrolled in the following subjects:

Year 3

15378 Honours Research Seminar I

Semester 1 - 14 hours

Semester 2 - 14 hours

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

15383 Honours Proposal Development

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

Research Methods Elective

Semester 2 - 42 hours

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

Year 4 (first offered in 1996)

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.

Graduate Certificate of Applied Science (Occupational Therapy)

The Graduate Certificate of Applied Science (Occupational Therapy) is a fee paying course which is designed to provide specific professional development for occupational therapists who wish to extend the knowledge, skills and attitude required by their professional roles of Practitioner and Learner/Teacher. It contains several clinical speciality track options as well as a no-speciality option. Work completed in any graduate certificate track may be credited against the requirements of the master's by coursework offered by the School. The School will decide which tracks are available in any one year.

Admission Requirements

To qualify for admission to this Graduate Certificate course conducted by the School of Occupational Therapy, applicants shall:

(a) Possess an award of Bachelor of Applied Science (Occupational Therapy) from the Faculty of CCHS University of Sydney;

OR

(b) Possess such qualifications as are deemed equivalent to (a) and/or (b);

OR

(c) Possess an award of Diploma of Occupational Therapy from a recognised educational body and other evidence of general and/or professional qualifications as will satisfy the Graduate Studies Committee of the Faculty of Health Sciences that the applicant possesses the educational preparation and capacity to pursue postgraduate studies;

and

(d) Have the equivalent of a minimum of six months recent, full-time experience in occupational therapy management of clients. For admission to a speciality track, this recent experience must be in an area which is consistent with the specialist track.

Table 11.3 Graduate Certificate of Applied Science (Occupational Therapy)

Course
Code *Mode of Offer*
 1525 *Part-time -1 year*

Specialty Track

The graduate certificate course will enhance the students knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised. The content of the Graduate Certificate of Applied Science (Occupational Therapy) consists of those subjects from the specialty tracks which are available at the time of enrolment and selected by the student.

		Total	Sem 1	Sem 2
<i>Year 1</i>				
	Core subject	7	7	
	Core subject	7	7	
	Elective ¹	5		
	Core subject	7		7
	Core subject	7		7
	<i>Stage Total</i>	<i>33</i>		

Notes

¹ One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2.

Speciality Track Developmental Disabilities and Paediatrics

This specialty track within the graduate certificate course will enhance the students knowledge, skills, and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised by developmental disability or during the developmental period.

Notes

		Total	Sem 1	Sem 2
<i>Year 1</i>				
15472	Occupational therapy assessment	7	7	
	Elective ¹	5		-
15473	Systematic instruction	7		7
15484	Occupational performance and the inclusive community	7	7	
15485	Occupational performance and people with high support needs	7		7
	<i>Stage Total</i>	<i>33</i>		

△

Notes

¹ One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:

- 15451 Occupational therapy clinical specialty
- 15478 Prescription, evaluation and modification of seating for occupational performance
- 15486 Systematic instruction: Physical guidance
- 15487 Upper limb orthotic systems

15472 Occupational Therapy Assessment

Semester 1-7 units

This subject examines formal occupational therapy assessments that have been developed for use with people with a developmental disability and also assessment tools which have been developed for use with children whose occupational performance has been compromised. These assessments include both norm-referenced tests and criterion-referenced tests in current use as well as those being developed. Students will choose one mode of assessment and study its theoretical base, assumptions, development, strengths, limitations and suitability for use in assessing the occupational performance and component performance of people who have a developmental disability and also children whose development of occupational roles has been compromised. Students will develop skill in test mechanics and interpretation of results of the chosen assessment mode through practice during tutorial sessions as well as making a critical evaluation of the use of the tool in their clinical practice. Learning experiences include seminars, tutorials, and videotaped analysis of students assessing people with the selected assessment tool.

15473 Systematic Instruction

Semester 2-7 units

This subject will extend systematic instruction techniques covered in the occupational therapy undergraduate course. Students will examine the use of systematic instruction to promote performance in self-maintenance, productivity, school, play and leisure areas. Students will examine the use of instructional techniques and learn to apply various strategies such as using cues and prompt systems; deciding how to choose reinforcement to promote the learning of occupational tasks; training for complex stimulus discrimination in real world environments; and managing contingencies to reduce artificial reinforcement in favour of naturally occurring reinforcement. Students will identify procedures for promoting maintenance and generalisation. Students will have the opportunity to develop instructional strategies to support people for whom they are currently providing occupational therapy services. Learning experiences include seminars, problem solving around specific case studies and videotaped analysis of the student's skill in applying instructional strategies within their workplace.

15484 Occupational Performance and the Inclusive Community

Semester 1-7 units

In this subject students have the opportunity to examine and critically analyse a range of models and philosophies of service provision in the areas of developmental disability and paediatrics from the point of view of their impact on occupational performance. This will include the examination of concepts such as social role valorisation, integration, inclusion, the least restrictive alternative, client-centred and family-centred approaches to intervention, categorical and non-categorical models of service provision, supported and sheltered employment, transdisciplinary and multidisciplinary models of service delivery, legislative and standards-based models of service reform and implementation. Learning experiences include seminars, case study presentations and problem solving tutorials.

15485 Occupational Performance and People with High Support Needs

Semester 2-7 units

This subject explores strategies which can be used by occupational therapists to identify and affirm the occupational roles of people with high support needs and strategies to promote and fully support their fulfilment of those roles and their performance of human occupations. This subject will also examine assessment and intervention strategies to promote a person's occupational performance where that is affected by the presence of challenging behaviours. Learning experiences include seminars, case presentations, problem solving exercises and videotaped analysis of students' interactions with people for whom they are currently providing occupational therapy services.

Elective Subject Descriptions

15451 Occupational Therapy Clinical Specialty

Semester 1 or 2-5 units

This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the student's documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.

15478 Prescription, Evaluation and Modification of Seating for Occupational Performance

Semester 1 or 2-5 units

This subject examines the range of seating equipment available. Students will extend their skill and knowledge in the prescription, evaluation and modification of equipment that promotes performance of occupational tasks in a sitting position. Students will integrate principles of ergonomics, biomechanics and design with principles of occupational performance to determine appropriate seating options for clients whose physical function is compromised by impaired brain function. Learning experiences will include seminars, case presentations and videotaped assessments of client seating.

15486 Systematic Instruction: Physical Guidance

Semester 1 or 2-5 units

This subject examines the use of various physical guidance models to improve performance of occupational tasks by people with a developmental disability. Each model will be examined relative to its theoretical base, assumptions and application to the management of developmental disability. Students will select one specific model and develop skill in using the model to enable people to initiate steps in performing occupational tasks, improve the quality of performance of occupational tasks, improve the timing of performance of occupational tasks and to appropriately terminate task performance. Learning experiences include seminars, problem solving around case studies and videotape analysis of student's skill in physically guiding performance of occupational tasks.

15487 Upper Limb Orthotic Systems

Semester 1 or 2 - 5 units

This subject explores the use of upper limb orthotic systems to improve the performance of occupational tasks by people whose occupational performance has been compromised during the developmental period. Students will examine the biomechanics of the upper limb and the pathomechanics that occur as a result of developmental disability. Principles of orthotic design and fabrication will be examined relative to upper limb problems found in people with a developmental disability. Students will learn to design, fabricate and evaluate orthotic systems which promote the occupational performance of people for whom they are currently providing occupational therapy services. Learning experiences include seminars, problem solving around case studies, videotape analysis of occupational performance problems and analysis of orthotic systems designed by students.

Speciality Track Environmental Modification and Technology

This speciality track within the graduate certificate course will enhance the students knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised by the physical environment they operate within.

		Total	Sem 1	Sem 2
<i>Year 1</i>				
15488	Environmental measurement	7	7	
15489	Environmental theory	7	7	
	Elective ¹	5		
15490	Foundations for modifications in public and private buildings	7		7
15491	Communication with clients, builders, architects and tradesmen	7		7
<i>Stage Total</i>		33		

Notes

¹ One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:

- 15451 Occupational Therapy Clinical Specialty
- 15478 Prescription, Evaluation and Equipment Modification for Occupational Performance
- 15492 Occupational Therapy drafting using CAD packages
- 15493 Establishing and contributing to community Access Policies

15488 Environmental Measurement

Semester 1 - 7 units

This subject examines formal and informal tools that have been developed to evaluate the impact of the built environment for persons with disabilities. These tools include checklists and post occupancy evaluation protocols. In addition students will develop skill in correct use and practice with retractable measures, builders levels, stud finders, light meters, and load measures. This will be achieved through practice utilising tools during tutorial sessions as well as practice utilising tools to evaluate buildings within their community. Students will examine the theoretical base, underlying assumptions, strengths, limitations and suitability for use in assessing the built environment. Learning experiences include seminars, tutorials, and videotaped analysis of students using tools.

15489 Environmental Theory

Semester 1 - 7 units

This subject will examine pertinent theories of person environmental interaction. These theories relate to design, psychology, sociology, anthropology and occupational therapy. Some theories to be examined will be environmental press, personal space, design prototype theory and human factors research. Students will select a specific theory and then relate it to occupational therapy practise and environmental modification options. Learning experiences include tutorials and seminars. Students are required to select one theory and show how it can be applied to name and frame environmental data, and thus the identification and resolution of barriers in the built environment for persons with special needs.

15490 Foundations for modifications in public and private buildings

Semester 2 - 7 units

This subject examines the expertise that can be acquired via application and interpretation of regulatory standards. Material to be covered will include general principles for design of buildings to enhance access and mobility. Design standards will be examined in relation to their history, assumptions, applicability and research base. Material from America and England will be compared to the Australian Standards 1428 parts 1, 2, 3 and 4. Students will critically evaluate the appropriate application of standards in eliminating access barriers. Learning experiences include seminars, and will include problem solving around client cases.

15491 Communication with clients, builders, architects and tradesmen

Semester 2 - 7 units

This subject explores uniform building terminology and how to decode and package information to facilitate the understanding of the various stakeholders involved. Various models of communication will be explored with emphasis on how to work with others and how to put together building specifications in terms of timing and level of detail. Students will learn what is necessary in terms of informed consent, product liability and legal report writing. Students will explore types of documentation and then audit environmental modification reports within their workplace in terms of best practice. Learning experiences include seminars, problem solving around client cases, videotape analysis of communication sessions and audits of environmental modification reports.

Elective Subject Description

15451 Occupational Therapy Clinical Specialty

Semester 1 or 2 - 5 units

This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the students documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.

15478 Prescription, Evaluation and Equipment Modification for Occupational Performance

Semester 1 or 2 - 5 units

This subject examines the range of large equipment available to temporarily modify the built environment. Examples include portable ramps, hoists, furniture surrounds, and bathing aids. Students will extend their skill and knowledge in the prescription, evaluation and modification of equipment that promotes performance of occupational tasks in a home environment. Students will integrate principles of optimisation, biomechanics, ergonomics, and design with principles of occupational performance to determine appropriate options for clients where structural modification is not desirable. Learning experiences will include seminars, case presentations and videotaped assessments of client equipment evaluation.

15492 Occupational Therapy drafting using CAD packages

Semester 1 or 2 - 5 units

This subject focuses on occupational therapy skills in representing changes to the built environment using drawing techniques. Students will examine various computer aided drafting (CAD) packages which can be used to simplify and facilitate representation of problems and potential solutions in building design. Students will learn how to critically select and operate CAD software to produce appropriate plan drawings and front and side elevations. Learning experiences include tutorials, case presentations and problem solving tutorials using CAD software.

15493 Establishing and contributing to community Access Policies

Semester 1 or 2 - 5 units

This subject explores strategies which can be used by occupational therapists to establish and contribute to community policies on environmental access. Students will examine the role, history, function and impact of local council access committees on environmental access policy. Students will also examine the disability discrimination act and determine how it is being used to promote access and determine its relevance to the needs and rights of disabled persons at the local community level. Learning experiences include seminars, case presentations, and problem solving exercises.

Speciality Track Mental Health

This speciality track within the graduate certificate course will enhance the students knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised by threatened or impaired mental health.

		Total	Sem 1	Sem 2
<i>Year 1</i>				
15467	Advanced occupational therapy assessment and treatment in mental health	7	7	
15468	Occupational therapy service delivery in mental health Elective ¹	7	7	
		5		
15469	Family and system intervention for occupational therapy in mental health	7		7
15470	Advanced counselling for occupational therapy	7		7
<i>Stage Total</i>		33		

Notes

¹ One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:

- 15451 Occupational Therapy Clinical Specialty
- 15471 Creative Arts in Occupational Therapy

15467 Advanced Occupational Therapy Assessment and Treatment in Mental Health

Semester 1 - 7 units

Assessment, treatment and documentation are three primary functions that occupational therapists perform in their role as clinicians in mental health services. Inherent in these functions is the ability to make clinical decisions. The aim of this subject is to enhance the practitioner's clinical reasoning and decision making skills in the assessment and treatment of clients. It also aims to enable the practitioners to enhance the unique role and contribution of occupational therapy within the multidisciplinary setting. Diagnostic and functional assessments and specific client centred interventions developed within the context of occupational therapy and mental health practice models will be emphasised. Practitioners will examine their own clinical reasoning and decision making within the context of these models and the practice environment.

15468 Occupational Therapy Service Delivery in Mental Health

Semester 1 - 7 units

This subject will be dealing with service delivery in occupational therapy mental health practice. It will incorporate needs assessment and analysis; program planning, implementation and evaluation; quality assurance and documentation. The issue of case management and knowledge of the principles and practice of psychosocial rehabilitation will be addressed. There will be also an emphasis on client empowerment throughout different phases of service delivery.

15469 Family and System Intervention for Occupational Therapy in Mental Health

Semester 2 - 7 units

Students will examine and develop knowledge of family systems' theories as applied to clients in particular treatment settings and the community. Emphasis will be on the occupational therapists' role of empowerment and advocacy in the planning and implementation of services for the mentally ill clients and their families in the community.

15470 Advanced Counselling for Occupational Therapy Practice

Semester 2 - 7 units

This subject will employ an experiential approach to introduce students to various models of counselling and to gain beginning skills in counselling of clients with special needs or in special clinical settings which are applicable to the current occupational therapy practice. The content of this subject will cover counselling in areas which include marriage, family, drug and alcohol abuse, crisis, and grief and bereavement. Student will also learn to assess client's needs in the helping process and select appropriate counselling model to address those needs.

Elective Subjects

15451 Occupational Therapy Clinical Specialty

Semester 1 or 2 - 5 units

This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the student's documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.

15471 Creative Arts in Occupational Therapy

Semester 1 or 2 - 5 units

This subject examines the theories supporting the creative arts in therapists that are applied by occupational therapists in mental health practice. Students will develop skills, in a workshop environment, in facilitating change through expressive activities such as drama, art, dance, creative writing and clay work. The emphasis of this subject will be on enhancement of occupational function with clients with mental illness and design and implementation of these programs in specific settings in mental health.

Speciality Track Neurology

This specialty track within the graduate certificate course will enhance the student's knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised by the physical and cognitive manifestations of impaired brain function.

		Total	Sem 1	Sem 2
<i>Year 1</i>				
15472	Occupational therapy assessment	7	7	
15473	Systematic instruction	7	7	
	Elective ¹	5		
15474	Systematic instruction : Physical guidance	7		7
15475	Upper limb orthotic systems	7		7
	<i>Stage Total</i>	33		

Notes

¹ One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:

- 15451 Occupational Therapy Clinical Specialty
- 15476 Programming for Community and Living Skills
- 15477 Systematic Instruction: Behaviour Management
- 15478 Prescription, Evaluation and Modification of Seating for Occupational Performance

15472 Occupational Therapy Assessment

Semester 1-7 units

This subject examines formal occupational therapy assessments that have been developed for use with persons with impaired brain function. These assessments include both norm referenced tests and criterion referenced tests in current use as well as those being developed (A-ONE OT-ADL Neurobehavioural Evaluation, Assessment of Motor and Process Skills (AMPS), Community Adaptive Patterns Assessment, PRPP System). Students will choose one mode of assessment and study its theoretical base, assumptions, development, strengths, limitations and suitability for use with persons with impaired brain function. Students will develop skill in test mechanics and interpretation of results of the chosen assessment mode through practice during tutorial sessions as well as practice on clients within their workplace. Learning experiences include seminars, tutorials, and videotaped analysis of students testing clients.

15473 Systematic Instruction

Semester 1-7 units

This subject will extend systematic instruction techniques covered in the occupational therapy undergraduate course. Students will examine the use of systematic instruction to structure self-care and community programs specifically for clients with impaired brain function. Students will examine the use of instructional techniques and learn to apply various strategies such as using cues and prompt systems; deciding how to choose reinforcement to promote the learning of occupational tasks; training for complex stimulus discrimination in real world environments; and managing contingencies to reduce artificial reinforcement in favour of naturally occurring cues. Students will identify procedures for promoting maintenance and generalisation and apply these to the development of client programs in both acute and tertiary rehabilitation programs. Students will have the opportunity to develop instructional strategies

that apply to specific clients in their workplace. Learning experiences include seminars, problem solving around client cases and videotaped analysis of the student's skill in applying instructional strategies to specific clients within their workplace.

15474 Systematic Instruction: Physical Guidance
Semester 2 - 7 units

This subject examines the use of various physical guidance models to improve performance of occupational tasks of persons with impaired brain function. Each model will be examined relative to its theoretical base, assumptions and application to management of impaired brain function. Students will select one specific model and develop skill in using the model to help clients initiate steps in performing occupational tasks, improve the quality of performance of occupational tasks, improve the timing of performance of occupational tasks and to appropriately terminate task performance. Learning experiences include seminars, problem solving around client cases and videotape analysis of student's skill in physically guiding performance of occupational tasks.

15475 Upper Limb Orthotic Systems
Semester 2-7 units

This subject explores the use of upper limb orthotic systems to improve performance of occupational tasks of persons with impaired brain function. Students will examine the biomechanics of the upper limb and the pathomechanics that occur as a result of impaired brain function. Principles of orthotic design and fabrication will be examined relative to upper limb problems found in persons with impaired brain function. Students will learn to design, fabricate and evaluate orthotic systems fitted to clients within their workplace. Learning experiences include seminars, problem solving around client cases, videotape analysis of client problems and analysis of orthotic systems designed by students.

Elective Subject Descriptions

15451 Occupational Therapy Clinical Specialty
Semester 1 or 2 - 5 units

This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the student's documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.

15476 Programming for Community and Living Skills

Semester 1 or 2 - 5 units

This subject focuses on occupational therapy management of clients with impaired brain function who are in tertiary rehabilitation programs, students will examine various strategies which can be used to facilitate clients making a meaningful transition from rehabilitation programs to community living. Students will learn how to identify client skills required for community living; become familiar with the services provided by service agencies with the community and will learn how to plan systematically for the transfer of programming responsibilities to other community agencies and families before targeted discharge from tertiary rehabilitation programs. Learning experiences include seminars, case presentations and problem solving tutorials.

15477 Systematic Instruction: Behaviour Management

Semester 1 or 2 - 5 units

This subject explores strategies which can be used by occupational therapists to manage maladaptive or challenging behaviours that occur in persons with impaired brain function and interfere with performance of occupational tasks. Students will learn to use a functional analysis of behaviour during task performance and combine findings with environmental and discrepancy analyses as well as social validation procedures to determine appropriate intervention strategies. Students will examine how various behaviour change intervention models can be used to promote performance in occupational tasks and determine their relevance to management of clients with impaired brain function. Learning experiences include seminars, case presentations, problem solving exercises and videotaped analysis of students' interactions with clients.

15478 Prescription, Evaluation and Modification of Seating for Occupational Performance

Semester 1 or 2 - 5 units

This subject examines the range of seating equipment available. Students will extend their skill and knowledge in the prescription, evaluation and modification of equipment that promotes performance of occupational tasks in a sitting position. Students will integrate principles of ergonomics, biomechanics and design with principles of occupational performance to determine appropriate seating options for clients whose physical function is compromised by impaired brain function. Learning experiences will include seminars, case presentations and videotaped assessments of client seating.

Speciality Track Occupational Rehabilitation

This specialty track within the graduate certificate course will enhance the students knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational performance has been compromised by the physical, cognitive and psychosocial manifestations of work-related injury or disease.

		Total	Sem 1	Sem 2
<i>Year 1</i>				
15494	Occupational therapy assessment of the individual in occupational rehabilitation	7	7	
15495	Individual intervention strategies in occupational rehabilitation	7	7	
	Elective ¹	5		
15496	Occupational therapy assessment of the environment in occupational rehabilitation	7		7
15497	Environmental intervention strategies	7		7
<i>Stage Total</i>		<i>33</i>		

Notes

¹ One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:

- 15498 Marketing for Occupational Therapists
- 15499 Health Promotion - Theories and Application
- 154A1 Health Promotion - Program Design and Development
Occupational Therapy Clinical Specialty

15494 Occupational Therapy Assessment of the Individual in Occupational Rehabilitation

Semester 1-7 units

This subject examines assessments used by occupational therapists that have been developed for use with individuals who experience difficulty fulfilling their roles as workers. The range of assessments and approaches which will be examined include norm-referenced and criterion-referenced assessments, commercially available systems (e.g. Valpar, WEST, Isernhagen, WorkAbility 3), and non-standardised assessments. Assessments which address performance component deficits in the biomechanical, sensory-motor, cognitive and psychosocial areas relevant to occupational performance in productivity will also be examined. Students will study these assessments in terms of their theoretical base, assumptions, development, strengths, limitations and suitability for use for individuals who are unable to fulfil their productivity roles.

15495 Individual Intervention Strategies in Occupational Rehabilitation

Semester 1-7 units

Following the identification of specific deficits in occupational performance relevant to productivity, the development of appropriate intervention strategies occurs. This subject will examine various approaches to intervention with individuals. The issue of case management and knowledge of the principles and practice of occupational rehabilitation will be addressed. Approaches to work hardening and conditioning in various settings will be considered. The development of intervention programs for individuals with physical, cognitive and psychosocial deficits affecting productivity will be addressed.

15496 Occupational Therapy Assessment of the Environment in Occupational Rehabilitation

Semester 2-7 units

This subject examines the assessment of the overall work environment. Many aspects of an organisation, the work environment and various other systems can impact on the performance of individuals and therefore must be examined. Determining which aspects of the environment to assess as well as the selection of appropriate assessment strategies will be addressed. Assessment of the technical and hardware systems, formal structures and informal structures will be presented. Students will develop skills in the assessment of environments from these various perspectives.

15497 Environmental Intervention Strategies in Occupational Rehabilitation

Semester 2-7 units

Having assessed an organisation, its environment and the contexts and systems in which it operates, it is necessary to then develop appropriate intervention strategies addressing these problems. This subject examines this broad range of interventions. Areas such as designing, adapting and modifying the technical and hardware systems will be addressed, as will interventions relevant to the formal and informal structures. Implications for intervention related to legislative requirements and the broader political environment will be considered.

Elective Subject Descriptions

15451 Occupational Therapy Clinical Specialty *Semester 1 or 2 - 5 units*

This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the student's documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a, case-by-case basis.

15498 Marketing for Occupational Therapists *Semester 1 or 2 - 5 units*

This subject examines marketing concepts and techniques used in the promotion of occupational therapy services through the marketing of services and marketing management. It provides students with the opportunity to develop marketing plans for the provision of professional services relevant to their work environment.

15499 Health Promotion - Theories and Application *Semester 1 or 2 - 5 units*

The aims of this subject are to introduce students to the concept of health promotion, provide an introduction to the conceptual bases which influence health promotion and consider how the application of these theories may influence health promotion programs. Content includes theories which influence health promotion and differing approaches to health promotion varying from individual to populations.

154A1 Health Promotion - Program Design and Development *Semester 1 or 2 - 5 units*

This subject provides opportunities for the student to develop skills in the design, development, implementation and evaluation of health promotion programs and strategies. Needs assessment, program design and process, impact and outcomes evaluation will be covered. Students will develop programs relevant to their own work settings.

Table 11.3 Master of Applied Science (Occupational Therapy)

Course

Code	Mode of offer
1512	Special Program (for Masters Qualifying Students)
1518	By Research, full-time, minimum 2 years
1511	By Research, -part-time, minimum 3 years
15U	By Coursework, full-time, 1 V ₂ - 2 years
1516	By Coursework, part-time, 3 years

By Research

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
15433	Research Thesis			
15435	Theory Process and Practice in Occupational Therapy	7	7	
15449	Research in Occupational Therapy Clinical Practice	14		14
	Elective Subjects	16	8	8
<i>Year 2</i>				
15433	Research Thesis	-	-	-

Part-time Mode*Year 1*

15433	Research Thesis			
15435	Theory Process and Practice in Occupational Therapy	7	7	
15449	Research in Occupational Therapy Clinical Practice	14		14
	Elective Subjects	8		8

Year 2

15433	Research Thesis			
	Elective subjects	8	8	.

year 3 (and subsequent years)

15433	Research Thesis	-	*	*
-------	-----------------	---	---	---

* conducted in these semesters

Notes

¹ The enabling subjects 15435 and 15449 are normally required of all students. They provide the basis for students to undertake advanced study in specific areas of occupational therapy. Elective subjects must include at least one of the following research electives and one or more research electives or subjects relevant to the content area of the thesis up to a total of 8 units.

By Coursework**Full-time Mode***Year 1*

15435	Theory, Process and Practice in Occupational Therapy	7	7	-
15449	Research in Occupational Therapy Clinical Practice	14	-	14
	Foundations of Clinical Practice and/or Clinical Speciality Topics	28	14	14
	<i>Stage Total</i>	<i>49</i>	<i>21</i>	<i>28</i>

Year 2

15444	Project	34	17	17
	Foundations of Clinical Practice and/or Clinical Speciality Topics	13	8	5
	<i>Stage Total</i>	<i>47</i>	<i>25</i>	<i>22</i>

Part-time Mode*Year 1*

15435	Theory, Process and Practice in Occupational Therapy	7	7	-
15449	Research in Occupational Therapy Clinical Practice	14	~	14
	Foundations of Clinical Practice and/or Clinical Speciality Topics	14	7	7
	<i>Stage Total</i>	<i>35</i>	<i>14</i>	<i>21</i>

Year 2

	Foundations of Clinical Practice and/or Clinical Speciality Topics	27	14	13
	<i>Stage Total</i>	<i>27</i>	<i>14</i>	<i>13</i>

Year 3

15444	Project	34	17	17
	<i>Stage Total</i>	<i>34</i>	<i>17</i>	<i>17</i>

Master of Applied Science (Occupational Therapy)

The School of Occupational Therapy offers two graduate courses for occupational therapists. The Master of Applied Science in Occupational Therapy by Research which commenced in 1988 and the Master of Applied Science by Coursework which commenced in 1990.

Admission Requirements

By Research

1. Possess an award of Bachelor of Applied Science (Occupational Therapy) from Cumberland College of Health Sciences or The University of Sydney;

OR

2. Possess an award of Bachelor of applied Science (Hon) in Occupational Therapy from The University of Sydney;

OR

3. Possess an award of Bachelor of Science with a major in Anatomy from The University of New South Wales, and a Graduate Diploma in Occupational Therapy from Cumberland College of Health Sciences;

OR

4. Possess such qualifications as are deemed equivalent to (1), (2) or (3);

OR

5. Submit such other evidence of general and/or professional qualifications as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies;

AND

6. Have the equivalent of a minimum of one year full-time professional experience since graduation as an occupational therapist-

Occupational therapists without these qualifications may be admitted to candidature for the MAppSc (OT) by Research degree by first enrolling in the MAppSc (OT) by Coursework degree. Following completion of the equivalent of one semester of part-time enrolment, students may apply to transfer to candidature for the MAppSc (OT) by Research degree.

By Coursework

1. Possess those qualifications described in (1), (2), (3) and (4) of the requirements for admission to the MAppSc (OT) by Research degree

OR

2. Possess an award of Diploma in Occupational Therapy from a recognised educational body and submit such other evidence of general and/or professional qualifications as will satisfy the Faculty that the applicant possess the educational preparation and capacity to pursue graduate studies;

AND

3. Have the equivalent of a minimum of one year full-time professional experience since graduation as an occupational therapist.

For occupational therapists without these qualifications entry may be possible through successful completion of a qualifying program designed specifically for individual applicants.

Course Outline

The Course Outlines for the Master of Applied Science (Occupational Therapy) by Research and Coursework are presented in table 11.3.

By Research

The Master of Applied Science in Occupational Therapy by research has a combined coursework and applied research thesis format. The course is designed to provide opportunity for advanced study, critical evaluation, and research in specific areas of occupational therapy. The course may be completed full-time or part-time.

Subject Descriptions

15433 Research Thesis

In this subject, students will investigate an area of specialised interest in occupational therapy. Students will be expected to carry out their thesis under approved supervision.

15435 Theory, Process and Practice in Occupational Therapy

Semester 1 - 7 units

In this subject is to develop the student's ability to critically appraise theoretical frameworks and models of practice in occupational therapy. Students will identify the central features of theoretical positions, examine key concepts and validate their implications for research and practice.

15449 Research in Occupational Therapy Clinical Practice

Semester 2 - 14 units

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.

15465 Single System Research Design and Evaluation Methods

Semester 2 - 8 units

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 Designs and Methods for Therapists

Semester 1-8 units

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.

Elective Subjects

For Elective subject descriptions, see Appendix 1.

By Coursework

The Master of Applied Science in Occupational Therapy by coursework has a coursework and project format. The course is designed to provide study in occupational therapy and related topics appropriate for leadership roles in areas of clinical specialisation.

The course can be completed full-time or part-time.

Subject Descriptions

15435 Theory, Process and Practice in Occupational Therapy

Semester 1-7 units

For subject description, refer to Research Degree.

15444 Project

Semester 1 A2-34 units

The purpose of this subject is to synthesise postgraduate learning into a final project. Students conduct and write up their project under the supervision of one or more members of the School faculty and if appropriate in conjunction with staff from the Departments or other Schools. The project may involve program evaluation, application of theory to program design or any other applied research or evaluation project relevant to an aspect of occupational therapy.

15449 Research in Occupational Therapy Clinical Practice

Semester 2-14 units

For subject description, refer to Research Degree.

15451 Occupational Therapy Clinical Specialty

Semester 1 or 2 - 5 units

This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the students documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.

15900 Special Program - Occupational Therapy Master's Qualifying

The Special Programs are devised to meet individual needs. They are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

Foundations of Clinical Practice

This is a program of study designed by the student in consultation with the graduate adviser. Subjects may be chosen from four topic areas:

I Topics in Clinical Research

II Topics in Health Science Education

III Topics in Health Care and Promotion

IV Topics in Clinical Practice

Any combination of subjects may be selected so long as the combination is equivalent to 8 units per semester for 3 semesters and that a minimum of two topic areas is covered. Enrolment in these subjects will be contingent on the student satisfying necessary entry requirements, on places being available, and with the approval of the relevant Head of School or Department from which the course is offered. For elective subject descriptions and unit value, see Appendix 1 and handbook entries from other schools and departments.

Clinical Specialty Topics

This is a program of study designed by the student in consultation with the graduate adviser. Subjects may be chosen from subjects offered in the Graduate Certificate of Applied Science (Occupational Therapy) or other existing post-graduate and master courses within the Faculty, including those listed in Foundations of Clinical Practice, and the subject Occupational Therapy Clinical Specialty (15451). Enrolment in these subjects will be contingent on the student satisfying the necessary entry requirements, on places being available and with the approval of the relevant Head of School or Department from which the course is offered. Any combination of subjects may be selected so long as the combination is equivalent to 8 units per semester for 3 semesters. For elective subject descriptions; see Appendix 1.

I Topics in Clinical Research

- 08441 Program Planning and Evaluation (5 units)
- 08501 Epidemiological Research (8 units)
- 08502 Evaluation Research (8 units)
- 08503 History and Philosophy of Scientific Methodology (8 units)
- 08506 Action Research
- 08522 Introduction to Epidemiology and Biostatistics (5 units)
- 10504 Multivariate Statistics (8 units)
- 10505 Qualitative Research Methods (8 units)
- 10571 Intermediate Statistics (8 units)
- 11501 Biological Measurement and Analysis (8 units)
- 15465 Single System Research Design and Evaluation Methods (8 units)
- 15479 Research Designs and Methods for Therapists (8 units)

II Topics in Health Science Education

- 08506 Planning, implementing and evaluating education experiences (8 units)
- 08431 Producing and using audiovisual materials (5 units)
- 08434 Student Assessment, Evaluation and Development (8 units)
- 08481 Introduction to Health Education (8 units)
- 08482 Large Group Teaching (5 units)
- 08515 Teaching with Reduced Resources (5 units)
- 08520 Clinical Teaching and Supervision (5 units)
- 08520 Adult Learning and Health Sciences (5 units)

III Topics in Health Care and Promotion

- 08445 Women's Health (5 units)
- 08446 Aboriginal Health (5 units)
- 08447 Migrant and Refugee Health (5 units)
- 08456 Legal and Ethical Issues in Community Health (5 units)
- 08488 Counselling Theory and Practice (5 units)
- 08490 Community Development (5 units)
- 08521 Introduction to Community Health Policy and Services (5 units)
- 08523 Australian Society and Health (5 units)
- 08529 Management and Problem Solving (5 units)
- 15441 Lifestyle (5 units)
- 15452 Communication and Conflict in Health Care Environments (5 units)

IV Topics in Clinical Practice

- 15437 Occupational Therapy Theory and Practice in Gerontology (5 units)
- 15451 Occupational Therapy Clinical Speciality
- 15456 Occupational Therapy Theory and Practice in Community (5 units)
- 15457 Occupational Therapy Theory and Practice in Palliative Care (5 units)
- 15459 Managerial Issues in Occupational Therapy (5 units)

Fieldwork

Fieldwork education is an integral part of the occupational therapy and diversional therapy 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 III - 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 24 - July 5 (2 weeks);

Year 2: July 18 - July 26 (3 weeks);

Year 3: February 26 - April 12 (7 weeks) AND
April 22 - June 7 (7 weeks)

Year 4: August 5 - October 11 (ten weeks)

Diversional Therapy Fieldwork

Fieldwork I- A one week block placement in the inter-semester recess, plus 15 hours of Clinical Practicums spread over Semesters 1 and 2.

Fieldwork II - A two week block placement in the inter-semester recess and a 35 hour weekend camp, scheduled at various times during the year. 26 hours of Clinical Practicums Semester 1 plus a 3 hour review session semester 2.

Fieldwork Dates

Year 1: June 24 - June 28 (1 week);

Year 2: July 1 - July 12 (2 weeks)

Uniforms

Students in the occupational therapy course are required to obtain uniforms to be worn while undertaking hospital placements where uniforms are required. Fittings for uniforms will be organised in Semester 1. Students in the diversional therapy course may be required to wear uniforms on some fieldwork placements. A Faculty name badge is required to be worn at all times during fieldwork placements by both occupational therapy and diversional therapy students. These badges can be obtained from the Students' Union.

Occupational Therapy Students

Women

Short Sleeves blouse;
shirtmaker white with navy blue stitching

Navy blue culotte skirt

Navy blue cardigan/jumper

Navy, black or white, closed shoes

Men

White short sleeves shirt

Navy blue trousers

Navy blue cardigan/jumper

Black or brown shoes

Diversional Therapy Students

Women

Blouse: Lemon Shirtmaker

Skirt/Culotte: navy blue

Cardigan/jumper: navy blue

Shoes: closed in, navy blue

Men

Shirt: Lemon Shirtmaker

Trousers: navy blue

Cardigan/jumper: navy blue

Shoes: black

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: 02 646 6250, Fax 02 646 6359).

Table 12.1 Bachelor of Applied Science (Orthoptics)

Course

<i>Code</i>	<i>Mode of Offer</i>
1410	Full-Time, 4 years
1411	Honours Program; Full-time, 4 years

Pass Program

		Total	Sem 1	Sem 2
<i>Year 1</i>				
101B3	Behavioural Sciences	98	49	49
11176	Introductory Human Biology	56	56	-
11178	Introductory Neurobiology	28	28	-
11179	Neurobiology I	28	-	28
11180	Optics	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	-	42
14128	Disorders of the Visual System IA	28	28	-
14129	Disorders of the Visual System IB	28	-	28
14130	Clinical Studies I ¹	48	-	48
	<i>Stage Total</i>	<i>594</i>	<i>273</i>	<i>48</i>
<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 II ²	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
	<i>Stage Total</i>	<i>656</i>		

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	30	-
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>420</i>	<i>284</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	-
14412	Research Project	56	56	-
14413	Clinical Studies IV ⁴	390	-	390
14414	Professional Elective	30	-	30
<i>Stage Total</i>		<i>696</i>	<i>276</i>	<i>420</i>

, Honours Program*Year 1*

As for Pass Course

Year 2

As for Pass Course

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 HI ³	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	40	-
14343	Research Proposal	56	14	42
<i>Stage Total</i>		<i>770</i>	<i>444</i>	<i>326</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

Notes¹ 2 weeks intersemester placement² 4 weeks pre-semester or intersemester³ 15 weeks x 26 hours⁴ Scheduled as appropriate to meet clinical and research objectives

Subject Descriptions

Pass Program

Year 1

101B3 Behavioural Science I

Semester 1-49 hours

Semester 2 - 49 hours

Semester one provides a general introduction to psychology. The course will cover topics of human growth and development, social processes, personality, perception, intelligence, learning and motivation. Semester two 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. To assist the students in mastering the behavioural sciences content, a brief introduction to research methods will be included in both semester one and semester two.

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 - 42 hours

The principles of binocular vision, its anatomical and physiological substrates, are introduced. Topics covered include projection, corresponding retinal points, horopters, 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 - 28 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- 28 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 their basic skills related to instrument design, data collection and data analysis.

112B1 Introductory Pathology

Semester 1 - 28 hours

Pre-requisite Introductory Human Biology (11176)

This is an introduction to microbiology and immunology, including 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 3 or 4-4 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 the 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 IIB (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 I A (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 disorders of components of the anterior visual pathway including glaucoma are studied with emphasis on assessment of the visual field. The assessment of refractive error and special refractive conditions eg keratoconus are also studied.

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 UB. 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 1-30 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)

Paediatric conditions resulting in visual or ocular motor disorders are studied, along with their relationship to embryology and genetics.

14339 Rehabilitation Studies I

Semester 2 - 42 hours

Pre/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 to 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.

Year 4

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.

11408 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.

14111 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 1 - 56 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**Semester 2 - 30 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**Year 3**

Honours students will enrol in the pass subjects Ocular Motility Disorders I (14337), Disorders of the Visual System III (14338), Rehabilitation Studies I (14339), Instrumentation III (14340), 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 - 40 hours**

Students will carry out a structured clinical project in the areas of visual field testing, strabismus/binocular vision and retinoscopy. This project will incorporate principles of correct sampling techniques and statistical analyses of data.

14343 Research Proposal**Semester 1 - 14 hours****Semester 2 - 42 hours**

Students will develop in detail the area of research for their thesis. The emphasis in this subject will be a critical analysis of available literature, the development of a research proposal, and the presentation of these to a critical audience.

Year 4

Honour 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 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.

Table 12.2 Master of Applied Science (Orthoptics)

Course**Code Mode of Offer**

1407 Full-time, minimum 1 year (Honours level entry)

1408 Part-time, minimum 2 years (Honours level entry)

1409 Special Program (for Masters qualifying students)

Full-time Mode

		Total	Sem 1	Sem 2
Year 1				
10503	Intermediate Statistics	8	8	
14501	Professional Elective ¹	10	10	
14502	Research Proposal	10		10
	Research Elective	8		8
Year 2				
14503	Research Thesis ²	-	-	-

Part-time Mode

Year 1

10503	Intermediate Statistics	8	8	
14504	Professional Elective ¹	10	5	5
	Research Elective ²	8		8

Year 2

14502	Research Proposal	10	10	
14503	Research Thesis ²			

Year 3

14503	Research thesis	-	-	-
-------	-----------------	---	---	---

Notes

¹ Students with an Honours level may apply for advanced standing in the subjects Professional Elective, Intermediate Statistics and Research Elective, enabling them to enrol in the subject Research Thesis in the first year of the program.

² Students may elect to enrol in Research Elective in Years 1 or 2, subject to availability and timetabling constraints. (See Appendix 1 for list of available Research Electives).

Master of Applied Science (Orthoptics)

The Master of Applied Science (Orthoptics) is a research degree designed to provide opportunities for research and scholarship in specific areas of applied visual sciences.

Admission Requirements

Pass Level Entry

Applicants should possess either:

1. A Bachelor of Applied Science in Orthoptics from the Faculty of Health Sciences, The University of Sydney OR
2. A Bachelor of Applied Science deemed to be equivalent to the above OR
3. A Diploma of Applied Science in Orthoptics from Cumberland College of Health Sciences PLUS other evidence of professional development or qualifications which will satisfy the Graduate Studies Committee that the applicant possesses the educational preparation and capacity to pursue graduate studies OR
4. Possess such qualifications as are deemed to be equivalent to (1) and/or (2) and (3).

Applicants with a Dip.App.Sc. will normally be required to complete a qualifying program as prescribed by the Graduate Studies Committee.

Honours Level Entry

Applicants who have completed an approved Bachelor degree at Honours level can be admitted to the program. They will not be required to complete a qualifying program.

Time Limits

The minimum length for a pass level will be four semesters full time or six semesters part time, exclusive of any qualifying program. The maximum length would normally be six semesters full time and ten semesters part time.

The minimum length for an honours level entry will be two semesters full time or four semesters part time, with the maximum length six semesters full time and eight semesters part time.

Course Outline

The course outline for the Master of Applied Science (Orthoptics) is presented in Table 12.2.

Subject Descriptions

14900 Special Program - Orthoptics

The Special Programs are devised to meet individual needs. They are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

10503 Intermediate Statistics

Semester 1-8 units

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.

14501 Professional Elective

Semester 1-10 units

The aim of this subject is to allow the student to undertake an advanced study of the theoretical and empirical basis of the intended area of research. The structure of this subject will be determined by the student's needs and individual learning style.

14502 Research Proposal

Semester 2 • 10 units

The information gained from the professional elective subject will be developed into a formal research proposal which will normally form a substantial contribution to the introductory section of the research thesis. Successful completion of this proposal will be required before enrolment in the subject Research Thesis.

14503 Research Thesis

The research thesis forms the major component of the program. Students are given the opportunity to investigate in depth an area of specialised interest in orthoptics or a closely related subject. Each student will work with a supervisor or supervisors who will guide them through each stage of the study and the preparation of the thesis.

Thesis seminars will form an integral part of the program. They will provide a forum for the students to present progress reports on their research and will encourage the free exchange of critical comment on theoretical constructs, methodologies and analysis of results. These seminars will be developed both within the School of Orthoptics and the wider context of postgraduate seminars of the Faculty of Health Sciences.

14504 Professional Elective

Semester 1 - 5 units

Semester 2 - 5 units

The aim of this subject is to allow the student to undertake an advanced study of the theoretical and empirical basis of the intended area of research. The structure of this subject will be determined by the student's needs and individual learning styles.

Research Elective

This elective enables students to study a specific research method which is appropriate to their area of interest. For Research Elective subject descriptions, see Appendix 1.

Clinical Education

Clinical Education comprises approximately one third of the course. Most of this occurs off-campus within the eye clinics in the public hospitals and in private practices sponsored by ophthalmologists; approximately 50 locations in all. Clinical experiences are supported by case study reports and Faculty-based clinical tutorials. Clinical supervision is provided by clinicians and designated clinical supervisors. Opportunities exist for students to elect to do a country, interstate or overseas placement depending on availability.

It is a requirement that all students obtain a certificate of competency in Cardiopulmonary Resuscitation (CPR). This must be completed and evidence of competency shown BEFORE commencing the FIRST CLINICAL PLACEMENT in 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 646 6529.

1996 Clinical Practice Dates

The clinical blocks for 1995 are scheduled as follows:

Year 1

June 24 - July 5

Year 2

January 22 - February 23 OR July 8 - August 2

Year 3

February 26 - June 21

Year 4

August 5 - November 29

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 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 24 June 1996.

13 School of Physiotherapy

Physiotherapy is a health profession which deals with the prevention, assessment and treatment of human movement problems. Physiotherapy services are used in a wide variety of areas such as health care organisations, schools, private practices, community and workplace settings. The physiotherapy profession is committed to continued research into its fundamental concepts and activities, effective communication with members of the health team and community at large, the continuing education of its graduates and the evaluation of physiotherapy services to ensure the optimum quality of care and the development of the base of the profession. Staff and students of the School are actively involved in a number of research projects. These range over several areas including the investigation of human motor performance, musculoskeletal physiotherapy, neurological physiotherapy, occupational health issues, clinical reasoning, cardiopulmonary physiotherapy and physiological regulation.

As one of the foundation schools of the Faculty of Health Sciences (formerly Cumberland College of Health Sciences) at the College's inception in 1975, the School of Physiotherapy has played an important role in the development of the Faculty and its academic programs. Prior to 1975, there was a physiotherapy program conducted through the Australian Physiotherapy Association in New South Wales from 1907.

One of the major goals of the School is graduating competent beginning physiotherapists. To this end, the School's Undergraduate Studies Committee has reviewed the undergraduate 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 e.g. 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 in the development of these programs. 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 coursework programs in manipulative physiotherapy, sports physiotherapy, and a combined program which addresses a number of other sub-disciplines, and research programs at masters and doctoral levels.

In relation to School of Physiotherapy subjects, enrolment in a subject is normally dependent upon the student meeting the entry requirements for the 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, providing 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.

Enquiries regarding academic programs should be directed to the following:

School Administrator, Michael Copping: (Ext. 6378)

The Undergraduate Program Coordinator: Ms Pat Westwood (Ext. 6548)

The Honours Program Coordinator: Ms Elfreda Marshall (Ext. 6273)

The Postgraduate Coursework Programs Coordinator: Mr Martin Mackey (Ext. 6374)

The Research Masters Program Coordinator: Dr Sharon Kilbreath (Ext. 6272)

The PhD Program Coordinator: Associate Professor Jack Crosbie (Ext. 6549)

Table 13.1 Bachelor of Applied Science (Physiotherapy)

Course			Total	Sem 1	Sem 2
<i>Code</i>	<i>Mode of Offer</i>				
1622	Full-time, 4 years - Pass Program				
1642	Full-time, 4 years - Honours Course				
<i>Year 1</i>					
10.1A4	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	-
11288	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*		46	46	-
11374	Body Systems III		24	24	-
11375	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

* For 1996 only, Year 3 students will complete 103B3 Research Methods and Statistics II

10457	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
164G0	Cardiopulmonary Physiotherapy III	24	14	10
164F7	Clinical Education IIIA	190	190	-
164F8	Clinical Education MB	190	190	-
164F9	Clinical Education IIC	190	-	190
<i>Stage Total</i>		866	499	367

B) For students commencing enrolment in 1994

Years 3 and 4 as above

C) For students commencing enrolment in 1993

Year 4 as above

Bachelor of Applied Science (Physiotherapy)

The current undergraduate programs are 4 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 the full-time program who complete all required components are eligible for registration as Physiotherapists with the NSW Physiotherapists' Registration Board.

Admission Requirements

There are no specific prerequisites 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 one of 2u Physics and 2u Chemistry or 3u Science or 4u Science. Students who have not completed these studies recently are advised to consider attending one or more of the pre-semester bridging programs offered by the Faculty of Health Sciences. Please refer to the General Admission Requirements in Chapter 3 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 (e.g. 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. "Category B" Enrolment Information Sheets can be obtained from the School which outline this procedure.

Physiotherapy is a physically demanding profession which requires for its practice the development of a range of precise physical skills. Prospective students should be aware that they will be expected to carry out and have carried out upon themselves as simulated patients, all the examination and treatment procedures used by physiotherapists. Such practical classes may involve partial disrobing. Participation in these classes is a requirement of the program.

Any prospective students who think they may have a consideration, condition or disability which may interfere with the development or practice of physical skills, or with participation in clinical education should consult the Head of the School of Physiotherapy before commencing the program.

Infectious Diseases

The NSW Department of Health has issued guidelines which prevent health care workers and students who have certain infectious diseases from performing any procedures that are defined by the Department as being "exposure-prone".

Students wanting further information are encouraged to read the Faculty's booklet Infectious Diseases and You which is provided to all students. The booklet includes a copy of the Department of Health's guidelines. Students are also welcome to contact the following to discuss any queries or concerns. All queries will be treated as confidential.

Director
Student Administration (Cumberland)
Ph: 646-6236

Chair
Clinical Education Sub-Committee
Faculty of Health Sciences
Ph: 646-6251

Program Outline

The Program 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 Advisers in the School. This will ensure that students' programs are not severely handicapped by an inappropriate or unmanageable combination of subjects.

Subject Descriptions

(Note: Subject descriptions are listed as for 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

Normal human functioning: perception, learning, motivation, intelligence, development, psychophysiology of stress and its effects, coping strategies, stress and performance, learned helplessness, coronary-prone and disease-prone personalities, personality and the immune system.

101A6 Psychology of Motor Behaviour

Semester 2-28 hours

Prerequisite Psychology of Human Performance (101A4)
Information processing and the human sensory-motor system, stages of skill acquisition, motor development, age and skill, automatic versus conscious motor control, expert-novice skill differences, ecological and motor 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

Prerequisite 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

Prerequisite 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

Prerequisites 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 and laser.

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 the student with a comprehensive understanding of normal movement. The student will learn to collect and interpret information about normal motor function using a wide range of methods from descriptive to quantitative. Modules cover the observation and measurement of everyday tasks (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

Prerequisite 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 topic areas, namely the Australian Health Care System and Teaching and Learning Skills. In the first topic area, via a series of lectures, students will be introduced to legal and ethical issues in health care, principles of documentation, health service organisations and professions. The second topic area, Teaching and Learning Skills, in seminar format will cover: trends and issues in higher education, group theory and practice; self-directed learning and learning styles; effective utilisation of library facilities; writing skills; seminar presentation skills; the skills in seeking, receiving and giving feedback; interviewing skills 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**11286 Body Systems II**

Semester 2 - 28 hours

Prerequisite 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.

10288 Social Interaction, Communication and Personality

Semester 1 - 42 hours

Prerequisite 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.

11287 Neurobiology II

Semester 1 - 58 hours

Prerequisite Neurobiology I (11192)

This subject considers the anatomy and physiology of special sensory systems and the control and integration of somatic motor activity and of autonomic function. The higher functions and adaptive properties of the nervous system are also examined, as well as the physiology of pain and pain relief techniques. Considerable emphasis is placed on the anatomical and physiological basis of neurological problems throughout the subject. The subject includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the subject.

11288 Biomechanics

Semester 1 - 40 hours

This subject has three parts. The first part covers the theory of dynamics with particular application to human bodies and follows on directly from the kinematics studied in 11172 and 11173. The second part deals with the active and passive mechanical behaviour of body tissues while the third part considers specific applications of biomechanics of topics of interest to physiotherapists.

16213 Kinesiology II

Semester 1 - 6 hours

Semester 2 - 14 hours

Prerequisite Kinesiology I (1611S)

This subject provides the opportunity for the student to utilise the skills acquired in Kinesiology I by comparing abnormal motor behaviour with a normal model. Students will be required to collect data, organise the information and write up a report.

16223 Physiotherapy in Neurology i

Semester 2 - 24 hours

Co-requisite Neurobiology I (11192)

Physiotherapy in Neurology aims to develop in the student the ability to apply relevant theoretical and data-based scientific findings to clinical practice, particularly in the area of movement dysfunction associated with disease and trauma to the central nervous system. The emphasis is on encouraging students to become independent learners, to analyse their own performance, to measure the outcome of their clinical interventions and to initiate and respond to the need for change. This subject introduces students to the theoretical framework for physiotherapy in neurological rehabilitation. Students study training everyday actions based on biomechanics, muscle biology and motor learning techniques.

16224 Cardiopulmonary Physiotherapy I

Semester 1 - 39 hours

Semester 2 - 24 hours

Prerequisite Body Systems I (11161)

This subject will introduce the student to the knowledge, skills and clinical decision making process necessary for effective assessment and management of patients with respiratory and cardiac dysfunction. In particular, the student will evaluate the pathophysiological consequences of abdominal and thoracic surgery, infective and inflammatory conditions and airflow limitations on pulmonary function and impaired cardiac function on the cardiovascular performance. Additionally, the student will develop treatment strategies to effectively manage respiratory and cardiac problems identified in adults or

children. There will be an emphasis on preventative management and the subject will provide the student with an opportunity to apply, integrate and extend knowledge gained in Year 1 Biological Sciences, Musculoskeletal Physiotherapy and Kinesiology.

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. 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. Here the student will review the use of communication to address common ethical dilemmas faced in clinical practice. It is unlikely that Advanced Standing will be granted for this subject since knowledge of the law and how it relates to physiotherapy practice must be current.

16231 Electrophysical Agents II

Semester 1 - 43 hours

Prerequisite 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 and transcutaneous electrical nerve stimulation for both sensory and motor responses and ultraviolet radiation.

16232 Musculoskeletal Physiotherapy II

Semester 1 - 76 hours

Semester 2 - 22 hours

Prerequisites Functional Anatomy A and B (11172 and 11173), Musculoskeletal Physiotherapy I (16116)

This subject aims to equip the student with the necessary cognitive and practical skills to effectively assess and manage, at a basic level, patients with selected problems with the peripheral musculoskeletal system. This subject will include components of rheumatology and paediatric musculoskeletal physiotherapy.

16233 Clinical Education IA

Semester 2 - 144 hours

Prerequisite Electrophysical Agents II (16231)

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

This unit aims to develop the students' skills in managing outpatients with selected disorders of the peripheral musculoskeletal system and in some settings, disorders of the cardiopulmonary system. The emphasis in this unit is on the aspects of examination, analysis of information gained from the examination and the implementation of a treatment program.

This subject is equivalent in content to 16227 Clinical Education IA

16234 Clinical Education IB

Semester 2 - 144 hours

Prerequisite Electrophysical Agents II (16231)

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

The aim of this unit is to provide an opportunity for the student to become effective (commensurate with his/her knowledge, skills and experience) and safe in managing patients who are admitted to general medical and surgical wards.

This subject is equivalent in content to 16228 Clinical Education IB

Year 3

10398 Social Theory and Health

Semester 1 - 42 hours

This unit aims to develop an understanding of basic sociological concepts and their relationship to health care. The program will increase the student's ability to critically examine and evaluate aspects of society with which they are familiar in order to extend their understanding of social structures, organisational contexts and processes relevant to health, illness and health care. Conceptually it will begin at the macro level of the health system and policy formulation and move to the micro level of the client and practitioner. In addition, the unit will extend student's knowledge of the methods of analysing and interpreting sociological data in the health area.

103B9 Research Methods II: Data Analysis

Semester 1 - 46 hours

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

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

Prerequisite Body Systems II (11286)

This subject will present the anatomy and physiology of the endocrine and reproductive systems, general principles of pharmacology, and the pharmacology of relevant body systems.

11375 Applied Physiology

Semester 1 - 26 hours

Semester 2-48 hours

Co-requisite Body Systems III (11374)

The aim of this subject is to provide the student with an understanding of the responses that occur in men and women during exercise. This subject will build upon the principles and information provided in the earlier years of the program and will also attempt to provide the student with an understanding of the exercise response in both healthy (e.g. marathon runners) and diseased populations (e.g. peripheral vascular disease patients). The approach will be integrative, with particular attention given to the regulation of the changes in the cardiovascular, respiratory, endocrine and metabolic systems during exercise.

16320 Physiotherapy in Neurology II

Semester 1-42 hours

Semester 2 - 21 hours

Prerequisite 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 examines the health care needs for specific groups. The physiotherapist's contribution in a wide variety of speciality areas such as burns, AIDS, mental health, women's health, diabetes etc will be discussed. The second strand provides an overview of the principles and practice of health promotion. It is designed to give students a perspective of health promotion within a community based framework. Current issues in community based rehabilitation will also be addressed in this strand.

16329 Research and Investigation I

Semester 2 - 30 hours

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

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

Prerequisites Body Systems II (11286), Cardiopulmonary Physiotherapy I (16224)

Co-requisite Applied Physiology (11375)

The aim of this subject is to continue to develop knowledge and skills in the assessment and management of patients with cardiopulmonary dysfunction. The students will examine specific clinical and professional issues relating to the acute care environment. The emphasis will be on preventative and treatment managements, and the ongoing education of the patient, family and other health professions. This subject further develops the students' knowledge of exercise, and aims to apply the principles of exercise testing, prescription and training. These principles will be applied to patients that have cardiac and pulmonary limitations to exercise. There will be further scope to apply the principles of exercise to patient groups with various medical disorders and to the normal population to promote health through seminar presentations.

16331 Musculoskeletal Physiotherapy III

Semester 1 - 70 hours

Semester 2-16 hours

Prerequisite 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

Prerequisites Clinical Education IA (16233), Clinical Education IB (16234)

Co-requisites Cardiopulmonary Physiotherapy II or IIA (16330 or 16333) Physiotherapy in Neurology II (16320), Musculoskeletal Physiotherapy III or IIIA (16331 or 16334)

The student will build on the experience gained in Clinical Education IA and IB. The student will be expected to demonstrate an increased ability in managing the patient (assessment, treatment and evaluation). Professional practices will also be emphasised. The clinical placement will be in one of the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas.

This subject is equivalent in content to 16325 Clinical Education II

Note: Students failing Musculoskeletal Physiotherapy III or IIIA (16331 or 16334) will be precluded from completing the Musculoskeletal module of Clinical Education II.

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

Prerequisites 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

Prerequisite 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; Chronic Pain and Illness; The Elderly.

164F4 Musculoskeletal Physiotherapy IV

Semester 2 - 32 hours

Prerequisite Musculoskeletal Physiotherapy III (16322 or 163331)

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.

164F5 Research and Investigation II

Semester 1-10 hours

Semester 2 - 20 hours

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

Prerequisite 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 IIIA

Semester 1-190 hours

Prerequisites Clinical Education II (16332 or 16325), Musculoskeletal

Physiotherapy III (16322 or 163331) 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.

This subject is equivalent in content to 16465 Clinical Education IIIA

Note: students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education HIA, B or C

164F8 Clinical Education IIIB

Semester 1 -190 hours

Prerequisites Clinical Education 11(16332 or 16325), Musculoskeletal

Physiotherapy III (16322 or 163331) 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.

This subject is equivalent in content to 16466 Clinical Education IIIB.

Note: students failing Musculoskeletal Physiotherapy in are precluded from undertaking the Musculoskeletal Module of Clinical Education IIIA, B or C.

164F9 Clinical Education NIC

Semester 2 - 190 hours

Prerequisites Clinical Education 11(16332 or 16325), Musculoskeletal

Physiotherapy III (16322 or 163331) 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.

This subject is equivalent in content to 16482 Clinical Education IIIC

Note: students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education HIA, B or C.

164G0 Cardiopulmonary Physiotherapy III

Semester 1 -14 hours

Semester 2-10 hours

Prerequisite Cardiopulmonary Physiotherapy II (16330), Applied

Physiology (11375)

This course aims to further develop the students' understanding of cardiopulmonary dysfunction, the scientific basis for therapeutic intervention and the process of clinical decision making. Areas that will be addressed include the management of individuals with one or more of the following disorders - chronic/acute airflow limitation, cardiovascular disease, respiratory muscle dysfunction, cardiac and lung transplantation. There is an emphasis throughout the subject on self-directed learning and skills in presenting justification for clinical intervention.

Table 13.2 Bachelor of Applied Science (Physiotherapy) - Honours**Course****Code** **Mode of Offer**

1622 Full-time, 4years-PassProgram

1642 Full-time, 4years-Honours Course

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

		Total	Sem 1	Sem 2
<i>Year 3 1996</i>				
10392	Research Statistics	28	.	28
10398	Social Theory and Health	42	42	-
11374	Body Systems III	24	24	-
11375	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 ID	86	70	16
16335	Research for Physiotherapists	68	36	32
16332	Clinical Education II	190	-	190
<i>Stage Total</i>		<i>665</i>	<i>277</i>	<i>388</i>
<i>Year 4 1996</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 IIIHB	180	180	-
164F9	Clinical Education IIIC	190	-	190

Honours Program

See Table 13.2 for course outline.

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

In order for honours students to have adequate time to pursue their research studies a number of modifications have been made to the pass 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 will complete three clinical education subjects which are similar in content and goals to the pass program subjects. However, the first two subjects will vary in hours from the parallel pass subjects. That is honours students will complete 164G1 Clinical Education IIIHA instead of 164F7 Clinical Education

IIIA and will complete 164G2 Clinical Education IIIHB instead of 164** Clinical Education IHB. They will also complete 164F8 Clinical Education IDC along with the pass students. Honours students should note that due to these concessions their total clinical hours are 1000 which is the minimum required clinical hours for course completion. Therefore, they will normally be required to make up any non-attended clinical hours.

Semester 7 Timetabling Flexibility: In Year 4 students are permitted (with support of their supervisors) to spread their Pass program in Semester 7 over weeks 4-13 or concentrate these Pass program studies in weeks 4-8 (with Group B of the Pass Students) or in weeks 9-13 (with Group A of the Pass Students) to allow for flexibility in accommodating the needs of different students' honours projects (e.g. in terms of data collection). This decision would be required before the end of Week 3 of Year 4.

Additional subjects: Honours students complete the following extra subjects: 10392 Research Statistics, 16319 Research for Physiotherapists, 16499 Honours Thesis and 164F2 Honours Research Seminar

Subject 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

Prerequisite Research Methods II: Data Analysis (10289 or 103")

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

16335 Research for Physiotherapists

Semester 1-36 hours

Semester 2 - 32 hours

This subject will enable students to build on previous knowledge of research methods and develop skill in applying this to research models for physiotherapists. The subject will enable students to evaluate the suitability of assumptions made in physiotherapy related research, to evaluate design strategies used and their appropriateness for the research undertaken and to design and evaluate effective sampling procedures for a particular research project. By the time the student has completed the subject he/she will have prepared a written research proposal.

Year 4

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)

This subject supports Honours students with their ongoing research. It is intended that students will develop their presentation abilities, critical analysis skills and their

understanding of the research process. This subject will also contain problem-solving sessions in which students can discuss problems arising in their projects.

164G1 Clinical Education IIIHA

Semester 1 -152 hours

Prerequisites Clinical Education II (16325 or 16332), Musculoskeletal Physiotherapy III (16322 or 163331) 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.

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

Note: students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education ULA, B or C).

164G2 Clinical Education IIIHB

Semester 1-180 hours

Prerequisites Clinical Education II (16325 or 16332), Musculoskeletal Physiotherapy III (16322 or 163331) 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.

This subject is equivalent in content to 164** Clinical Education niB

Note: students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education mA, B or C).

Note: While enrolled in this subject honours students can negotiate with their honours project supervisor and their clinical education supervisor to be absent from their clinical placement for 10 hours during the placement to engage in honours studies and/or meetings with supervisors. (Thus this subject is 10 hours less than the parallel pass subject.)

Table 13.3 Graduate Diploma of Applied Science (Manipulative Physiotherapy)

Course

Code	Mode of Offer
1607	Full-Time 1 Year
1612	Part-Time 2 Years

Full-Time Mode

		Total	Sem 1	Sem 2
10458	Psychology	2	-	2
11455	Anatomy & Biomechanics A	5	5	-
11456	Anatomy & Biomechanics B	3	-	3
11457	Neurophysiology & Pharmacology	4	4	-
164A7	Professional Skills in Manipulative Physiotherapy A	11	11	-
164A8	Professional Skills in Manipulative Physiotherapy B	12	-	12
16467	Clinical Reasoning A	5	5	-
16468	Clinical Reasoning B	4	-	4
16508	Scientific Investigation I	5	-	5
16509	Medical Sciences	3	1	2
16510	Clinical Manipulative Physiotherapy A ¹	15	15	-
16511	Clinical Manipulative Physiotherapy B ¹	15	-	15

Stage Total 84 41 43

Part-Time Mode

Year 1

11455	Anatomy & Biomechanics A	5	5	-
11456	Anatomy & Biomechanics B	3	-	3
11457	Neurophysiology & Pharmacology	4	4	-
164A7	Professional Skills in Manipulative Physiotherapy A	11	11	-
164A8	Professional Skills in Manipulative Physiotherapy B	12	-	12
16508	Scientific Investigation I	5	-	5
	<i>Stage Total</i>	<i>40</i>	<i>20</i>	<i>20</i>

Year 2

10458	Psychology	2	-	2
16467	Clinical Reasoning A	5	5	-
16468	Clinical Reasoning B	4	-	4
16509	Medical Sciences	3	1	2
16510	Clinical Manipulative Physiotherapy A ¹	15	15	-
16511	Clinical Manipulative Physiotherapy B ¹	15	-	15
	<i>Stage Total</i>	<i>44</i>	<i>21</i>	<i>23</i>

Note

¹ Clinical Manipulative Physiotherapy will be conducted as three afternoon sessions for ten weeks in Semesters 1 & 2.

Graduate Diploma of Applied Science (Manipulative Physiotherapy)

Enquiries

Graduate Diploma Course Coordinator: Kathryn Refshauge (ext.6180)

Masters Course Coordinator: Martin Mackey (ext. 6374)

Manipulative Physiotherapy is a physically demanding course of study which requires for its practice the development of a range of precise physical skills. Prospective students should be aware that they will be expected to carry out and have carried out upon themselves as simulated patients, the examination and treatment procedures used by manipulative physiotherapists. Partial disrobing will be required in these classes. All students are required to provide the School of Physiotherapy with recent X-rays of their Cervical, Thoracic and Lumbar spines prior to the commencement of the spinal manipulation classes. Any prospective students who think they may have a condition or disability which may interfere with the development or practise of manipulative physiotherapy skills should consult the Course Co-ordinator, Kathryn Refshauge (ext. 6180) before commencing the course.

Admission Requirements

The Faculty may, on the recommendation of the Head of School concerned, admit to candidature for a graduate diploma or graduate certificate within the Faculty an applicant:

- who is a graduate of the University of Sydney and has completed courses appropriate to the area of study⁽¹⁾ 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.

- who, in addition, meets any other requirements for admission to a particular program that has been prescribed by Faculty.

In the case of the Graduate Diploma of Applied Science (Manipulative Physiotherapy) applicants should normally have completed at least two years recent clinical experience in the management of musculoskeletal disorders, and be presently engaged in related clinical practice.

Selection

Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment

Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Progression

Progression from the graduate diploma to the masters program, whether the student originally enrolled in the graduate diploma or the masters program, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline

The Course Outline for the Graduate Diploma of Applied Science (Manipulative Physiotherapy) is presented in Table 13.3.

Subject Descriptions

10458 Psychology

Semester 2 - 2 units

The aim of this subject is to further develop the students' understanding of psychological aspects of pain and loss of function, and psychological approaches to the management of stress, illness and pain.

⁽¹⁾ Appropriate courses are those deemed equivalent to the Bachelor Degree in Physiotherapy from Cumberland College of Health Sciences or The University of Sydney.

11455 Anatomy and Biomechanics A*Semester 1 - 5 units*

This subject will further the students' understanding of the anatomy and biomechanics of the thoracic and lumbar vertebral column and the lower limb. The focus is on critical evaluation of existing manipulative physiotherapy procedures and on recent scientific developments of relevance to disorders of the musculoskeletal system.

11456 Anatomy and Biomechanics B*Semester 2 - 3 units*

This subject will further the students' understanding of the anatomy and biomechanics of the cervical and thoracic vertebral column and the upper limb. The focus is on critical evaluation of existing manipulative physiotherapy procedures and on recent scientific developments of relevance to disorders of the upper body.

11457 Neurophysiology and Pharmacology*Semester 1 - 4 units*

This subject focuses on the motor and sensory systems of neurophysiology and recent scientific developments in these areas. Special emphasis is given to the neurophysiological bases of pain and pain modulation.

164A7 Professional Skills in Manipulative Physiotherapy A*Semester 1-11 units*

Co-requisites Anatomy and Biomechanics A (11455), Neurophysiology & Pharmacology (11457)

The two modules, human interaction processes and professional skills, advance students' manipulative physiotherapy skills in examination of patients with musculoskeletal disorders of the lower body and planning and implementing appropriate treatment programs for those disorders. Students also develop a greater understanding and skill in the process of communication between the patient and the physiotherapist.

164A8 Professional Skills in Manipulative Physiotherapy B*Semester 2- 12 units*

Pre-requisite Professional Skills in Manipulative Physiotherapy A (164A7)

Co-requisites Anatomy and Biomechanics B (11456), Psychology (10458)

Students advance their skills in examination of patients with musculoskeletal disorders of the upper body, in planning and implementing appropriate treatment courses for these disorders, and in evaluating the effectiveness of these treatment programs.

16467 Clinical Reasoning A*Semester 1 - 5 units*

Pre or Co-requisites Professional Skills in Manipulative Physiotherapy A (164A7), Anatomy and Biomechanics A (11455)

Co-requisite Clinical Manipulative Physiotherapy A (16510)

Students further develop the cognitive skills of clinical reasoning and problem-solving applied to musculoskeletal disorders of the lower body, using the knowledge and experience gained in the co-requisite subjects. In this way, this subject provides a means for the integration of the other subjects studied.

16468 Clinical Reasoning B*Semester 2 - 4 units*

Pre-requisite Clinical Reasoning A (16467)

Pre or Co-requisites Professional Skills in Manipulative Physiotherapy B (164A8), Anatomy and Biomechanics B (11456)

Co-requisite Clinical Manipulative Physiotherapy B (16511)

Students further develop the cognitive skills of clinical reasoning and problem-solving applied to musculoskeletal disorders of the upper body, using the knowledge and experience gained in the co-requisite subjects. In this way, this subject provides a means for the integration of the other subjects studied.

16508 Scientific Investigation I*Semester 2 - 5 units*

This subject develops students' skills in analysis of data. It examines common statistical tests with the aim of enabling students to understand research papers as well as enabling them to choose appropriate statistical methods of analysing data. It also examines issues relating to measurement including reliability and validity. Students will have the opportunity to apply statistical tests to small data sets of measurement procedures that they will collect, or that have been previously collected.

16509 Medical Sciences*Semesters 1 & 2-3 units*

This subject is presented in lecture/seminar format and the content areas may cover Neurology, Oncology, Orthopaedics, Radiology, Rheumatology and Vascular Disorders. The student gains further knowledge of disease processes and symptomatology, relevant diagnostic procedures and trends in management and research in the areas of medicine studied.

16510 Clinical Manipulative Physiotherapy A*Semester 1 -15 units*

Pre or Co-requisites Professional Skills in Manipulative Physiotherapy A (164A7), Anatomy and Biomechanics A (11455)

Co-requisite Clinical Reasoning A (16467)

Students advance their clinical competence by developing further skills and integrating their knowledge from the underpinning sciences, in managing musculoskeletal disorders of the lower body.

16511 Clinical Manipulative Physiotherapy B*Semester 2 15 units*

Pre-requisite Clinical Manipulative Physiotherapy A (16510)

Pre or Co-requisites Professional Skills in Manipulative Physiotherapy B (164A8), Anatomy and Biomechanics B (11456)

Co-requisite Clinical Reasoning B (16468)

Students consolidate their clinical experience. They also develop further skills and integrate their knowledge from the underpinning sciences, in managing musculoskeletal disorders of the upper body.

Table 13.4 Master of Applied Science (Manipulative Physiotherapy)

Course

Code	<i>Mode of Offer</i>
1632	Full-Time IV ₂ Years
1633	Part-Time 3 Years

Full-time Mode

		Total	Sem 1	Sem 2
10458	Psychology	2	-	2
11455	Anatomy & Biomechanics A	5	5	-
11456	Anatomy & Biomechanics B	3	-	3
11457	Neurophysiology & Pharmacology	4	4	-
164A7	Professional Skills in Manipulative Physiotherapy A	11	11	-
164A8	Professional Skills in Manipulative Physiotherapy B	12	-	12
16508	Scientific Investigation I	5	-	5
16509	Medical Sciences	3	1	2
16467	Clinical Reasoning A	5	5	-
16468	Clinical Reasoning B	4	-	4
16510	Clinical Manipulative Physiotherapy A ¹	15	15	-
16511	Clinical Manipulative Physiotherapy B ¹	15	-	15
	<i>Stage Total</i>	84	41	43

Year 2

08576	History and Philosophy of Scientific Methodology	5	5	-
	OR	OR		
16512	Scientific Investigation II	5	5	-
164B3	Distinguished Scientist Series	5	5	-
164B4	Treatise	22	22	-
	<i>Stage Total</i>	32	32	

Part-Time Mode

Year 1

11455	Anatomy & Biomechanics A	5	5	-
11456	Anatomy & Biomechanics B	3	-	3
11457	Neurophysiology & Pharmacology	4	4	-
164A7	Professional Skills in Manipulative Physiotherapy A	11	11	-
164A8	Professional Skills in Manipulative Physiotherapy B	12	-	12
16508	Scientific Investigation I	5	-	5
	<i>Stage Total</i>	40	20	20

Year 2

10458	Psychology	2	-	2
16467	Clinical Reasoning A	5	5	-
16468	Clinical Reasoning B	4	-	4
16509	Medical Sciences	3	1	2
16510	Clinical Manipulative Physiotherapy A ¹	15	15	-
16511	Clinical Manipulative Physiotherapy B ¹	15	-	15
	<i>Stage Total</i>	44	21	23

Note

Treatise may be taken as part time over one year.

¹ Clinical Manipulative Physiotherapy will be conducted as three afternoon sessions for ten weeks in Semesters 1 & 2.

Year 3

08576	History and Philosophy of Scientific Methodology	5	5	-
	OR	OR		
16512	Scientific Investigation II	5	5	-
164B3	Distinguished Scientist Series	5	5	-
164B4	Treatise	22	22	-
	<i>Stage Total</i>	32	32	

Master of Applied Science (Manipulative Physiotherapy)

Enquiries

Graduate Diploma Course Coordinator: Kathryn Refshaug (ext. 6180)

Masters Course Coordinator: Martin Mackey (ext. 6374)

Manipulative Physiotherapy is a physically demanding course of study which requires for its practice the development of a range of precise physical skills. Prospective students should be aware that they will be expected to carry out and have carried out upon themselves as simulated patients, the examination and treatment procedures used by manipulative physiotherapists. Partial disrobing will be required in these classes. All students are required to provide the School of Physiotherapy with X-rays of their Cervical, Thoracic and Lumbar spines prior to the commencement of the spinal manipulation classes. Any prospective students who think they may have a condition or disability which may interfere with the development or practise of manipulative physiotherapy skills should consult the Graduate Diploma of Applied Science (Manipulative Physiotherapy) Course Co-ordinator, Kathryn Refshaug (ext. 6180) before commencing the course.

Admission requirements

The Faculty may, on the recommendation of the Head 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⁽¹⁾ 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.

In the case of the Master of Applied Science (Manipulative Physiotherapy) applicants should normally have completed at least two years recent clinical experience in the management of musculoskeletal disorders, and be presently engaged in related clinical practice.

Selection

Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment

Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Credit Transfer

Applicants holding an approved graduate diploma in manipulative physiotherapy may apply for Credit Transfer in the Masters program. Decisions will be made on an individual basis.

Progression

Progression from the graduate diploma to the masters program, whether the student originally enrolled in the graduate diploma or the masters program, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline

The Course Outline for the Master of Applied Science (Manipulative Physiotherapy) is presented in Table 13.4.

Subject Descriptions

Refer to the Graduate Diploma of Applied Science (Manipulative Physiotherapy) for subject descriptions not listed below.

08576 History and Philosophy of Scientific Methodology

Semester 1 - 5 units

This subject is designed to provide students with a critical perspective on science as a specific form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

164B3 Distinguished Scientist Series

Semester 1 - 5 units

This subject involves the study of a researcher's (or group of researchers') work in detail. The researcher(s) will be invited to the campus to participate in seminars to enable the students to discuss and explore issues with them directly. The content will be decided on the basis of the individual interests of the students.

164B4 Treatise

Semester 1 and/or 2-22 units

The treatise involves the preparation of a non-research work in a specific area of interest under supervision. It is a substantial scholarly work that is an exposition of a range of knowledge and is expected to include original argument substantiated by reference to acknowledged authorities. It does not usually involve data collection but may take the form of developing a clinical tool. The aim of this work is for students to integrate background material and provide cohesive, structured suggestions for physiotherapy development or practice. It is carried out in partial fulfilment of the master degree by coursework. Some hours are set aside for classes in scientific writing but the majority of the hours will be spent in consultation with the supervisor or in independent study.

16512 Scientific Investigation II

Semester 1 - 5 units

This subject develops students' skills in writing scientifically. The content for this subject covers developing research questions and writing them up as a grant submission. The issues of developing research questions by setting the inquiry in the context of the state of the profession, the state of scientific knowledge of the area and an evaluation of existing paradigms will be examined. Students' learning will involve preparing an annotated bibliography and writing a proposal as if applying for funding from the Physiotherapy Research Foundation.

⁽¹⁾ Appropriate courses are those deemed equivalent to the Bachelor Degree in Physiotherapy from Cumberland College of Health Sciences or The University of Sydney.

Table 13.5 Graduate Diploma of Applied Science (Sports Physiotherapy)

Course

<i>Code</i>	<i>Mode of Offer</i>
1640	Full-time, 1 year
1641	Part-time, 2 years

Full-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
10458	Psychology	2	-	2
10472	Motor Performance and Learning	5	5	-
11429	Applied Physiology I	8	8	-
11436	Applied Physiology II	6	;	6
11461	Clinical Biomechanics	4	-	4
11468	Mechanics of Human Movement	6	6	-
11470	Functional Anatomy	6	-	6
16508	Scientific Investigation I	5	•	5
16509	Medical Sciences	3	1	2
16512	Scientific Investigation II	5	5	-
16513	Clinical Management of Sporting Injuries	14	7	7
16514	Clinical Sports Physiotherapy	16	8	8
<i>Stage Total</i>		80	40	40

Part-time Mode

<i>Year 1</i>				
11429	Applied Physiology I	8	8	-
11461	Clinical Biomechanics	4	-	4
11468	Mechanics of Human Movement	6	6	-
11470	Functional Anatomy	6	-	6
16508	Scientific Investigation I	5	-	5
16509	Medical Sciences	3	1	2
<i>Stage Total</i>		32	15	17

Year 2

10458	Psychology	2	-	2
10472	Motor Performance and Learning	5	5	-
11436	Applied Physiology II	6	-	6
16512	Scientific Investigation II	5	5	'
16513	Clinical Management of Sporting Injuries	14	7	7
16514	Clinical Sports Physiotherapy	16	8	8
<i>Stage Total</i>		48	25	23

Graduate Diploma of Applied Science (Sports Physiotherapy)

Enquiries

Graduate Diploma Course Coordinator: Elizabeth Henley (ext.6268)

Admission Requirements

The Faculty may, on the recommendation of the Head of School concerned, admit to candidature for a graduate diploma or graduate certificate 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⁽¹⁾ 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.

In the case of the Graduate Diploma of Applied Science (Sports Physiotherapy) applicants should also have at least two years recent graduate clinical experience relevant to sports physiotherapy and should be currently employed in a sports physiotherapy context.

Selection

Selection, will take into account employment history, qualifications, continuing education and other professional development.

⁽¹⁾ Appropriate courses are those deemed equivalent to the Bachelor Degree in Physiotherapy from Cumberland College of Health Sciences or The University of Sydney.

Subject Enrolment

Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Progression

Progression from the graduate diploma to the masters program, whether the student originally enrolled in the graduate diploma or the masters program, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline

The Course Outline for the Graduate Diploma of Applied Science (Sports Physiotherapy) is presented in Table 13.5.

Subject Descriptions

10458 Psychology

Semester 2 - 2 units

The aim of this subject is to further develop the students' understanding of psychological aspects of pain and loss of function, and psychological approaches to the management of stress, illness and pain.

10472 Motor Performance and Learning

Semester 1 - 5 units

This subject considers principles underlying skilled motor performance:- sensory contributions to performance, processing information and making decisions, motor production and motor programs. It then looks at principles underlying skilled learning:- preparation, practice strategies and feedback. Activities studied include walking, reaching and grasping, speaking, singing and smiling, eye hand coordination and hitting approaching balls. Ecological and motor program approaches to motor learning are considered.

11429 Applied Physiology I

Semester 1 - 8 units

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

11436 Applied Physiology II

Semester 2-6 units

Pre-requisite Applied Physiology I (11429)

This subject will build upon the principles and information provided in Applied Physiology I, and will focus upon the regulation of the exercise response. While the changes that occur during exercise are important, this subject will aim primarily at providing the student with the necessary understanding of the mechanisms behind these changes. Particular attention will be given to cardiovascular control, adaptation to dynamic and static exercise, metabolic regulation, respiratory control and thermoregulation. It is expected that while the content of this subject will remain fixed, the level and emphasis of each section will vary according to current staff background and research interest.

11461 Clinical Biomechanics

Semester 2- 4 units

Pre-requisite Mechanics of Human Movement (11468)

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

11468 Mechanics of Human Movement

Semester 1-6 units

This subject will provide biomechanical concepts and skills required for the analysis of human movement. Principles of kinematics, kinetics and electromyography in dynamic muscle movements, and mechanical energy distribution will be studied with reference to selected motor activities. Laboratory sessions will be used to provide illustrations of the above principles and to give students experience with biomechanical laboratory techniques. This subject is only open to graduates who have studied biomechanics previously.

11470 Functional Anatomy

Semester 2 - 6 units

This subject aims to investigate the relationship between anatomical structure and function, particularly as it relates to the body during exercise. It will include advanced musculoskeletal anatomy of the limbs and trunk undertaken from a theoretical and practical approach in the anatomy laboratory.

16508 Scientific Investigation I

Semester 2 - 28 hours

This subject develops students' skills in analysis of data. It examines common statistical tests with the aim of enabling students to understand research papers as well as enabling them to choose appropriate statistical methods of analysing data. It also examines issues relating to measurement including reliability and validity. Students will have the opportunity to apply statistical tests to small data sets of measurement procedures that they will collect, or that have been previously collected.

16509 Medical Sciences

Semesters 1 and 2-3 units

This subject is presented in lecture/seminar format and the content areas may cover Neurology, Oncology, Orthopaedics, Radiology, Rheumatology and Vascular Disorders. The Student gains further knowledge of disease processes and symptomatology, relevant diagnostic procedures and trends in management and research in the areas of medicine studied.

16512 Scientific Investigation II*Semester 1 - 5 units*

This subject develops students' skills in writing scientifically. The content for this subject covers developing research questions and writing them up as a grant submission. The issues of developing research questions by setting the inquiry in the context of the state of the profession, the state of scientific knowledge of the area and an evaluation of existing paradigms will be examined. Students' learning will involve preparing an annotated bibliography and writing a proposal as if applying for funding from the Physiotherapy Research Foundation.

16513 Clinical Management of Sporting Injuries*Semesters 1 and 2-14 units*

This subject will focus on assessment, diagnosis and management of injury as well as prevention of injury and screening of athletes. This will include a critical evaluation of current procedures and practices used in the management of the sports person, and the role of the sports professional in the prevention of injuries. The subject aims to integrate relevant knowledge from related sciences into sports physiotherapy practice, such as response of body tissue to injury, immobilization and rehabilitation, the influence of these factors upon tissue repair and the restoration of function.

16514 Clinical Sports Physiotherapy*Semester 1 and Intersemester break - 8 units**Semester 2 - 8 units*

The Clinical Sports Physiotherapy subject will provide the opportunity for students to integrate their knowledge gained in other subjects in this course, and their previous clinical knowledge and skill, with new approaches to the management of the person with a sports injury. Clinical learning opportunities will be provided in a variety of spheres of sports physiotherapy practice including different age groups and different types of sport, and ranging from acute field management to procedures designed to prevent injury or effectively deal with chronic or recurrent injuries. Note: Overseas physiotherapists can apply for registration or approval to practise during the course.

Table 13.6 Master of Applied Science (Sports Physiotherapy)*Course*

<i>Code</i>	<i>Mode of Offer</i>
1630	Full-time, 2.5 years
1631	Part-time, 3 years

Part-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
16508	Scientific Investigation I	5		5
11429	Applied Physiology I	8	8	
11470	Functional Anatomy	6		6
11461	Clinical Biomechanics	4		4
11468	Mechanics of Human Movement	6	6	
16509	Medical Sciences	3	1	2
	<i>Stage Total</i>	32	15	17
<i>Year 2</i>				
10458	Psychology	2		2
16512	Scientific Investigation II	5	5	
10472	Motor Performance and Learning	5	5	
11436	Applied Physiology II	6		6
16513	Clinical Management of Sporting Injuries	14	7	7
16514	Clinical Sports Physiotherapy	16	8	8
	<i>Stage Total</i>	48	25	23
<i>Year 3</i>				
08576	History and Philosophy of Scientific Methodology	5	5	
164B3	Distinguished Scientist Series	5	5	
164B4	Treatise	22	8	14
	<i>Stage Total</i>	32	18	14

Master of Applied Science (Sports Physiotherapy)

Enquiries

Graduate Diploma Course Coordinator: Elizabeth Henley (ext. 6268)

Masters Course Coordinator: Martin Mackey (ext. 6374)

Admission Requirements

The Faculty may, on the recommendation of the Head 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⁽¹⁾ 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.

In the case of the Master of Applied Science (Sports Physiotherapy) applicants should also have at least two years recent graduate clinical experience relevant to sports physiotherapy and should be currently employed in a sports physiotherapy context.

Selection

Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment

Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Credit Transfer

Applicants holding an approved graduate diploma in manipulative physiotherapy may apply for Credit Transfer in the Masters program. Decisions will be made on an individual basis.

Progression

Progression from the graduate diploma to the masters program, whether the student originally enrolled in the graduate diploma or the masters program, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline

The Course Outline for the Master of Applied Science (Sports Physiotherapy) is presented in Table 13.6.

Subject Descriptions

Refer to the Graduate Diploma of Applied Science (Sports Physiotherapy) for subject descriptions not listed below.

08576 History and Philosophy of Scientific Methodology

Semester 1 - 5 units

This subject is designed to provide students with a critical perspective on science as a specific form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

164B3 Distinguished Scientist Series

Semester 1-5 units

This subject involves the study of a researcher's (or group of researchers') work in detail. The researcher(s) will be invited to the campus to participate in seminars to enable the students to discuss and explore issues with them directly. The content will be decided on the basis of the individual interests of the students.

164B4 Treatise

Semester 1 and/or 2-22 units

The treatise involves the preparation of a non-research work in a specific area of interest under supervision. It is a substantial scholarly work that is an exposition of a range of knowledge and is expected to include original argument substantiated by reference to acknowledged authorities. It does not usually involve data collection but may take the form of developing a clinical tool. The aim of this work is for students to integrate background material and provide cohesive, structured suggestions for physiotherapy development or practice. It is carried out in partial fulfilment of the master degree by coursework. Some hours are set aside for classes in scientific writing but the majority of the hours will be spent in consultation with the supervisor or in independent study.

⁽¹⁾ Appropriate courses are those deemed equivalent to the Bachelor Degree in Physiotherapy from Cumberland College of Health Sciences or The University of Sydney.

Table 13.7 Graduate Certificate of Applied Science (Physiotherapy)

Course

Code **Mode of Offer**

1648 *full-time mode -1 semester*

1649 *part-time mode - 2 semesters¹*

Course Structure

This award will be granted upon completion of 38 units² as outlined below.

a) a minimum of 16 units must be completed from List A (Physiotherapy subjects).

b) a minimum of 16 units must be completed from List B (Biomedical Sciences), C (Behavioural Sciences) and/or D (Other).

Note: Subjects in this course will be offered depending on sufficient enrolments. Physiotherapy subjects may be offered on alternate years.

			Total	Sem 1	Sem 2
List A	16479	Occupational Health I	5	5	-
	16480	Occupational Health II	5	-	5
	16481	Introduction to Ergonomics	5	5	-
	164E5	Optimising Functional Motor Performance	7	7	-
	16508	Scientific Investigation P	5	-	2
	16509	Medical Sciences	3		
	16512	Scientific Investigation II	5	5	-
	16520	Clinical Practice I	7	7	-
	16521	Clinical Practice II	7	-	7
	16522	Independent Study in Physiotherapy A	3#		
	16523	Independent Study in Physiotherapy B	5#		
	16524	Independent Study in Physiotherapy C	7#		
	Plus specialised subjects available in current year ⁴				
ListB	11429	Applied Physiology I	8	8	-
	11436	Applied Physiology II	6	-	6
	11455	Anatomy & Biomechanics A	4	4	-
	11456	Anatomy & Biomechanics B	3	-	3
	11461	Clinical Biomechanics	4	-	4
	11468	Mechanics of Human Movement	6	6	-
	11470	Functional Anatomy	6	-	6
	11480	Advanced Respiratory Physiology ⁵	4	4	-
	11482	Advanced Cardiac Physiology ⁵	4#		
	11481	Cardiopulmonary Anatomy ⁵	4	-	4
	Plus other available electives				
ListC	10458	Psychology	3	-	3
	10460	Psychosocial Aspects of Sport	5	-	5
	10472'	Motor Performance & Learning	5	5	-
	10547	Psychology of Child Development	5	5	-
	10548	Psychology of Adolescent Development	5	5	-
	Plus other available electives				

The semester in which the subject will be conducted may vary depending on enrolments

List D⁶ Electives (graduate subjects) may be taken in other Universities, other Faculties within The University of Sydney and within other Schools of the Faculty of Health Sciences. (See Appendix 1 - Electives)

Notes

¹ Part-time mode may take up to a maximum of 4 times full-time mode. Program choice must be made in consultation with Course Coordinator

² One unit is defined at 21 hours of student workload (including both contact and non-contact hours)

³ Graduate Diploma Students must enrol in Scientific Investigations I and II

⁴ See Schedule of Special Stream Electives below

⁵ May not be offered until 1999

⁶ Permission to enrol in these subjects will be dependent upon permission from the Course Coordinator and the Head of School/Department conducting the Subjects and minimum/maximum numbers for these subjects.

Graduate Certificate of Applied Science (Physiotherapy)

The principal aims of this course is to:

- * produce a body of graduates with academic and clinical skills to foster and develop the role of physiotherapy in multiple areas of physiotherapy practice, both specialised and general, and
- * encourage the development of a high standard of academic and clinical skill and promote a scientific approach to the evaluation of current therapeutic interventions.

Enquiries

Graduate Certificate/Diploma Course Coordinator: Veena O'Sullivan (ext. 6267)

Masters Course Coordinator: Martin Mackey (ext. 6374)

Admission Requirements

The Faculty may, on the recommendation of the Head of School concerned, admit to candidature for a graduate diploma or graduate certificate 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⁽¹⁾ 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.

Specialist Streams

If a student wishes to pursue a specialist stream of physiotherapy study, the following sections outline the proposed content and order of completion of specialised subjects in the sub-disciplines of Paediatric Physiotherapy, Cardiopulmonary Physiotherapy and Neurological Physiotherapy.

Full-time Mode

Cardiopulmonary Stream

		Total	Sem 1	Sem 2
	Behavioural Sciences elective (see List C)	5	5	
11429	Applied Physiology I	8	8	
11480	Advanced Respiratory Physiology	4	4	
164D7	Cardiopulmonary Physiotherapy A*	6	6	
164E3	Cardiopulmonary Physiotherapy B* (or approved elective)	5	5	-
16512	Scientific Investigation II	5	5	
	approved elective (see List A, B, C or D)	5	5	

- * Note: These subjects may be offered in distance mode

Neurology Stream

10472	Motor Performance & Learning	5	5	.
11429	Applied Physiology OR approved elective (see List A,B/ C or D)	8	8	
11468	Mechanics of Human Movement	6	6	
164E5	Optimising Functional Motor Performance	7	7	-
16520	Clinical Practice I	7	7	-
16512	Scientific Investigations II	5	5	-

- (b) who, in addition, meets any other requirements for admission to a particular program that has been prescribed by Faculty.

In the case of the Graduate Certificate of Applied Science (Physiotherapy) applicants should normally have completed at least two years recent clinical experience.

Selection

Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment

Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Progression

Progression from the graduate certificate to the graduate diploma and masters programs, regardless of which program the student originally enrolled in, will be dependent upon satisfactory performance in current subjects.

Course Outline

The Course Outline for the Graduate Certificate of Applied Science (Physiotherapy) is presented in Table 13.7.

Subject Descriptions

Refer to the Graduate Diploma of Applied Science (Physiotherapy)

Paediatric Stream

10478	Motor Performance & Learning	5	5	-
10547	Psychology of Child Development (or approved elective)	5	5	-
11468	Mechanics of Human Movement	6	6	<i>j</i> -
164D3	Paediatric Physiotherapy A	5	5	-
16508	Scientific Investigation II	5	5	-
16520	Clinical Practice I	7	7	-
	Approved Elective (see List A, B, C or D)	5	5	-

Schedule of Special Stream Electives

Stream electives will not be offered each year.

Subject to minimum enrolments the following special stream electives will be offered in the years indicated:

<i>1997 Neurology Stream</i>				
164E5	Optimising Functional Motor Performance	7	7	-
<i>1998 Paediatric Stream</i>				
164D3	Paediatric Physiotherapy A (or elective) approved Elective	5 #	5	-
<i>1999 Cardiopulmonary Stream</i>				
11480	Advanced Respiratory Physiology	4	4	
164D7	Cardiopulmonary Physiotherapy A*	6		6
164E3	Cardiopulmonary Physiotherapy B*	5	5	

Table 13.8 Graduate Diploma of Applied Science (Physiotherapy)

Course

Code	Mode of Offer
1646	Full-time - 1 semester
1647	Part-time - 2 semesters ¹

Course Structure

This award will be granted upon completion of 72 units as outlined below.

- a) a minimum of 32 units must be completed from List A (Physiotherapy subjects)²
 b) a minimum of 32 units must be completed from Lists B (Biomedical Sciences), C (Behavioural Sciences), and/or D (Other)

			Total	Sem 1	Sem 2
List A	16479	Occupational Health I	5	5	-
	16480	Occupational Health II	5	-	5
	16481	Introduction to Ergonomics	5	5	-
	164E5	Optimising Functional Motor Performance	7	7	-
	16508	Scientific Investigation I ³	5	-	5
	16509	Medical Sciences	3#		
	16512	Scientific Investigation II	5	5	-
	16520	Clinical Practice I	7	7	-
	16521	Clinical Practice II	7	-	7
	16522	Independent Study in Physiotherapy A	3#		
	16523	Independent Study in Physiotherapy B	5#		
	16524	Independent Study in Physiotherapy C	7#		
	16525	Clinical Biomechanics for Physiotherapists	7	-	7
Plus specialised subjects available in current year ⁴					

ListB	11429	Applied Physiology I	8	8	-
	11436	Applied Physiology II	6	-	6
	11455	Anatomy & Biomechanics A	4	4	-
	11456	Anatomy & Biomechanics B	3	-	3
	11461	Clinical Biomechanics	4	-	4
	11468	Mechanics of Human Movement	6	6	-
	11470	Functional Anatomy	6	-	6
	11480	Advanced Respiratory Physiology ⁵	4	4	-
	11481	Cardiopulmonary Anatomy ⁵	4	-	4
	11482	Advanced Cardiac Physiology ⁵	4#		
	Plus other available electives				
ListC	10458	Psychology	3	-	3
	10460	Psychosocial Aspects of Sport	5	-	5
	10478	Motor Performance & Learning	5	5	-
	10547	Psychology of Child Development	5	5	-
	10548	Psychology of Adolescent Development	5	5	-
	Plus other available electives				

The semester in which the subject will be conducted may vary depending on enrolments

List D⁶ Electives (graduate subjects) may be taken in other Universities, other Faculties within The University of Sydney and within other Schools of the Faculty of Health Sciences. (See Electives Appendix 1)

Notes

- ¹ Part-time mode may take up to a maximum of 4 times full-time mode. Program choice must be made in consultation with Course Coordinator
- ² Choose two clinical units
- ³ Graduate Diploma Students must enrol in Scientific Investigations I and II
- ⁴ See Schedule of Special Stream Electives below
- ⁵ May not be offered until 1999
- ⁶ Permission to enrol in these subjects will be dependent upon permission from the Course Coordinator and the Head of School/Department conducting the Subjects and maximum/maximum numbers for these subjects.

Graduate Diploma of Applied Science (Physiotherapy)

The principal aims of this course are to:

- * produce a body of graduates with academic and clinical skills to foster and develop the role of physiotherapy in multiple areas of physiotherapy practice, both specialised and general, and
- * encourage the development of a high standard of academic and clinical skill and promote a scientific approach to the evaluation of current therapeutic interventions.

The Graduate Diploma courses will also prepare physiotherapists for entry into the clinical specialisation process of the Australian College of Physiotherapists and the Masters degree will enable physiotherapists to apply for exemption in Stage 2 of the clinical specialisation process.

Enquiries

Graduate Diploma/Certificate Course Coordinator: Veena O'Sullivan (ext. 6267)

Masters Course Coordinator: Martin Mackey (ext. 6374)

Admission Requirements

The Faculty may, on the recommendation of the Head of School concerned, admit to candidature for a graduate diploma or graduate certificate 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⁽¹⁾ 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.

In the case of the Graduate Diploma of Applied Science (Physiotherapy) applicants should normally have completed at least two years recent clinical experience.

Selection

Selection, will take into account employment history, qualifications, continuing education and other professional development.

⁽¹⁾ Appropriate courses are those deemed equivalent to the Bachelor Degree in Physiotherapy from Cumberland College of Health Sciences or The University of Sydney.

Subject Enrolment

Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

graduate diploma or the masters program, will be dependent upon satisfactory performance in the graduate diploma subjects.

Progression

Progression from the graduate diploma to the masters program, whether the student originally enrolled in the

Course Outline

The Course Outline for the Graduate Diploma of Applied Science (Physiotherapy) is presented in Table 13.8.

Specialist Streams

If a student wishes to pursue a specialist stream of physiotherapy study, the following sections outline the proposed content and order of completion of specialised subjects in the sub-disciplines of Paediatric Physiotherapy, Cardiopulmonary Physiotherapy and Neurological Physiotherapy.

Full-time Mode

Cardiopulmonary Stream

		Total	Sem 1	Sem 2
	Behavioural Sciences elective (see List C)	5#		
	2 Approved elective ²	10#		
11429	Applied Physiology I	8	8	-
11480	Advanced Respiratory Physiology	4	4	-
11481	Cardiopulmonary Anatomy	4	-	4
11482	Advanced Cardiac Physiology	4#		
164D7	Cardiopulmonary Physiotherapy A*	6	6	-
164E3	Cardiopulmonary Physiotherapy B*	5	5	-
16508	Scientific Investigation I	5	-	5
16512	Scientific Investigation II	5	5	-
16518	Clinical Cardiopulmonary PTA	9#		
16520	Clinical Practice I	7	7	-

² Approved Electives in each semester may be chosen from the following examples:

08450	Occupational Health and Safety
08461	Epidemiology
08483	Introduction to Gerontology
11426	Biomechanics I
11427	Exercise and Rehabilitation I
11428	Motor Learning
11433	Health, Dysfunction and Aging
11441	Exercise and Rehabilitation II

For a fuller list see Appendix 1 Electives. In addition, subjects from other Faculties within the University may be considered suitable as electives, subject to the approval of the Course Coordinator. Students may be permitted to apply for credit transfer in such subjects.

* Note: These subjects may be offered in distance mode

Neurological Stream

10472	Motor Performance & Learning	5	5	.
11468	Mechanics of Human Movement	6	6	-
11429	Applied Physiology I or approved Elective (See List B)	8	8	-
16523	Independent Study in Physiotherapy B	5#		
164E4	Topics in Neurological Physiotherapy	7	-	7
164E5	Optimising Functional Motor Performance	7	7	-
164E9	Clinical Neurological Physiotherapy B	7	-	7
16508	Scientific Investigation I	5	-	5
16512	Scientific Investigation II	5	5	-
16519	Neurological Rehabilitation	5	-	5
	approved Elective (See List A, B, C or D)	5#		
16520	Clinical Practice I	7	7	-

The semester in which the subject will be conducted may vary depending on enrolments

Paediatric Stream

10472	Motor Performance & Learning	5	5	-
10547	Psychology of Child Development (or elective)	5	5	-
10548	Psychology of Adolescent Development (or elective)	5	-	5
11468	Mechanics of Human Movement	6	6	-
11480	Advanced Respiratory Physiology	4	-	4
16522	Independent Study in Physiotherapy	3	-	3
164D3	Paediatric Physiotherapy A (or elective)	6	6	-
164D5	Paediatric Physiotherapy B	7	-	7
16508	Scientific Investigation I	- 5	5	-
16512	Scientific Investigation II	5	-	5
16516	Clinical Paediatric Physiotherapy B	9		9
	Approved Elective (see List A, B, C or D)	5	-	5
16520	Clinical Practice 1	7	7	-

Note

Paediatric Physiotherapy B involves two types of experience; visits to special units on one half day of each semester week, and one ten day clinical placement in a hospital, school or specialised clinic during the inter-semester break.

Schedule of Special Stream Electives

Stream electives will not be offered each year.

Subject to minimum enrolments the following special stream electives will be offered in the years indicated:

1997

164E4	Topics in Neurological Physiotherapy	7		7
164E5	Optimising Functional Motor Performance	7	7	
164E6	Clinical Neurological Physiotherapy A Elective	7 5#		7
16519	Neurological Rehabilitation	5		5
16520	Clinical Practice I	7	7	

1998

11480	Advanced Respiratory Physiology /or	4	4	
164D3	Paediatric Physiotherapy A (or elective)	6	6	
16516	Clinical Paediatric Physiotherapy B Approved elective	9 #		9
16515	Clinical Paediatric Physiotherapy A	7	7	

1999

11480	Advanced Respiratory Physiology	4	4	
11481	Cardiopulmonary Anatomy	4		4
11482	Advanced Cardiovascular Physiology	4		4
164D7	Cardiopulmonary Physiotherapy A*	6	6	
164E3	Cardiopulmonary physiotherapy B*	5	5	
16518	Clinical Cardiopulmonary Physiotherapy A Elective B (1 or 2 approved subjects)	9# 10#		

* Note: These subjects may be offered in distance mode

The semester in which the subject will be conducted may vary depending on enrolments.

Subject Descriptions

10458 Psychology

Semester 2 - 3 Units

The aim of this subject is to further develop the students' understanding of psychological aspects of pain and loss of function, and psychological approaches to the management of stress, illness and pain.

10460 Psychosocial Aspects of Sport

Semester 2 - 5 Units

The first part of this unit considers psychological factors in sports performance. Topics covered include: managing

motivation, anxiety and aggression; arousal-performance relationships; psychosocial characteristics of peak performance; personality and sport performance; relaxation and energising techniques; cognitive techniques; attention control-training; goal-setting; leadership; team cohesion; athlete staleness and burnout; stress, injury and psychological rehabilitation.

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

10478 Motor Performance and Learning

Semester 1 - 5 Units

This subject considers principles underlying skilled motor performance:- sensory contributions to performance, processing information and making decisions, motor production and motor programs. It then looks at principles underlying skilled learning:-preparation, practice strategies and feedback. Activities studied include walking, reaching and grasping, speaking, singing and smiling, eye-hand coordination and hitting approaching balls. Ecological and motor program approaches to motor learning are considered.

10547 Psychology of Child Development

Semester 1-5 Units

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

10548 Psychology of Adolescent Development

Semester 1 - 5 Units

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

11429 Applied Physiology I

Semester 1 - 8 Units

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

11436 Applied Physiology II

Semester 2 - 6 Units

Pre-requisite Applied Physiology I (11429)

The subject will build upon the principles and information provided in Applied Physiology I, and will focus upon the regulation of the exercise response. While the changes that

occur during exercise are important, this subject will aim primarily at providing the student with the necessary understanding of the mechanisms behind these changes. Particular attention will be given to cardiovascular control, adaptation to dynamic and static exercise, metabolic regulation, respiratory control and thermoregulation. It is expected that while the content of this subject will remain fixed, the level and emphasis of each section will vary according to the current staff background and research interest.

11455 Anatomy and Biomechanics A

Semester 1 - 4 Units

This subject will further the students' understanding of the anatomy and biomechanics of the thoracic and lumbar vertebral column and the lower limb. The focus is on critical evaluation of existing manipulative physiotherapy procedures and on recent scientific developments of relevance to disorders of the musculoskeletal system.

11456 Anatomy and Biomechanics B

Semester 2 - 3 Units

This subject will further the students' understanding of the anatomy and biomechanics of the thoracic and cervical vertebral column and the lower limb. The focus is on critical evaluation of existing manipulative physiotherapy procedures and on recent scientific developments of relevance to disorders of the upper body.

11461 Clinical Biomechanics

Semester 2 - 4 Units

Pre-requisite Mechanics of Human Movement (10468)

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

11468 Mechanics of Human Movement

Semester 1 - 4 Units

This subject will provide biomechanical concepts and skills required for the analysis of human movement. Principles of kinematics, kinetics and electromyography in dynamic muscle movements, and mechanical energy distribution will be studied with reference to selected motor activities. Laboratory sessions will be used to provide illustrations of the above principles and to give students experience with biomechanical laboratory techniques. This subject is only open to graduates who have studied biomechanics previously.

11480 Advanced Respiratory Physiology

Semester 1 - 4 Units

This subject will provide the students with in-depth knowledge in respiratory physiology in adults and children and alterations caused by disease. An aspect of this course will be practical experience in physiological measurements of the respiratory system.

11481 Cardiopulmonary Anatomy**Semester 2 - 4 Units**

This subject aims to investigate the relationship between the anatomical structure and functions of both the respiratory and cardiovascular systems. The subject contains coursework covering the musculoskeletal anatomy of the head, neck, trunk, shoulder girdle and the histology and gross anatomy of the respiratory and cardiovascular systems. The subject emphasises the relationship between structure, function and dysfunction and is taught from a theoretical and practical approach in the anatomy laboratory, and by self-directed learning.

11482 Advanced Cardiovascular Physiology**Semesters 1 and 2 - Total 4 Units**

This subject will provide the student with knowledge of alterations in cardiovascular physiology caused by disease. An aspect of this course will be practical experience in physiological measurements of the respiratory system. The subject will also include the interpretation of physiological measurements and the implications of these for exercise prescription. This subject will not be offered until 1999.

164D3 Paediatric Physiotherapy A**Semester 1-6 Units**

This subject is designed to provide the student with an understanding of physiotherapy in the care of infants utilising recent relevant research findings. Students will student the analysis of infant dysfunction and the effect of environment. Subject content includes management of respiratory, musculoskeletal and nervous system disorders in neonates, infants. In addition, the subject includes management of applied biomechanics and human ecology as they relate to clinical practice in paediatrics.

164D5 Paediatric Physiotherapy B**Semester 2 - 7 Units**

This subject is designed to provide the student with an understanding of physiotherapy in the care of children and adolescents utilising recent relevant research findings. Subject content includes management of respiratory, musculoskeletal and nervous system disorders in children and adolescents plus care of children with special needs. Health promotion and well-being of children is also considered within the broader concepts of the community and health care systems. The study of applied biomechanics and human ecology

164D7 Cardiopulmonary Physiotherapy A**Semester 2 - 6 Units**

This subject will require the student to thoroughly investigate various cardiopulmonary interventions and their application to clinical practice. Each student will present a seminar based on the theoretical investigation of a specific cardiopulmonary intervention.

164E3 Cardiopulmonary Physiotherapy B**Semester 2 - 5 Units**

In this subject the knowledge gained in Applied Physiology I, Advanced Respiratory Physiology and/or Advanced Cardiac Physiology will be applied to specific case studies with the aim of forming a diagnosis for each case and identifying clinical problems and designing appropriate clinical intervention.

164E4 Topics in Neurological Physiotherapy**Semester 2 - 7 Units**

This subject covers a wide range of neurological topics specifically related to the dyscontrol characteristics associated with neurological lesions and the resultant adaptations of both motor and psychological behaviour. Students will also study the historical developments in neurological physiotherapy.

164E6 Clinical Neurological Physiotherapy A**Semester 1 - 7 Units**

This subject involves both on- and off-campus clinical hours. It provides students with the opportunity to apply knowledge gained during the course within a clinical environment. Clinical placement will depend upon identified needs of the students and the availability of appropriate clinical areas.

164E5 Optimising Functional Motor Performance**Semester 1-7 Units**

In this subject, students examine normal motor behaviour in order to develop skill in analysing motor performance, planning and implementing motor training and preventing disabling adaptive processes.

Note: This subject involves both clinical and academic experiences.

16479 Occupational Health I**Semester 1 - 28 hours**

This subject looks at the discipline of occupational health within a social system. After considering significant steps in the evolution of the discipline in the western world, it considers the social, political and economic issues which have historically shaped the development of occupational health legislation and practice.

16480 Occupational Health II**Semester 2-28 hours**

This subject aims to give the student specific knowledge and skills to apply in occupational health practice and the ability to identify which occupational health professional has the expertise to deal with an identified risk. The subject will encompass both academic and practical components.

16481 Introduction To Ergonomics**Semester 1-28 hours**

This subject aims to give the student an overview of ergonomics and explores the inter-relationship and relevance of a variety of areas with respect to ergonomics in the workplace. Content includes a review of work physiology, biomechanics and kinesiology, physical and psychological factors influencing the worker, anthropometry and system issues.

16508 Scientific Investigation I**Semester 2 - 5 Units**

This subject develops students' skills in analysis of data. It examines common statistical tests with the aim of enabling students to understand research papers as well as enabling them to choose appropriate statistical methods of analysing data. It also examines issues relating to measurement including reliability and validity. Students will have the opportunity to apply statistical tests to small data sets of measurement procedures that they will collect, or that have been previously collected.

16509 Medical Sciences*Semesters 1 and 2 - Total 3 units*

This subject is presented in lecture/seminar format and the content areas may cover Neurology, Oncology, Orthopaedics, Radiology, Rheumatology and Vascular Disorders, the student gains further knowledge of disease processes and symptomatology, relevant diagnostic procedures and trends in the management and research in the areas of medicine studied.

16512 Scientific Investigation II*Semester 1 - 5 Units*

This subject develops students' skills in writing scientifically. The content for this subject covers developing research questions and writing them up as a grant submission, the issues of developing research questions by setting the inquiry in the context of the state of the profession, the state of scientific knowledge of the area and an evaluation of existing paradigms will be examined. Students' learning will involve preparing an annotated bibliography and writing a proposal as if applying for funding from the Physiotherapy Research Foundation.

16516 Clinical Paediatric Physiotherapy A*Semester 2-9 Units*

This subject will provide the student with the opportunity to apply the principles and ideas in Paediatric Physiotherapy A & B within a clinical environment. Students will be expected to apply problem solving skills in a clinical situation. 30 hours will be off-campus during the inter-semester break. Most of the remaining 42 hours will be off-campus with students returning to campus to discuss clinical issues.

16518 Clinical Cardiopulmonary Physiotherapy A*Semesters 1 and 2 - Total 9 Units*

This subject will provide 2 weeks access to clinical experience in specialist areas enabling the student to apply knowledge gained during the course and develop clinical expertise. Clinical placement will be dependent upon the identified needs of the student and the availability of appropriate clinical areas. In addition, students will observe and report on two clinical investigations chosen from a prescribed list.

16519 Neurological Rehabilitation*Semester 2 - 5 Units*

This subject provides the forum for students to examine the process of rehabilitation, the environment in which it takes place) factors which may influence outcome and the promotion of physical conditioning.

16520 Clinical Practice I*Semester 1 - 7 Units*

This subject involves both on- and off-campus clinical hours. It provides students with the opportunity to apply knowledge gained during the course within a clinical environment. Clinical placement will depend upon identified needs of the students and the availability of appropriate clinical areas.

16521 Clinical Practice II*Semester 2- 7 Units*

This subject involves both on-and off-campus clinical hours. It provides students with the opportunity to apply knowledge gained during the course within a clinical environment. Clinical placement will depend upon identified needs of the students and the availability of appropriate clinical areas.

16525 Clinical Biomechanics For Physiotherapists*Semester 2 - 7 Units*

This subject focuses on promoting an understanding of biomechanical principles that govern effectiveness of skilled performance. The argument that biomechanics and biomechanical testing procedures improve performance in individuals with movement dysfunction and in prevention of injury is supported with clinical examples. The subject provides the opportunity for development of skill in data collection using biomechanical instrumentation.

16522 Independent Study in Physiotherapy A*Semester 1 or 2-3 Units*

In this elective subject individual participants can pursue a specific area of study related to the development of knowledge and skills in an area of professional relevance. The participant will complete a personal learning contract under the supervision of a tutor.

16523 Independent Study in Physiotherapy B*Semester 1 or 2-5 Units*

In this elective subject individual participants can pursue a specific area of study related to the development of knowledge and skills in an area of professional relevance. The participant will complete a personal learning contract under the supervision of a tutor.

16524 Independent Study in Physiotherapy C*Semester 1 or 2-7 Units*

In this elective subject individual participants can pursue a specific area of study related to the development of knowledge and skills in an area of professional relevance. The participant will complete a personal learning contract under the supervision of a tutor. will continue in this subject.

Additional subject descriptions

Refer to Section A-1 of the 1995 Handbook for descriptions of Research electives. Refer to Chapter 8 of the 1996 Handbook for descriptions of School of Community Health graduate electives. Refer to Chapter 9 of the 1996 Handbook for descriptions of School of Health Information Management graduate electives. Refer to Chapter 5 of the 1996 Handbook for descriptions of Department of Behavioural Sciences graduate electives. Refer to Chapter 6 of the 1996 Handbook for descriptions of Department of Biomedical Sciences graduate electives.

Table 13.9 Master of Applied Science (Physiotherapy) (Coursework)

Course

Code Mode of Offer

1644 *full-time mode - 3 semester*

1645 *part-time mode - 6 semesters¹*

Course Structure

This award will be granted upon completion of 104 units as outlined below.

- a) 32 units must be completed from List A (Physiotherapy subjects)²
- b) 32 units must be completed from Lists B (Biomedical Sciences), C (Behavioural Sciences), and/or D (Other)
- c) 32 units must be completed from List E (Master subjects). These will be taken after completion of the first 72 units.

			Total	Sem 1	Sem 2
List A	16479	Occupational Health I	5	5	-
	16480	Occupational Health II	5	-	5
	16481	Introduction to Ergonomics	5	5	-
	164E5	Optimising Functional Motor Performance	7	7	-
	16508	Scientific Investigation ³	5	-	5
	16509	Medical Sciences	3#		
	16512	Scientific Investigation II	5	5	-
	16520	Clinical Practice I	7	7	-
	16521	Clinical Practice II	7	-	7
	16522	Independent Study in Physiotherapy A	3#		
	16523	Independent Study in Physiotherapy B	5#		
	16524	Independent Study in Physiotherapy C	7#		
	16525	Clinical Biomechanics for Physiotherapists	7	-	7
	Plus specialised subjects available in current year ⁴				
ListB	11.429	Applied Physiology I	8	8	-
	11436	Applied Physiology II	6	-	6
	11455	Anatomy & Biomechanics A	4	4	-
	11456	Anatomy & Biomechanics B	3	-	3
	11461	Clinical Biomechanics	4	-	4
	11468	Mechanics of Human Movement	6	6	-
	11470	Functional Anatomy	6	-	6
	11480	Advanced Respiratory Physiology ⁵	4	4	-
	11481	Cardiopulmonary Anatomy ⁵	4	-	4
	11482	Advanced Cardiac Physiology ⁵	4#		
	Plus other available electives				
ListC	10458	Psychology	3	-	3
	10460	Psychosocial Aspects of Sport	5	-	5
	10478	Motor Performance & Learning	5	5	-
	10547	Psychology of Child Development	5	5	-
	10548	Psychology of Adolescent Development	5	5	-
	Plus other available electives				
# The semester in which the subject will be conducted may vary depending on enrolments					
List D ⁶	Electives (graduate subjects) may be taken in other Universities, other Faculties within The University of Sydney and within other Schools of the Faculty of Health Sciences. (See Appendix 1 Electives)				
ListE	08576	History and Philosophy of Scientific Methodology			
	164B3	Distinguished Scientists Series			
	164B4	Treatise			

Notes

Subjects in this course will be offered depending on sufficient enrolments. Physiotherapy subjects may be offered in alternate years.

- ¹ Part-time mode may take up to a maximum of 4 times full-time mode. Program choice must be made in consultation with Course Coordinator
- ² Must make two clinical units .
- ³ Graduate Diploma Students must enrol in Scientific Investigations I and II
- ⁴ See Schedule of Special Stream Electives below
- ⁵ May not be offered until 1999
- ⁶ Permission to enrol in these subjects will be dependent upon permission from the Course Coordinator and the Head

Master of Applied Science (Physiotherapy) by Coursework

Enquiries

Masters Course Coordinator: Martin Mackey (ext 6374)
Graduate Diploma Course Coordinator: Veena O'Sullivan (ext. 6267)

Admission Requirements

The Faculty may, on the recommendation of the Head 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⁽¹⁾ 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.

In the case of the Master of Applied Science (Physiotherapy) applicants should normally have completed at least two years recent clinical experience.

Selection

Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment

Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Credit Transfer

Applicants holding an approved graduate diploma may apply for Credit Transfer in the Masters program. Decisions will be made on an individual basis.

Progression

Progression from the graduate diploma to the masters stage / program, whether the student originally enrolled in the graduate diploma or the masters program, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline

The Course Outline for the Master of Applied Science (Physiotherapy) is presented in Table 13.9.

Subject Descriptions

Refer to the Graduate Diploma of Applied Science (Physiotherapy) for Subject Descriptions not listed below.

08576 History and Philosophy of Scientific Methodology

Semester 1-5 units

This subject is designed to provide students with a critical perspective on science as a specific form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

164B3 Distinguished Scientist Series

Semester 1 - 5 units

This subject involves the study of a researcher's (or group of researchers') work in detail. The researcher(s) will be invited to the campus to participate in seminars to enable the students to discuss and explore issues with them directly. The content will be decided on the basis of the individual interests of the students.

164B4 Treatise

Semester 1 and 2 - 22 units

The treatise involves the preparation of a non-research work in a specific area of interest under supervision. It is a substantial scholarly work that is an exposition of a range of knowledge and is expected to include original argument substantiated by reference to acknowledged authorities. It does not usually involve data collection but may take the form of developing a clinical tool. The aim of this work is for students to integrate background material and provide cohesive, structured suggestions for physiotherapy development or practice. It is carried out in partial fulfilment of the master degree by coursework. A designated number of hours are set aside for Treatise Workshops for classes in scientific writing but the majority of the hours will be spent in consultation with the supervisor or in independent study.

⁽¹⁾ Appropriate courses are those deemed equivalent to the Bachelor Degree in Physiotherapy from Cumberland College of Health Sciences or The University of Sydney.

Table 13.10 Master of Applied Science (Physiotherapy) (by research)

Course

Code Mode of Offer

1603 *Part-time Special Program (for Masters Qualifying Students)*

1643 *Full-time Special Program (for Masters Qualifying Students)*

1624 *Pull-time, minimum 2 years*

1625 *Part-time, minimum 3 years*

Full-time mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
16501	Thesis Workshop A	16	16	-
16502	Thesis Workshop B	12	-	12
	Research Elective A ¹	8	8	-
	Research Elective B ¹	8	-	8
16526	Masters Research Thesis Preparation	-	-	-
<i>Year 2 and subsequent years</i>				
16503	Masters Research Thesis	-	-	-

Part-time mode

Year 1

16501	Thesis Workshop A	16	8	8
	Research Elective A ¹	8	8	-
	Research Elective B ¹	8	-	8

Year 2

16502	Thesis Workshop B	12	8	4
16526	Masters Research Thesis Preparation	-	-	-

Year 3 and subsequent years

16503	Masters Research Thesis	-	-	-
-------	-------------------------	---	---	---

Note

¹ Elective Research Subjects: Students select two of the Research Electives listed in Appendix 1 subjects (subject to sufficient student numbers) in consultation with their supervisors.

**Master Of Applied Science (Physiotherapy)
(By Research)**

The Master of Applied Science (Physiotherapy) course is a research degree. The course is designed to provide opportunity for research and scholarship in specific areas of physiotherapy.

Enquiries

Course Coordinator: Sharon Kilbreath (ext. 6272)

Admission Requirements

The Faculty may, on the recommendation of the Head 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 (1) 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.

Time Limits

The standard course comprises enabling research subjects, thesis workshop subjects and research thesis. Students who enter the course with adequate research preparation may be exempt from completing some or all of the enabling subjects, ie. Research Electives and Thesis Workshop A (16501). Usually these students would have completed an approved bachelor degree program at honours level I or II. The minimum length of the course for such students is 1 year full time or 2 years part time.

Course Outline

The Course Outline for the Master of Applied Science (Physiotherapy) is presented in Table 13.10.

Subject Descriptions

16900 Special Program for Qualifying Students

The Special Programs are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

16501 Thesis Workshop A

Total- 16 units

This subject is designed to orient students to study at Masters level and to give a formal structure to support the development of a research proposal. It also provides a forum in which to exchange and test ideas pertaining to the development of the research proposal.

16502 Thesis Workshop B

Total- 63 hours

This subject continues to give support to students who are setting up and running a research project. It provides opportunities for students to report on work in progress, defend developments and procedures to be used in the project and supports the production of specific sections, of the research thesis.

16503 Masters Research Thesis

The successful submission of a research thesis is the ultimate objective of the course. This process will necessitate a collaborative endeavour between the student and the supervisor and will involve the student's advisory committee.

16505 Research Elective Independent Study

Total-8 units

(For Physiotherapy Research students only)

This subject will function as an independent study program. As with other research elective subjects, it allows students to pursue an area of study related to the development of knowledge and skills in a specific area of research methods in preparation for their thesis.

Research Electives

Semesters 1 and 2-16 units

For most elective subject descriptions, see Appendix 1.

Clinical Education

Clinical education provides students with the opportunity to complement the knowledge and skills acquired in the academic segments of the 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 2nd 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.

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.

1996 Clinical Practice Dates

Pass and Honours Program

Year 2

Inter-semester Break and Semester 2: Group A July 1-July 26, Group B July 29-August 23

Semester 2: Group A August 26-September 20, Group B September 23-October 18

Year 3

Group B July 1-August 2, Group A August 5-September 6
Pass Program - only

Year 4

Pre-semester 1: Groups A and B February 12 - March 15

Semester 1: Group A March 18-April 19 Group B April 29-May 31

Semester 2: Groups A and B October 7-November 8

Honours Program

Year 4

Pre-semester 1 and Semester 1: January 15-February 9, February 12-March 15

Semester 2: October 7-November 8

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 culotte 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 purchase of your uniforms until this time.

Plain navy cardigans and navy pullovers may be purchased at most large department stores.

14 Singapore Conversion Courses

The chapter provides detailed course proposals for bachelor degrees in nursing, occupational therapy, physiotherapy and radiography.

The off-shore (Singapore-based) program are conducted by the Faculty of Health Sciences in conjunction with the Singapore Institute of Management. This arose from a successful tender by the Faculty to conduct these courses in Singapore for local residents. Graduates from the program will graduate with a University of Sydney award.

The Singapore government, through the Ministry of Health, wishes conversion course options to be available for nurses, occupational therapists, radiographers, radiation therapists and physiotherapists who have trained overseas.

The course consists of 420 hours of theoretical content and 60 hours of clinical field work (unsupervised). It is run in part-time mode over 2 years. The course is designed in modular format, comprising 14 modules/units of 30 or 45

hours of student contact. Each module/unit is timetabled over 3 weeks, and operates independently of other modules/units.

The ongoing responsibility for managing the course will lie with the Faculty of Health Sciences. In particular the Director, Special Projects and the Dean's Office will coordinate interactions with the Singapore Institute of Management, the Singapore Ministry of Health, and the Faculty of Nursing.

The role of the Singapore Institute of Management is to provide a vehicle for implementing the courses.

In 1996, the Faculty of Health Sciences will also offer 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)

Table 14.1 Bachelor of Health Science (Nursing)

Course

Code Mode of Offer

2001 Modular, Part-time 2 years (April 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		

Table 14.2 Bachelor of Health Science (Nursing)

Course

Code Mode of Offer

2011 *Modular, Part-time 2 years (September 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>		<i>240</i>		
<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>		<i>240</i>		

Bachelor of Health Science (Nursing)

Admission requirements

EITHER [(a) or (b) or (c)] and [(d) and (e)]

- a) a Diploma in Nursing from Nanyang Polytechnic, Singapore;
OR
- b) a Diploma in Nursing from an approved institution;
OR
- c) a Certificate in Nursing from the Singapore School of Nursing, or its equivalent;
AND
- d) a minimum of 3 years nursing clinical practice after graduation;
AND
- e) employment as a registered nurse in a working environment appropriate to their profession and acceptable to the University.

Subject Descriptions

20401/20424 The Nature of Health Care Delivery

Hours-30

This module introduces the student to the social, cultural, political, economic dimensions of healthcare. The unit 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 will be presented to provide an underpinning for the examination of health care issues.

20403/20426 Psychology of Teaching and Learning

Hours-30

This unit aims to provide an understanding of the processes of teaching and learning and the relationship between them. It also provides experiences in applying that understanding to the teaching of students, clients, health professionals and others. The unit explores the concepts of teaching and learning; provide an overview of learning theories and types of learning; consider the significance of motivation and reinforcement in the process of learning; and explore theories of learning in the cognitive, affective and psychomotor domain and consider their implication for teaching.

20404/20427 Research Methods 1

Hours - 30

This module/unit examines the key approaches, methods and designs by which research is undertaken in the health professions. It incorporates an outline of the research process which will guide the students through a simple descriptive study. Students will develop basic skills related to data collecting instruments, data collection, data analysis and interpretation of findings. Particular issues relating to evaluation and epidemiological research as well as observational, clinical and survey research are included.

20405/20429 The Legal Perspectives

Hours - 30

This module develops the students' awareness of law as it relates to health care and management. Issues relevant to the Singapore legal system will be highlighted.

20406/20428 Patient/Client Education

Hours - 45

This module/unit develops the knowledge from the previous unit and provide students with the opportunity to develop teaching skills. This module/unit contains field work (15 hours).

20407/20430 Research Methods 2

Hours - 45

This module/unit extends the skills acquired in Module/unit 4 to inferential research procedures and methods appropriate to the health professions. Topics include probability, significance, confidence intervals, inferential statistics, discriminant analysis, multiple group designs, and bio-statistics. Part of this module/unit includes the application of the skills acquired in a clinical context.

20408/20431 Pathophysiology

Hours - 30

This module/unit 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/unit examines the structural and procedural aspects of organisations, using a sociological framework. There is an emphasis on the hospital as the major workplace of health care professionals, especially nurses, and addresses pertinent concerns and issues.

20410/20436 Financial Management in the health services.

Hours - 45

This module introduces the students to the financial management of hospitals and health services institutions. Topics covered include basic accounting procedures, financial and budgetary process, types of budgets, and auditing procedures. In addition the module covers hospital accounting systems and methods of funding, hospital cost analysis and control, and clinical costing systems. This module has 15 non-teaching hours to enable practical application of the theory taught.

20411/20435 Sociology of Client/Practitioner Relationships.

Hours-30

This module/unit examines the practitioner/patient relationship within the generic professional-client model. Different sociological paradigms are applied to analyse structure, conflict, interaction, affect and social skill in the practitioner-patient relationship.

20412/20432 Health Assessment

Hours - 30

This module/unit provides students with an understanding of the principles of health assessment and the skills necessary to undertake health history and physical examination.

20413/20434 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/unit provides students with the opportunity to examine various aspects of nursing practice. Various nursing practices will be examined for their relevance and appropriateness, using knowledge from a variety of sources. This module/unit has 15 non teaching hours to enable practical application of the theory taught.

On-Shore (Sydney-based)

Table 14.3 Bachelor of Health Science (Medical Radiation Technology)

Course		Total	Sem 1	Sem 2
Code	Mode of Offer			
1830 [D]	Pass Degree - One year Full-time			
1831 [R]	Pass Degree - One year Full-time			
10394	Behavioural Science III	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

Entry will be restricted to diplomates who have completed the 'A level entry' Diploma in Radiography from Nanyang Polytechnic in Singapore. This pass level conversion course is designed to complement the content of the current Diploma in Radiography offered by the School of Health Sciences, Nanyang Polytechnic, Singapore.

Course Outline

The program outline for the one year Bachelor of Health Sciences (Medical Radiation Technology) conversion course is presented in Table 14.3.

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 meninges, pediculated radiographs, and 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 the student to the radiographic manifestations of selected disease processes, congenital disorders and malformations in the alimentary tract, hepatobiliary, genitourinary and central nervous systems.

18333 Contrast Media*Semester 1 -14 hours**Semester 2-10 hours*

This subject provides the student 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 stereotactic 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 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.

18336 Field Project*Semester 1 -14 hours**Semester 2 -154 hours*

This subject comprises a number of modules on clinically related subjects such as quality assurance, department design and safety issues, computer communication and management.

Table 14.4 Bachelor of Health Science (Occupational Therapy) Course

<i>Course Code</i>		<i>Mode of Offer</i>	Total	Sem 1	Sem 2
1532		<i>Full-time, 1 year</i>			
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
15463	Evaluation of Occupational Therapy Program		70	14	56
	Elective subject		84	42	42
154A2	Fieldwork Education		227	-	227
<i>Stage Total</i>			619	210	409

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 emphasises on 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 14.4.

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 area 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 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.

15463 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.

Elective Study

Semester 1 -42 hours

Semester 2 -42 hours

This subject provide students 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 14.5 Bachelor of Health Science (Physiotherapy)

Course

Code Mode of Offer

1650 Full-time, 1 year

A) For students commencing enrolment in 1996

ACOS Study Preparation Program - 5 weeks pre-semester

*Weeks 1-8 only (Audit program - Attendance strongly recommended)**

103B3	Research Methods and Statistics II	-
-------	------------------------------------	---

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 in	
16330	Cardiopulmonary Physiotherapy II	
16331	Musculoskeletal Physiotherapy III	

Standard Year 4 Program(1996)(formal enrolment)

10457	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 EIC**	190	-	190
164G0	Cardiopulmonary Physiotherapy III	24	14	10
Stage Total		676	309	367

* 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)

This program will commence in 1996. The conversion program will be 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.

Program Outline

The program outline for the one year Bachelor of Health Science (Physiotherapy) conversion course is presented in Table 14.5.

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 program 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 skills 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. Each student will investigate an area of physiotherapy of their choice.

164F8 Clinical Education NIB
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 MC
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 course aims to further develop the students' understanding of cardiopulmonary dysfunction, the scientific basis for therapeutic intervention and the process of clinical decision making. Areas that will be addressed include the management of individuals with one or more of the following disorders - chronic/acute airflow limitation, cardiovascular disease, respiratory muscle dysfunction, cardiac and lung transplantation. There is an emphasis throughout the subject on self-directed learning and skills in presenting justification for clinical intervention.

15 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 paramount. The client's dignity and rights to privacy and confidentiality must be respected at all times. Students who do not comply with the rules governing ethical practice may be removed from the clinical placement.

During clinical affiliations, the student is expected to conform with the normal professional conduct required by the host institution. In some institutions, the wearing of uniforms and identification badges is demanded, while in other facilities a less formal attire is acceptable. Students should consult the section of the Handbook, relating to clinical education subject for their particular course, for information relating to uniforms and name badges.

There are a number of rules and conditions applying to students regarding the amount of clinical education, the timing of it, the selection of sites, and types of experiences required. These rules have implications for progression in the course and acceptance into the relevant profession after graduation.

Students should consult the relevant Handbooks of their Schools for such rules and details of the Clinical Education/Fieldwork/ Professional Experience 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 third party liability policy which extends to protect students from claims made against them arising out of any negligent act, error, or omission during such fieldwork. The territorial limit for this is worldwide with the exclusion of U.S.A. and Canada. The Properties Services Division should be advised if fieldwork is to be undertaken in U.S.A. or Canada.

Other Relevant Policies

The University has a personal accident policy covering postgraduate students against accidental bodily injury, providing death and capital benefits, as well as a weekly benefit whilst disabled. The Students' Representative Council of the University maintains a similar policy for undergraduates.

Information on Communicable Diseases for Students and Clinical Teachers

Communicable diseases are of concern to all those working in clinical settings. Whilst an understanding of the transmission of diseases such as AIDS, Hepatitis and Tuberculosis is particularly important, all students and clinical teachers must acquaint themselves with information about the potential dangers of all communicable diseases likely to be experienced in Australia. They should be aware of sources of infectious micro-organisms, their modes of transmission and the ways of reducing the risk of infection to self, patients and others.

Detailed information on this subject is contained in the documents such as "Infectious Disease and You" published by the Faculty. A copy may be obtained from the 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 (646-6250).

School of Communication Disorders

The School of Communication Disorders wishes to acknowledge the contributions to the clinical education program December 1994 - December 1995 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

Annandale 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 1995 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, SA
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
HoxtonPark 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, Carroona, 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
 Riverina 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
 ATASIC, 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, Wooloongabba, 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, Erskinvill, 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; Hornsby Drug &
Alcohol Service; Langton Clinic Drug and Alcohol Service;
Manly Phoenix Unit; Ryde Community Health Centre;
Sydney Sexual Health Centre; Wahroonga Mental Health
Rehabilitation Service; Windana Mental Health, Manly;
Wistaria House Drug and Alcohol Program; School of
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
Bankstown
Blacktown District
Campbelltown
Canterbury
Cumberland, Parramatta
Children's Hospital, Camperdown
Fairfield District
Gladesville/Macquarie
Hawksbury, Windsor
Hornsby Ku-Ring-Gai Hospital & Area Health Service
Institute of Oncology and Radiotherapy, Prince of Wales Hospital
Lidcombe
Liverpool
Manly Hospital & Community Health Services
MonaVale
MtDruitt
Nepean Hospital Penrith
Prince Henry, Little Bay
Prince of Wales, Randwick
Royal Hospital for Women, Paddington
Royal North Shore, St Leonards
Royal Prince Alfred, Camperdown
Royal Ryde Rehabilitation
Royal South Sydney
Rozelle, Leichhardt
Ryde Hospital & Ryde-Hunters Hill Area Health Service
St George, Kogarah
St Margaret's, Darlinghurst
St Vincent's, Darlinghurst
Sutherland Hospital Caringbah
Sydney
Westmead
Repatriation General Hospital, Concord
Lady Davidson, Turrumura
Prince of Wales Children's, Randwick
St. Joseph's, Auburn
St. John of God, Burwood
Sydney Eye, Sydney
Masonic, Ashfield
Rachel Forster, Redfern

Country/Interstate

Bathurst District
Central Coast
Coffs Harbour and District Hospital
Dubbo Base
Forbes District
John Hunter, Newcastle
Lithgow
Lismore Base
Manning Base, Taree
Orange Base
Parkes

Queen Elizabeth, Woodville, SA
Woden Valley, Canberra
Royal Darwin
Royal Newcastle
Wallsend District
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

HC A Baulkham Hills Private
St Vincent's Private, Darlinghurst
Sydney Adventist, Wahroonga
The Poplars, Epping
Mater, Crowns Nest
Newcastle Mater, Warata
Hurstville Community Cooperative, Hurstville
Strathfield Private
St. Margaret's Private, Darlinghurst
The Scottish Hospital, Paddington

Commonwealth/State Government Departments and Agencies

Central Coast Area Health Service, Gosford
Central Sydney Health Service, Camperdown
Central West Regional Office, Peak Hill
Cumberland Developmental Disability Service
Department of Health (NSW), Health Statistics Unit
Hunter Area Health Service, Newcastle
North Coast Regional Office, Lismore
Northern Sydney Area Health Service, St Leonards
Orana & Far West Regional Office, Dubbo
South East Regional Office, Goulburn
South West Regional Office, Wagga
Central Cancer Registry
Department of Defence, Canberra
Department of Community & Health Services, Hobart
National Coding Centre, Lidcombe

Other Organisations

Deloitte, Touche, Tohmatsu
Pacific Power
NHMRC Clinical Trials Centre, The University of Sydney
NRMA Insurance
Vetinary 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

Public Hospitals - Metropolitan

Auburn District Hospital
Bankstown District Hospital
Blacktown District Hospital
Camden Hospital
Campbelltown Hospital
Canterbury Hospital
Concord Hospital
Fairfield District Hospital
Hawkesbury Hospital
Hornsby Ku-Ring-Gai Hospital & Area Health Service
Lidcombe Hospital
Liverpool Hospital
Manly Hospital & Community Health Services
Mona Vale Hospital & Community Health Service
Mt Druitt Hospital
Nepean Hospital, Penrith
Prince Henry Hospital, Little Bay
Prince of Wales Children's Hospital, Randwick
Royal Alexandra Hospital for Children, Camperdown/
Westmead
Royal North Shore Hospital
Royal Prince Alfred Hospital, Camperdown
Ryde Hospital & Community Health Service
St George Hospital, Kogarah
St Vincent's Hospital, Darlinghurst
Sutherland Hospital, Caringbah
Sydney Hospital
Westmead Hospital

Public Hospitals - Country/Interstate

Bathurst District Hospital
Cessnock Hospital
Coffs Harbour District Hospital
Dubbo Base Hospital
Gosford District Hospital
Goulbourn Hospital
Hastings District Hospital, Port Macquarie
John Hunter Hospital, Newcastle
Kempsey Hospital
Lismore Base Hospital
Manning Hospital, Taree
Murwillumbah Hospital
Orange Base Hospital
Port Kembla Hospital
Shellharbour Hospital
Tamworth Base Hospital
Woden Valley Hospital, ACT
Wollongong Hospital

Private Practices and Private Hospitals

ACT Radiology, Canberra
Ashfield Medical Imaging
Auburn Diagnostic Centre
Bankstown Imaging Centre
Bankstown Eldridge Radiology
Bathurst Radiology

The Hills Private Hospital, Baulkham Hills
Blacktown Radiology
Blacktown Diagnostic Centre
Blacktown X-ray
Sydney X-ray, Bondi Junction
Calvary Hospital, Bruce ACT
Campbelltown Radiology
Mediscan, Campbelltown
Campsie Imaging Centre
Caringbah Imaging Centre
Castle Hill X-ray
Chastwood X-ray, CT and Ultrasound
St Vincent's Private Hospital, Darlinghurst
Dee Why X-ray and CT
Orana Radiology, Dubbo
Eastwood Imaging
Eastwood X-ray
Fairfield X-ray
Gosford Radiology Centre
Hurstville Imaging Centre
St George Imaging, Kogarah
Lakemba X-ray Centre
North Coast Radiology, Lismore
Ultrascan Radiology, Liverpool
Rayscan Imaging, Liverpool
Miranda Imaging
Castlereagh Radiology, Mt Druitt
Parramatta Imaging, North Parramatta
Ultrascan, Penrith
Castlereagh Radiology, Penrith
Sydney X-ray, Randwick
Revesby X-ray Centre
North Shore Radiology, St Leonards
Vesebe Pty Ltd, South Nowra
Sutherland Imaging Centre
City Medical Imaging, Sydney
Sydney Adventist hospital, Wahroonga
Wentworthville X-ray
Westmead X-ray
Radiological Centre Westmead
National Capital Diagnostic Imaging, Woden Town Centre
ACT
Mawarra Radiology, Wollongong

Nuclear Medicine

Public Hospitals

Metropolitan

Hornsby Ku-Ring-Gai Hospital & Area Health Service
Lidcombe
Liverpool
Prince of Wales, Randwick
RGH, Concord
Royal Alexandra Hospital for Children, Camperdown
Royal Prince Alfred, Camperdown
Royal North Shore
St George, Kogarah
St Vincent's, Darlinghurst
Westmead

Country/Interstate

niawarra Hospital, Wollongong
John Hunter, Newcastle
Launceston General
Orange Base

Royal Brisbane
Royal Perth
Sir Charles Gairdner, Perth
Woden Valley, ACT
Queen Elisabeth II, South Australia

Private Practices and Private Hospitals

Allamander Private Hospital
Ashley Centre, Westmead
Blacktown Nuclear Imaging
Burwood Nuclear Medicine
Castlereagh Radiology
Central Coast Nuclear Medicine, Gosford
Dee Why Nuclear Medicine
Department of Nuclear Medicine, Caringbah
Gosford Nuclear Medicine
Isotope Imaging WA
John James, Canberra
Liverpool Nuclear Medicine
Mater Misericordiae, Crows Nest
Mater Misericordiae, South Brisbane
Medical Centre, Penrith
Missenden Medical Centre, Camperdown
North Coast Nuclear Medicine, QLD
North Coast Radiology, Lismore
Nuclear Diagnostic, Randwick
RPAH Medical Centre, Newtown
Ryde Medical Centre
St Andrews Hospital, Toowoomba
Sydney Adventist Hospital
Holy Spirit Hospital, Brisbane
South West Nuclear Medicine, Liverpool
Southwest Nuclear Medicine, Campbelltown
Wagga Wagga Nuclear medicine
Bankstown Nuclear Medicine
Blacktown Nuclear Medicine
Sutherland Nuclear Medicine
Nowra Nuclear Medicine

Radiation Therapy

Public Hospitals

Metropolitan

Liverpool Hospital, Liverpool
Prince of Wales, Randwick
Royal North Shore
Royal Prince Alfred, Camperdown
St George Hospital, Kogarah
St Vincent's Darlinghurst
Westmead

Country/Interstate

Illawara Cancer Centre, Wollongong
Mater Misericordiae, Newcastle
Woden Valley Hospital, Canberra

Private Practices and Private Hospitals

Sydney Radiotherapy & Oncology Centre, Crows Nest

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
Royal Alexandra Hospital for Children,
Camperdown
Ryde Rehabilitation & Geriatric Service
St George, Kogarah
St Vincent's, Darlinghurst
Sydney Eye, Woolloomooloo
Westmead

Country/Interstate

Adelaide Medical Centre for Women & Children
Fremantle Hospital, Fremantle
Gosford District
Holywood Hospital, Nedlands
Lions Eye Institute, Nedlands
Princess Alexandra, Woolloomooloo
Princess Margaret Hospital, Perth
Repatriation & General, Daw Park, Adelaide
Repatriation & General, Greenslopes, Brisbane
Royal Adelaide
Royal Brisbane
Royal Hobart
Wagga Wagga

Overseas

Auckland, New Zealand

State Government Departments and Agencies

Community Health Centres:

Kingswood, Hornsby Child & Family Health,
South Australian Health Commission, Flinders
Medical Centre, Bedford Park
Western Sydney Developmental Disability
Service, Marsden Campus

Community Agencies and Private Organisations

Alice Betteridge School
Royal Blind Society of NSW - Enfield, Newcastle
& Canberra
Royal Guide Dog Association of Australia,
Milson's Point
Royal Far West Children's Health Scheme, Manly
Spastic Centre, Ryde

Private Practitioners

Private Practices

S Brunner
J Cumines
PElmurr
AMacfarlane
S Sutton

Private Sponsored Practices

M Awad, Y Makdissi - Dr S Franks
R Krikorian - Dr A Hunyor
K Bourne - Dr F Martin
P Britz - Drs M Manku, C Joneshart, W Porter
V Tosswill - M Strathdee
J Ellery - Dr K Chatfield
D Ferguson - Dr K Frumar
Drs S Heery & G Howsam
Dr R Higgins
Dr C Challinor
R Kay - Drs J Peters, J Dickson & C Thomas
R Keirnicky, K Pallett - Dr T Keldoulis
R Lang - Drs C Baker, W Barnett & Moore
V Mercer - Drs D Sharota & L Dinihan
G Morrow, J Tredinnick - Dr J Elder
Dr W Muntz
K Panos - Dr J Gregory-Roberts
A Petrovic - Dr E Gregory
A Pryke, K Tattersall - Dr M Simpson
J Richardson - Dr I Francis
L Rodkin - Gibb & Beeman, Optometrists
M Ryan - Dr M Jacobs
G van Beveren - Dr S Saunders
Drs I Goldberg & G Cohn - M Courtney
L Wilcox - Dr L Wards

School of Occupational Therapy

The School of Occupational Therapy wishes to acknowledge the following agencies for their valuable contribution to the 1995 Fieldwork Program for its students in the Associate Diploma of Applied Science (Diversional Therapy) and the Bachelor of Applied Science (Occupational Therapy).

Public Hospitals

Metropolitan

Aldersgate House Nursing Home
Ann Maria Nursing Home
Armon Nursing Home
Auburn
Auburn Aged Day Care
Autumn Lodge Village
Balmain
Bankstown
Beecroft Nursing Home
Belmore Nursing Home
Benevolent Society of NSW
Benevolent Society
Berkeley Village
Bethany Nursing Home
Bethel Nursing Home
Birdwood Road Dementia Day Care
Blacktown District
Bossley Park Nursing Home
Buckingham House Art Workshops
Buckland Nursing Home
C.A. Brown Anglican Village
Canterbury
Carinya Aged and Ethnic Day Care
Carrington Centennial Hospital
Chalmers Road Special School
Chesalon Barrenjoey Day Care Centre
Chester Hill Neighbourhood Centre

Community Learning Centre
Coorabel Hospital
Cumberland Hospital
Concord Hospital
Darlinghurst Day Care Centre
Department Sport Recreation and Racing
Department of Community Services
Dorothy Henderson Lodge
East Sydney Developmental Disability Service
Edinglassie Retirement Village
Eleanor Mackinnon Centre
Endeavour Nursing Home
Ethnic Child Care Centre
Eversleigh Hospital
Eversleigh Hospital - Palliative Care
Evesham Clinic
Fairfield Nursing Home
Fairfield District Hospital - Rehabilitation Unit
Fairhaven Retirement Village
Frank Vickery Village
Frank Whiddon Masonic Homes
Freemason's Homes of South Tasmania
Garrawarra Centre for Aged Care
Gladesville - Macquarie Hospital
Governor Phillip Hospital
Greenwich Hospital
Guildford Neighbourhood Centre
HADPAC
Handicapped Children's Centre
Hastings District Hospital
Hastings District Health Services
Head "Alkoomi"
Henry Kendall Nursing Home
Hevington House Special Day Care
H.N. McLean Retirement Village
Holroyd Disability Service
Home of Peace, Greenwich
Hornsby Ku-Ring-Gai Hospital and Area Health Service
James Fletcher Hospital
James Milson Retirement Village
John Paul Village
Kalparrin, Concord Hospital, Ward 18
Kiama Health Support Service
Kilbride Nursing Home
Lady Davidson, North Turrumurra
Leisure World Nursing Home -
Level 1, Otis Building; Level 4, Room 24, Vinden House
Lidcombe Hospital
Lifestyle Options Program -
Venee Burgess House
Lismore Carroona Nursing Home
Liverpool
Lottie Stewart, Dundas
Lourdes Hospital
Macquarie Hospital
Manly Hospital
Marsden Hospital
Manly Hospital and Community Health Service
McKay Nursing Home
Marsden Centre
Mayflower Retirement Village
Mercy Care Centre - Day Care
Mercy Family Life Centre

Mona Vale Hospital and Warringah Area Health Service
 Montefiore Jewish Home
 Moonby House Nursing Home
 Myrtle Cottage Group
 Mt Druitt
 Nareen Gardens Retirement Village
 Neringah Hospital
 Nepean Hospital, Penrith
 Northaven Retirement Village
 Our Lady of Consolation Home
 Parkdale Nursing Home
 Parramatta Peer Support
 Pecky's Playground
 Percy Miles Village
 Prince Henry, Little Bay
 Prince of Wales, Randwick
 Princess Juliana Lodge
 Rachel Foster, Redfern
 Recreation Section of Ryde/Hornsby Disability Service
 Roselands Nursing Home
 Royal Alexandra Hospital for Children,
 Royal North Shore, St Leonards
 Royal Prince Alfred, Camperdown
 Royal Rehabilitation Centre, Sydney
 Rozelle
 RSL Veterans Retirement Villages
 Ryde Hospital and Ryde-Hunters Hill Area Health Service
 St. George (Sacred Heart Hospice)
 St Joseph's Auburn
 St. Vincent's, Darlinghurst
 Sacred Hearts Hospice
 Salvation Army Nursing Home and Day Care
 Sans Souci Retirement Hostel
 Sarah Claydon Retirement Village
 Scottish Hospital
 Scottish Hospital Aged Care Centre
 Shalom Nursing Home
 South Sydney Council Youth and Leisure Centre
 South Sydney Hospital
 Southern Cross Homes Inc.
 Springwood Nursing Home
 St. John of God Hospital
 St. Marys Villa
 Strathlee Nursing Home
 Strickland Villa, Prince Of Wales Hospital
 Sutherland Hospital
 Tamworth Base Hospital
 Tanderra Nursing Home
 Tangara Special School
 The Hills School for Special Purposes
 The Ritz Nursing Home
 The Lorna Hodgkinson Sunshine Home
 The Palms Nursing Home
 Trentham Nursing Home
 Villawood Nursing Home
 Wade-Lyn Nursing Home
 Waldock Nursing Home
 War Memorial, Waverley
 Weemala, Ryde Rehabilitation
 Wellington District Hospital
 Westmead
 Willyama Cottage
 Wontama Homes
 Yallambi Nursing Home

Country/Interstate
 Albury Base
 Ballina
 Bathurst District
 Bathurst Rehabilitation Centre
 Bellingen River and District
 Belmont District
 Blue Mountains District Memorial
 Bowral and District
 Broken Hill Base
 Camden District
 Campbelltown
 Central Coast Area Health Service
 Cessnock
 Coffs Harbour and District
 Coledale District
 Cootamundra
 Cowra District
 Forbes District
 Gunnedah District
 Illawarra Regional Hospital (Port Kembla Campus)
 Illawarra Regional Hospital (Wollongong Campus)
 James Fletcher Hospital, Newcastle
 John Hunter, Hospital
 Kempsey District
 KurriKurri
 Launceston General
 Lithgow District
 Lourdes, Dubbo
 Maitland Hospital
 Mater Misericordiae Hospital, Waratah
 Mercy Care, Young
 Mercy Hospital, Albury
 Muswellbrook District
 Orange Base
 Parkes
 Port Macquarie
 Rankin Park
 Royal Adelaide, South Australia
 Royal Newcastle
 Shellharbour, Mt Warrigal
 Shoalhaven District Memorial, Nowra
 St Vincents, Lismore
 Tamworth Base
 The Campbell Hospital
 Toowoomba General, Queensland
 Tweed Heads District Hospital & Health Services
 Tumut Hospital
 Wagga Wagga Base
 Woden Valley Hospital

Private Hospitals and Nursing Homes

Aldersgate House Nursing Home,
 Allowah Babies, Dundas
 Alwyn Rehabilitation, Strathfield
 Anna Maria Nursing Home, Putney
 Armon Nursing Home, Petersham
 Beecroft Nursing Home
 Berkeley Vale Private Hospital
 Bethany Nursing Home, Eastwood
 Bethel Nursing Home, Ashfield
 Bossley Park Nursing Home
 Calvary Hospital ACT (Inc)

Carrington Centennial Hospital for
 Chatswood Community Nursing Home
 Convalescents, Camden
 Dorothy Henderson Lodge, Marsfield
 Edinglassie Retirement Village, Emu Plains
 Endeavour Nursing Home, Springwood
 Ethel Forrest Centre, Wagga Wagga
 Evesham Clinic, Cremorne
 Fairfield Nursing Home
 Frank Vickery Village, Sylvania
 Frank Whiddon Masonic Homes, Glenfield
 Garrawarra Hospital, Waterfall
 Gertrude Abbott Nursing Home, Surry Hills
 James Milson Nursing Home, North Sydney
 Kilbride Nursing Home, Campbelltown
 Lawrence Hargrave, Thirroul
 Leisure World Nursing Moonby House Nursing Home,
 Peakhurst
 Mount Wilga, Hornsby
 Myrtle Cottage Group
 Neringah Hospital, Wairoonga
 Northaven Retirement Village, Turramurra
 Our Lady of Consolation, Rooty Hill
 Parkdale Nursing Home, Waverley
 Princess Juliana Lodge
 RSL Veterans' Village
 Sans Souci Retirement Hostel
 Sarah Claydon Retirement Village, Milton
 Shalom Hostel and Nursing Home for Aged,
 Marsfield
 Southern Cross Homes, Merrylands
 The Palms Nursing Home, Kirrawee
 Trentham Nursing Home, Willoughby
 Wade-Lyn Nursing Home, Hurstville
 Wesley Gardens Retirement Village, Belrose
 Wesley, Ashfield
 Yallambi Nursing Home for Aged Ladies,

Commonwealth Government Departments and Agencies

Commonwealth Rehabilitation Service

Government Departments and Agencies

Auburn Aged Day Care Centre, Auburn
 Aged Care Assessment Team, Kurri Kurri
 Aged Community Service Team
 Bankstown Department of Community Services
 Banksia House
 Bathurst Rehabilitation Centre
 Bathurst Aged Care Team
 Belconnen Health Centre, ACT
 Blacktown/Mt Druitt Area Health Service
 Brookvale Living Skills Centre
 Buckingham House, Surry Hills
 Bulli Community Health Centre
 Bundara Psychiatric Rehabilitation Service
 Canterbury Area Health Service
 Caringbah Community Health Centre
 Centacare Early Intervention Team
 Central Coast Area Health Centre
 Chalmers Rd Public School, Strathfield
 Chatswood Day Centre
 Chester Hill Neighbourhood Centre
 Child Health and Development Service,
 Condell Park Residential Service

Crisis Assessment and Treatment Team,
 Newcastle
 Croydon Living Skills Centre
 Department of Aged Care, Sutherland
 Department of Community Services, Bathurst
 Department of Community Services, Gosford
 Department of Community Services, Hornsby
 Department of Community Services, Maitland
 Department of Community Services, Newcastle
 Department of Community Services, North Parramatta
 Department of Community Services, Ryde
 Department of Community Services, Orange
 Department of Community Services, Tamworth
 Department of Community Services, Taree
 Department of Community Services, Toronto
 Department of Community Services, Kogarah
 Dickson Day Centre, ACT
 Dixon Unit Geriatric and Rehabilitation Unit, Ryde
 Ellamatta Lodge, Mosman
 Extended Care, Orange
 Fairfield Living Skills
 Glebe Community Care Centre
 Greenhouse Living Skills Centre
 Guildford Neighbourhood Centre
 Holroyd Disabilities Service
 Hunter Aged Care Assessment Team
 Kalinda Living Skills
 Joint Coal Board
 Lakes Rehabilitation Team
 Laurel House, Parramatta
 Lismore Living Skills Centre
 Liverpool Department of Community Services
 Liverpool Living Skills
 Lower Hunter Community Health Centre
 Maneen House Living Skills Centre,
 Mangerton
 Manly-Warringah Developmental Disability Service
 Mobile Community Management Team
 Molong Community Health Centre
 Moruya Community Health
 Mt Druitt Community Health Service
 Nelson Bay Community Health
 NSW Department of Sport, Recreation and Racing
 Orana Community Health Centre, Dubbo
 Redfern Community Health Centre
 Rehabilitation Module, Marrickville
 South Western Sydney Area Health Service
 St George Living Skills
 St George School, Rockdale
 Stockton Centre
 Sutherland Community Rehabilitation Team
 The Hills District School for Special Purposes, Northmead
 Tuggeranong Seniors Centre
 Waratah Nepean Developmental Disability Service
 Waratah Orthopaedic School
 Wicks Living Skills Centre

Community Agencies and Private Organisations

Alice Betteridge School
 Birdwood Road Day Care Centre, Georges Hall
 Hand in Hand, Waitara
 Heyington House Day Care, Auburn
 Independent Living Centre
 Marsh Occupational Health

Multiple Sclerosis Society of NSW,
Lidcombe
N.S.W. Society for Children and Young Adults with Physical
Disabilities
Pecky's Playground, Prospect
Stanbridge, White & Assoc Wagga
Royal Blind Society of NSW
Spastic Centre of NSW
Total Rehabilitation Service

School of Physiotherapy

The School of Physiotherapy wishes to acknowledge the vital function performed by physiotherapists who undertake the clinical education of its undergraduate students. These Clinical Educators are located in clinical units in New South Wales and interstate.

Public Hospitals

Metropolitan

Auburn District
Balmain
Bankstown-Lidcombe
Blacktown District
Campbelltown
Canterbury
Concord Repatriation General
Fairfield District
Greenwich
Hornsby Kuring-Gai Hospital & Area Health Service
Lady Davidson, North Turramurra
Liverpool
Manly Hospital & Community Health Service
MtDruitt
Prince Henry, Little Bay
Prince of Wales, Randwick
Rachel Forster, Redfern
Royal Alexandra Hospital for Children, Camperdown
Royal Hospital for Women, Paddington
Royal North Shore, St Leonards
Royal Prince Alfred, Camperdown
St George, Kogarah
St Josephs Auburn
St Vincent's, Darlinghurst
Sutherland Hospital, Caringbah
Sydney
War Memorial, Waverley
Westmead

Country/Interstate

Albury Base
Armidale and New England
Bathurst Base
BulU District
Coffs Harbour and District
Coledale District
Condobolin District
Cooma Base
Dubbo Base
Gold Coast Hospital
Gosford District
Goulburn Base
Griffith Base

"Homeleigh" Wollongong Community Rehabilitation
Centre
Illawarra Regional Hospital (Wollongong and Port Kembla
Campuses)
Kempsey
Lismore
Lithgow
Maitland
Manning Base
Mater Misericordiae, Newcastle
Mercy Care Centre, Young
Mudgee District
Nepean
Orange Base
Parkes
Port Macquarie & Hastings District
Rankin Park
Repatriation General, Hobart
Royal Newcastle
Shell Harbour
Shoalhaven District Memorial, Nowra
St Vincent's, Lismore
Tamworth Base
Wagga Wagga Base
Woden Valley
Woy Woy
Wyalong District
Wyong District
Private Hospitals and Nursing Homes
Mt. Wilga Private Hospital
Sacred Heart Hospice
Sydney Adventist Hospital
Commonwealth Government Departments and Agencies
ACT Community and Health Department (Infant and Child
Services)
Australian Institute of Sport (ACT)
Belconnen Health Centre (ACT)
Commonwealth Rehabilitation Service
 Liverpool
 Hurstville
 Ashfield
 Darlinghurst
 Mt Druitt
H.M.A.S. Penguin

State Government Department and Agencies

Department of Community Services
- John Williams Therapy Centre
- Mandala
- Bexley
- Illawarra
- Yalbillina (Coffs Harbour)

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 Far West Children's Health Scheme (Manly)
Royal Institute for Deaf & Blind Children - The Alice
Betteridge School
Spastic Centre (Ryde, Allambie Heights)

Private Practitioners

Jenny Aiken
Albert Alonso
Ian Austin
Sue Cockcroft & Melinda Johnson
Maria De Sousa & Heather Marr-Wyllie
Kate Duncan
Gary Eastburn
Gillian Forster & Joel Werman
Judith Furey
Beverley Giovanelli & Kenneth Raupach
Julie Godfrey
Suzanne Jones & Ashton Lucas
Peter Knapman
Lee Jensen
Sue Lovelock
Gae Milazzo
Amanda Mussett
Louise O'Connor & Roger Fitzgerald
Grant Pleffer
Neil Potter"
Jeff Pross
Rosemary Prosser
Phillip Richardson
John Roberts
Greg Sheather
Elizabeth Steet & Mark Bevan
Colin Thompson
Lisa Tomlinson-Alonso
Margaret Turner
Gordon Waddington
Hilary Waldman
Sandra Walker
Stuart Waters
Carolyn Young
David Young

16 Administrative Information

Course Enquiries and Applications

Student Administration (Cumberland)

Student Administration (Cumberland), which is located in the Jeffrey Miller Administration Building, provides intending applicants, both local and overseas, with information and advice on the various courses offered by the Faculty, as well as associated matters of admission and enrolment. Enquiries can be made Monday - Friday between 9 a.m to 4.30 p.m The postal address is:

Student Administration (Cumberland)
The University of Sydney
P.O. Box 170 Lidcombe, NSW 2141
Telephone (02) 646-6625

Undergraduate Course Applications

Applications for the following Faculty undergraduate courses are processed by the Universities Admissions Centre (UAC):

Bachelor of Applied Science

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

Bachelor of Health Science

- Aboriginal Health
and Community Development
- Rehabilitation Counselling

UAC application forms and Student Information Guides are available in August each year:

- for New South Wales Higher School Certificate students, from schools;
- for ALL other undergraduate applicants, from the Universities Admissions Centre

Postal Address:
UAC, Locked Bag 500
Lidcombe, NSW 2141
Telephone (02) 330-7200

All Other Course Applications

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

For further information on Master's degree applications, see Chapter 4; on Doctoral applications, see the University of Sydney Calendar.

Closing Dates

It is essential that the closing dates for lodgment of applications are adhered to, and intending students should pay close attention to the course advertisements which appear from time to time in the press and in particular careers supplements.

Late applications may be considered. Late eligible applicants may be placed on a reserve list.

Further Information

Career Market Days, Ternary Information Days, Course Information Seminars and Open Days are frequently held. For details, phone the University on (02) 646-6629.

Graduate Students

Detailed application procedures are set out in Chapter 4.

Deferment of Enrolment for 1 Year by First Year Students

A person granted admission to an undergraduate course of the University and who undertook at least 10 units of the N.S.W. Higher School Certificate, or its equivalent, in the preceding year/ may be permitted to defer for a maximum period of one year.

Deferment of enrolment will not normally be granted to enable an applicant to undertake another tertiary course except where that course has a direct bearing on the deferred course.

All other applicants may not be permitted to defer enrolment unless there have been extreme and unpredictable changes in circumstances.

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

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

Registration and Enrolment

Status of Students

A student shall be deemed to be a registered student of the University from the time of first enrolment, until the student

- a) has completed the course; or
- b) has discontinued studies; or
- c) has been excluded from the course and/or the University; or
- d) is deemed to have abandoned the course.

Completion of enrolment will include submission and subsequent acceptance of matters outstanding at the time of receipt of a signed enrolment form. Such matters may include orthoptic eye tests, evidence of meeting course admission prerequisites and any other items.

Registered students are required to enrol at the start of each year or semester as determined by the 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 a continuing year.

Non-Award Enrolment

Notwithstanding the provisions of any other By-law, a Faculty, Board of Studies or Graduate School may, in circumstances approved by that Faculty, Board of Studies or Graduate School, permit any person to enrol as a non-Award student in a specified course or subject/s with which the Faculty, Board of Studies or Graduate School is concerned.

The Academic Board may, on the recommendation of a Faculty, Board of Studies or Graduate School, from time to time prescribe

- a) subjects which, if completed by a person enrolled as a non-award student, may be counted towards a degree in that Faculty, Board of Studies or Graduate School; and
- b) the circumstances under which any such subjects may be counted.

Study as a non-award student may be taken into account on subsequent enrolment in an award course.

Eligibility Criteria

Heads of School/Department may approve the non-award enrolment of an applicant in a subject offered by their School/Department providing the applicant has the required pre-requisite knowledge to study the subject and there are sufficient resources to accommodate the applicant.

Fees

All non-award enrolments are to be charged on the basis of a fixed fee (\$12,750 for 1995) for a full time load, multiplied by the weight of the individual subject in the degree offered by the Faculty.

Miscellaneous Enrolment

Provision is made in the Faculty for students to undertake study in subjects which form part of award courses. Study as a miscellaneous student will not be taken into account on subsequent enrolment in an award course in the University of Sydney.

Miscellaneous students will be required to pay the prescribed fees (minimum \$6.00 per hour in 1995) for this mode of study. An application to enrol as a miscellaneous student is made to the Continuing Professional Education and Conference Unit. Approval is then sought from the Head of School/Department.

Miscellaneous students' results will not be formally presented but a certificate of successful completion will be given on completion of subjects.

Application forms are available from the Continuing Professional Education and Conference Unit.

Cross-Institutional Enrolment

Students enrolled in a recognised tertiary course at another institution will be permitted to enrol in any subject in degree and diploma courses in the Faculty of Health Sciences, providing the subject is approved by the home institution,

the applicant satisfies the pre-requisite knowledge to study the subject and resources are available to support the enrolment in the subject.

The decision to offer a cross-institutional enrolment will be endorsed by the Faculty Undergraduate/Graduate Studies Committee on the recommendation of the Head of School, on advice of Course and Area Co-ordinators.

Fees

HECS charges apply.

Enrolment of New Students

Enrolment of new students in a course entails:

- a) completion of an Enrolment form attesting the subjects in which the student will be enrolled in the first year of the course;
- b) completion of such forms for statistical purposes as required by the Department of Employment, Education and Training, and any other government agency;
- c) completion of a form to indicate mode of payment of the Higher Education Contribution;
- d) completion of such other forms as required by the Faculty or University;
- e) payment of compulsory and other fees in relation to study at the University including Student Guild fees;
- f) payment of the estimate of the Higher Education Contribution if the "up-front" mode of payment is adopted.

New students accepting places in courses processed by the Universities Admission Centre are required to present themselves at the Cumberland Campus to commence enrolment on Thursday 1, or Friday, 2 February, 1996, and will be required to complete at least items (a) - (d) above.

New students accepting places in courses for which they applied directly to the Faculty (non-UAC courses) are required to present themselves at the Cumberland Campus to commence enrolment on Tuesday, 30 January, 1996, and will be required to complete at least items (a) - (d) above.

Students who receive UAC offers in the Final Round are required to present themselves at the Cumberland Campus to commence enrolment on Tuesday, 13 February, 1996.

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, 16 February, 1996 or the enrolment may be cancelled (financial assistance in the form of a loan is available to support the payment of compulsory subscriptions). A fees charges deposit notice for this purpose will be issued at enrolment. If these fees are not paid by this date the enrolment may be cancelled. If re-instatement is subsequently requested and approved a \$100 re-instatement fee may apply.

The estimate of Higher Education Contribution, if the "up-front" mode of payment is adopted, must be paid by Friday, 15 March, 1996. A statement of enrolment and another fees charges deposit notice will be issued by the end of February for this purpose. Late payments will not be accepted. Failure to pay by this date will result in the "up front" payer's enrolment being cancelled on 29 March, 1995, unless the payment option is altered to "defer-to-tax" by 28 March, 1996.

The last day for new students to commence enrolment is the Friday at the end of Week 2, Semester 1 (i.e. 8 March, 1996). The last day to complete enrolment is Friday 29 March, 1996. 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 in a year subsequent to the first year of enrolment in the course;
- b) completion of such forms for statistical purposes as required by the Department of Employment, Education and Training, and any other government agency;
- c) completion of a form to indicate mode of payment of the Higher Education Contribution only if the student is changing mode from that adopted in the immediately preceding semester;
- 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 estimate of the Higher Education Contribution, if "up-front" mode of payment is adopted.

Re-enrolment by continuing students will be carried out by mail. At the end of January, 1996, students who have indicated intention to re-enrol and are eligible to continue their course will be sent the documents necessary to re-enrol in their course (items a. to e. above). The payment of all fees will be by Bank deposit through any branch of the National Australia Bank. Compulsory subscriptions and other fees must be paid by Friday, 16 February, 1996 (financial assistance in the form of a loan is available to support the payment of compulsory subscriptions). A fee charges deposit notice for this purpose will be issued in the re-enrolment kit. If these fees are not paid by this date the enrolment may be cancelled. If re-instatement is subsequently requested and approved a \$100 re-instatement fee may apply.

The estimate of Higher Education Contribution, if the "up-front" mode of payment is adopted, must be paid by Friday, 15 March, 1996. A statement of enrolment and another fees charges deposit notice will be issued by the end of February for this purpose. Late payments will not be accepted. Failure to pay by this date will result in the "up-front" payer's enrolment being cancelled on 31 March, 1995 unless the payment option is altered to "defer-to-tax" by 29 March, 1996.

Academic advisers will be available for consultation concerning variations to proposed subjects for enrolment during the first week of February. Completed re-enrolment documents are required at Student Administration (Cumberland) by Friday, 2 February, 1996.

The last day to complete re-enrolment is Friday, 29 March, 1996. The above dates may be varied only with the express approval of the Director, Student Administration (Cumberland). Failure to complete enrolment by the above date will be deemed to indicate an intention on the part of students to abandon their course.

Assisted Students - Enrolment

Scholarship holders or sponsored students who have not received an enrolment voucher or appropriate letter of authority from their sponsor at the time of enrolment should complete their enrolment and pay their own fees. A refund of fees will be made when the enrolment voucher or letter of authority is subsequently lodged with Student Administration (Cumberland).

Student Identity Card

All registered students are issued with a University identity card. This card must be carried during attendance at the University and shown on official request. The card must be presented when borrowing from the University Libraries and when applying for and using travel concessions.

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

In the event of a student losing his/her identity card a replacement may be issued by the Student Administration (Cumberland), on payment of a fee to the Cashier.

Semester 2 Statement of Enrolment

Normally by the last Friday in the mid-year vacation (2 August, 1996) a statement of the expected Semester 2 enrolment pattern and associated estimated amount of Higher Education Contribution will be sent by mail to the semester address of each currently enrolled student.

If the statement is accepted by the student, and the Higher Education Contribution is to be paid "up-front" as it was in the previous semester, then the payment should be made using the accompanying bank deposit form and the statement retained. Payments must be made by Friday, 23 August, 1996. Late payments will not be accepted. Failure to pay by this date will result in the "up-front" payer's enrolment being cancelled on 31 August, 1996 unless the payment option is altered to "defer-to-tax" by 30 August, 1995. If amendments are required to the statement it should be returned to the Student Administration (Cumberland) by Friday, 23 August, 1996, with an attached letter detailing the expected amendments. Amendments may entail the completion of an "Application for Variation of Course".

Students who do not intend to continue their studies in Semester 2 must FORMALLY WITHDRAW from their course before 30 August, 1996, or they will be charged HECS for Semester 2.

Confirmation of Enrolment

By the last Friday in April (in Semester 1) and September (in Semester 2), all enrolled students should have received a notice outlining the details of their enrolment and providing a record of their Higher Education Contribution for the current semester. Only if an amendment to this notice is required should it be returned to Student Administration (Cumberland) with an attached letter detailing the expected amendments. Amendment may entail the completion of an "Application for Variation of Course". If the detail of the notice is accepted, it should be kept by the student as a record in relation to the Higher Education Contribution for that semester.

Higher Education Contribution Scheme (HECS)

The Australian Government requires most students in higher education courses to contribute to the cost of their education. To be exempt from payment of the contribution a student must:

- be undertaking a postgraduate course for which fees are charged in accordance with Commonwealth guidelines;
- be a fee paying overseas student but not sponsored under a foreign aid program;
- be otherwise subject to the Overseas Student Charge arrangements;
- be a fee paying overseas student sponsored under a foreign aid program;
- be enrolled in a recognised bridging or supplementary course which does not lead to an award;
- be enrolled in a course/place fully funded by an employer;
- enrolled in a recognised non-award course;
- have an Australian post graduate award awarded by the above institution;
- have a HECS teacher exemption scholarship awarded by an education authority.

An annual contribution (\$2,442 in 1996) will apply for each year of equivalent full-time study. For part-time students a pro-rata amount will apply according to the actual proportion of the equivalent full-time load being undertaken. The amount calculated at enrolment/re-enrolment is an estimate of the required contribution. The exact amount of the contribution will be calculated as at the census date in each semester (31 March in Semester 1 and 31 August in Semester 2), taking account of any amendments made to the course in which the student is enrolled. A notice of "Confirmation of Enrolment and HECS Liability" will be sent to every enrolled student after the census date in each semester setting out current HECS payment mode, the course load, the amount of contribution required for the semester, the amount paid thus far and the amount still to be paid or any refund due.

Payment of the contribution may be made in two ways (outlined below) and the mode of payment may be varied from semester to semester. New students will be required to make an initial choice of mode of payment when they first enrol and this will be taken to indicate the preferred mode for future payments. Continuing students will be expected to maintain the mode of payment adopted in the immediately preceding semester, although they may apply to vary their mode.

"Up-Front" Payment

This mode permits a student to pay an annual amount equal to 75% (\$1832 in 1996) of the estimated full contribution, half before the census date in each semester. The amount must be paid either as a lump sum or in two parts, with the first part being at least 50% of the required payment and the balance paid before the census date.

Students who choose to make their contribution "up-front" and fail to complete the payment by the nominated date, will be required to change their mode of payment to the "deferred" option prior to the census date unless they have elected the "safety-net" provision when completing the payment option. In this circumstance the discount is forfeited, and the "deferred" option continues unless changed by the student.

"Deferred" Payment

This mode permits a student to defer all or part of the full contribution for the semester until the taxable income of the student reaches a minimum threshold level. Choice of this mode requires a student to provide their tax file number at enrolment/re-enrolment. The amount deferred to tax must be either the full contribution or less than 50% of the full contribution depending on how much more than 50% of the full contribution is the amount of part-payment made before the census date.

Fee-Paying Postgraduate Programs

An increasing number of postgraduate coursework programs in the Faculty are moving from a HECS-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 and may take account of C.P.I. variations.

Amendments to a course after census date

Amendments made to a course before the census date in a semester will be taken into account in the calculation of a student's required contribution or course fee.

Amendments made after the census date which do not affect the amount of the contribution will cause no action to ensue. Where amendments after the census date decrease the amount of the contribution, no refund of payments nor reduction of the amount will be made and the student's original liability stands. Where amendments after the census date increase the amount of the contribution, the student is required to discharge his or her increased liability on the same basis that the original HECS liability was to be discharged to by either an "up-front" payment or a deferred payment.

Fees and Charges

Students of the University are required to pay the following compulsory fees and charges:

Student Guild Fees

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 student body that elects the Students' Representative Council and the Cumberland College of Health Sciences Students' Union or
- b) in a degree of Master or Doctor, a postgraduate diploma or a Master's Qualifying program to be a member of and pay subscriptions to the Sydney University Postgraduate Representative Association and the Cumberland College of Health Sciences Students' Union.

Note

- a) Exemptions from being a member or paying subscriptions may be granted on certain grounds specified in the University of Sydney Calendar. Students granted exemption on grounds of conscience will have their membership fee transferred to the Jean D. Foley Bursary Fund.
- b) Students enrolling for one semester only are to pay half the prescribed fees.

Extension of Time for Payment

Any student who is unable to pay compulsory fees or charges may apply 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.

Continuing International Students

Fees for Semester 1 must be paid by the last working day in the preceding November. Fees for Semester 2 must be paid by the last working day in April.

Late Applications for Admission to the Faculty

Applications for Universities Admission Centre courses which are submitted after the late closing date are to be submitted to Student Administration Division (Cumberland) with a late fee of \$60.00.

Late applications for non-UAC courses which are submitted directly to the College are not subject to a late fee.

Failure to meet Financial Liabilities

Any student who fails to pay prescribed fees or charges or is otherwise obligated to the University and who fails either to make a satisfactory settlement of that obligations upon receipt of due notice or receive a special exemption ceases to be entitled to use the University facilities. Such a student may not be permitted to register for a further semester, to attend classes or examinations, or to be granted any official credentials. This disbarment applies if any portion of fees or the supply of a required Tax File Number is outstanding at the census date in each semester, that is, 31 March in Semester 1 and 31 August in Semester 2. Reinstatement may require payment of a \$100 fee.

Refund of Fees

- a) 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 CCHS Students' Union detailing their case.
- b) If following some variation of enrolment, a student becomes eligible for a refund of all or part of an "up-front" Higher Education Contribution, the amount of the refund will be notified in the "Confirmation of Enrolment" notice and the payment made a short time after receipt of the notice.
- c) Request for refund of any other fees or contributions should be directed, in writing, to the Director, Student Administration (Cumberland) and should detail fully the grounds upon which the request is based.

(*) 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.

Credit Transfer

Policies

1. The Faculty of Health Sciences (FHS) has a policy of awarding students maximal credit for prior academic achievements within the following resolutions (2-8).
2. Four forms of credit transfer may be granted :
 - a) *Block Credit* for whole stages or years of course. Students are awarded the grade of Advanced Standing (AS) for all subjects credited.
 - b) *Specified Credit 1* for whole subject(s) which the student is not required to undertake based on completion of studies which have been deemed equivalent. The student is awarded the grade AS;
 - c) *Specific Credit 2* for parts of subjects which the student is not required to undertake based on completion of studies which have been deemed equivalent (previously termed "exemption"). These subjects will attract only a ZP or F final grade. Course Examiners may record a mark with these grades.
 - d) *Unspecified Credit* which can be granted when the student has completed similar learning rather than learning which is "deemed equivalent" (see b or c). In this case students are awarded credit points (in unit-structured courses) &/or are granted AS grades in subject(s) or electives.
3. In undergraduate programs of 3 years standard length, a maximum of two thirds credit transfer is permissible.
4. In undergraduate programs of 4 years standard length, a maximum of three quarters credit transfer is permissible.
5. In graduate coursework programs a maximum of two thirds credit transfer is permissible.
6. Where feasible and appropriate "class-action"(*) credit transfers into FHS courses will be implemented.
7. The Faculty Handbook will list existing "class-action" credit transfer policies and subjects where challenge examinations are routinely available.
8. Graduate Certificate Programs in the FHS are fee paying courses. Award of a graduate certificate following transfer from a graduate diploma program is conditional upon payment of approved fees.
9. Mechanisms for achieving credit transfer include:
 - a) provision of academic records (transcripts) and subject information or alternative information for a judgement on a case-by-case basis,
 - b) provision of appropriate evidence related to existing credit transfer class actions,
 - c) successful completion of available school/department challenge exams.
10. Credit for prior learning which is of a non-credentialed nature, may be granted on the recommendation of the head of school or department. This credit may take the form of any of the four forms of credit listed in Resolution 2. Such decisions will be made on a case-by-case basis.
11. Challenge exams provide an opportunity for students
 - to demonstrate that they have achieved the learning goals of a subject prior to enrolling in or completing the subject. Processing of challenge results will be completed at the latest by census dates. Successful completion of a challenge exam will result in a grade of Advanced Standing being awarded for that subject. Challenge

exams are not applicable for subjects which the student has previously failed.

12. Eligibility for credit does not guarantee a place in the course in which the credit would be available.
13. Where existing credit transfer statements (eg class actions) exist, such information would be available at the time of enrolment via the Faculty Handbook.
14. The procedures adopted to assess a particular subject/program or range of experiences as the basis for credit in a Faculty subject/program should ensure that the prior learning assessed is comparable in content and standard with the Faculty subject/program in which credit is sought. The standards applied in assessing recognition of credit for prior "informal" learning should not be greater than those required to pass the relevant component of the Faculty program.
15. Procedures for the recognition of credit for prior "informal" learning should ensure that:
 - for recognition of subjects/programs provided by a body other than a university or 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 specified nature of these courses and the limited number of programs of a similar nature in New South Wales and throughout Australia the number of requests for credit transfer based on completion of specific subjects at other Universities is very limited. Therefore a very limited number of "class-action" (*) for credit transfer have been implemented, and each student's case in relation to School subjects is generally considered on an individual basis in relation to information submitted.

Exceptions:

1. Challenge tests may be used for individual cases to clarify the level of prior learning in the School of Medical Radiation Technology and the School of Health Information Management.
2. Credit transfer class actions exist in relation to:
 - a) *the Bachelor of Health Sciences (Aboriginal Health and Community Development)* from the Associate Diploma in Aboriginal Health and Community Development (The University of Sydney), the Associate Diploma in Aboriginal Health and Community Development (Southern Cross University) and the Bachelor of Applied Science (Aboriginal Community Management and Development) (Curtin University);
 - b) *the Bachelor of Applied Science (Diversional Therapy)* from the Associate Diploma of Applied Science (Diversional Therapy) (The University of Sydney);

- c) *the Master of Applied Science (Manipulative Physiotherapy)* from graduate diplomas in manipulative physiotherapy awarded by Cumberland College of Health Sciences and The University of Sydney.

2. Departments within the Faculty of Health Sciences

The Departments of Biomedical Sciences and Behavioural Sciences receive many requests for credit transfer (in particular for Specified Credit 1 /Advanced Standing, based upon previous university studies) each year. To provide an effective mechanism for processing these applications:

- a) the Department of Biomedical Sciences will hold challenge examinations for Credit Transfer applicants in 1996 in the following subjects. Students applying for Credit Transfer in other subjects would need to submit documentary evidence of prior learning.

11158	
and 11193	Introductory Human Biology
11161	Body Systems I - PT1
11162	Basic Human Biology I
11172	Functional Anatomy A
11173	Functional Anatomy B
11175	Biological Sciences I
11176	Introductory Human Biology
11177	Musculoskeletal Anatomy
11178	
and 11191	Introductory Neurobiology
11179	
and 11192	Neurobiology I
11181	Body Systems I (Orthoptics and CD)
11183	Biological Sciences I
111A5	Life Sciences IA
111A6	Life Sciences IB
11283	Basic Human Biology II
11286	Body Systems II
11287	Neurobiology II
11294	Biological Sciences II
112A3	Biological Sciences II
112A4	
and 112A5	Biological Sciences 2A
112A6	Biological Sciences 2B
112A7	Neurobiology II
112A8	Body Systems I
112A9	Biomechanics
112B1	Introductory Pathology
112B3	Neurobiology It
112B5	Pathophysiology
112B6	Tumor Pathology
11374	Body Systems III
11375	Applied Physiology
11382	Body Systems H
11442	Functional Anatomy
11454	Biological Sciences
11476	Biological Sciences

- b) the Department of Behavioural Sciences will hold challenge examinations for Credit Transfer applicants in 1996 in the following subjects. Students applying for Credit Transfer in other subjects would need to submit documentary evidence of prior learning.

101B1	Cognitive Functioning
101B2	Management of Behaviour
101B6	Cognitive and Developmental Psychology

(*) 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.

102A4	Research Methods and Statistics II
10288	Social Interaction, Communication and Personality
10479	Health Psychology
10398	Social Theory and Health
10457	Health, Medicine and Society

3. Credit Transfer based on TAFE Studies C

Due to the specialised nature of the programs offered by the Faculty, there are a limited number of TAFE subjects which could result in Specified Credit 1 (Advanced Standing) into our programs.

Individual students may seek Specified Credit 2 (Exemptions) based on prior learning in TAFE programs by directly contacting the Subject Co-ordinator of the relevant subject.

Completion of the following TAFE subjects (as at 1995) may provide evidence to gain Specified Credit 1 or 2. Students seeking credit transfer should contact the Subject Co-ordinator(s) of the relevant subject(s).

Faculty Program

Bachelor of Applied Science (Orthoptics)

TAFE program/subject

Advanced Certificate in Optical Dispensing

Faculty Program

Bachelor of Applied Science (Occupational Therapy)

TAFE program/subject

Community Welfare (8749), Child Studies (8932), Child studies, Understanding children (8933), Child studies, child development (8934), Child studies, child management (8935), Working with older people (8742), Safety and occupational health management (8627), Careers access for the deaf and hearing impaired (8976), Working with people with disabilities (6926), Podiatry (6348).

Faculty Program

Bachelor of Applied Science (Diversional Therapy)

TAFE program/subject

Community Welfare (8749), Working with older people (8742), Working with people with disabilities (6926), Visual arts (5418), Recreation and leisure studies (4303), Interior design (5414).

Notes

1. In some cases challenge examinations may be required in addition to the provision of relevant information to support the student's application.
2. In all cases 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. Note that overall workload may influence eligibility for AUSTUDY/ABSTUDY support.
2. Having been granted Advanced Standing, the student may wish to seek approval via their Head of School, to enrol in higher stage subjects in their course.
3. Students gaining Credit Transfer/Advanced Standing are awarded the grade AS which is not included in the calculation of a Grade Point Average (GPA)
4. Gaining credit (exemptions or advanced standing) could influence the student's marks, either by allowing more time for studying other subjects and improving the marks gained in these subjects, or by gaining an AS grade instead of a (potentially) high mark (based on successful prior learning) which could increase the GPA. Specified Credit 2 (Exemptions) may also influence the mark and grade achievable in the subject and therefore the GPA.

Using the Grade Point Average:

GPA is the basis for:

- a) entry into Faculty Honours Programs
- b) identifying the award of "Graduation With Distinction"
- c) allocation to a hospital job (via the Allocation Scheme) after graduating from the Bachelor of Applied Science (Physiotherapy).

W.A.M.s for A.P.A.s

The calculation of Weighted Average Mark (W. A.M.) for the award of Australian Postgraduate Awards (scholarships) for postgraduate study involves consideration of all available marks. Only subjects with marks (i.e. excluding AS and ZP graded subjects) are considered in the calculation. Thus, credit for prior learning may affect the W.A.M..

Procedures

Details of the process for applying for Credit Transfer are given on the "Application for Credit Transfer" forms available from Student Administration (Cumberland) in the Administration Building, and from Schools/Departments on the Cumberland Campus. Applications for all subjects should be made on the appropriate form (i.e. the Application for Credit Transfer - School of .../Behavioural Sciences/Biomedical Sciences), and lodged with the secretary of the Head of School/Department presenting the subject(s). Students should continue to attend classes until the results of their credit transfer application are made available in the School/Department. Formal notification of the award of the grade AS (Advanced Standing) in subjects will occur in the Confirmation of Enrolment (in April) for all subjects.

Challenge Exams

Credit transfer in some subjects is to be determined by challenge exams. The application for credit transfer in all these subjects must be lodged with the relevant School/Department presenting the subject by the end of **Week 1 of Semester 1**. The timetable for challenge exams will be available from the relevant School/Department by the end of Week 1. For Semester 1 only and full-year subjects, challenge exams will be held before the end of Week 3 of Semester 1, and the results notified in the School/Department by the end of Week 5. For Semester 2 only subjects, challenge exams will be held before the end of Week 6, and the results notified in the School/Department by the end of Week 8.

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 must be lodged with the relevant School/Department presenting the subject by the end of **Week 2 of Semester 1**, with all relevant documentation attached. For Semester 1 only and full-year subjects, the result of the application will be notified in the School/Department by the end of Week 5. For Semester 2 only subjects, the result of the application will be notified in the School/Department by the end of Week 8.

Discontinuation of Studies, Variation of Course and Leave of Absence

General

In making a decision to Discontinue, Vary a Course or Apply for Leave of Absence, it is often advisable for a student to discuss the situation with the Head, Student Welfare Services (Cumberland) or the College Counsellor. While educational issues will be discussed within the School and/or 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 progress may be necessary, especially where these are related to illness or misadventure, and in planning effectively to overcome such difficulties.

Discontinuation of Studies

Discontinuation of studies refers to the formal abandonment of a course of study after enrolment/re-enrolment has been completed.

Students applying to discontinue their studies must complete an "Application for Discontinuation of Studies" form (available from the Student Enquiries Counter or the various Schools/Departments) and forward it, together with the completed "Exit Authority" to the Student Administration (Cumberland). These forms will not be accepted unless they contain the recommendation(s)/endorsement(s) of the appropriate Heads of Schools/Departments (or their delegates) and other Cumberland Campus staff. An incomplete application form will be returned to the student originating it.

For the application to obviate the payment of the Higher Education Contribution, it must be lodged by 31 March in Semester 1 or by 31 August in Semester 2.

To discontinue studies without failure being recorded against enrolled subjects, the application form must be accepted by the following dates:

- a) For Semester 1 only subjects, 29 March, 1996;
- b) For Semester 2 only subjects and full-year subjects by 30 August, 1996.

Undergraduate students whose applications are accepted by the Faculty in accordance with the above dates will have their records endorsed "DISCONTINUED WITHOUT FAILURE" for each appropriate enrolled subject.

Undergraduate students whose applications are not accepted by the Faculty in accordance with the above dates will have their records endorsed "DISCONTINUED WITH FAILURE" for each appropriate enrolled subject.

If a student discontinues after the above dates and produces appropriate evidence with the application that discontinuation was due to illness or misadventure, the Faculty may deem all subjects to be "DISCONTINUED WITHOUT FAILURE".

Upon discontinuation of studies, some refund of fees may be possible (refer to the section on Fees and Charges - Refund of Fees).

Students who abandon their course after enrolment/re-enrolment by not formally discontinuing (that is, "dropping-out") will be deemed to have failed all subjects in which they are enrolled and be ineligible for any refund of fees.

To establish the exemption procedure applicable within each School/Department students should consult the relevant academic advisors.

Re-Admission after Discontinuation or Abandonment of Course

Students who discontinue or abandon a course lose their status as registered students of the University. Any subsequent application for re-admission to the course from which they discontinued must be lodged by the advertised closing date. Such an application will be considered with all other applications received that year for that course. Applications for all undergraduate and postgraduate courses are processed directly by the Faculty and have a closing date of 1 December. For more information contact the Student Administration (Cumberland)

Variation of Course

The variation of course relates to the addition and /or discontinuation of subjects and requires the approval of the Faculty.

Students applying to vary their course must complete an "Application for Variation of Course" form (available from the Student Enquiries Counter or the various School/Department offices) and forward it to the Director, Student 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 29 March in Semester 1 or by 30 August in Semester 2. If the addition of any subjects is requested and approved after these dates, the student is required to discharge his or her increased liability on the same basis that the original HECS liability was to be

discharged i.e. by either an "up-front" payment or a deferred payment. If discontinuation of any subject is requested after these dates, no refund of payments nor reduction of deferred 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 29 March, 1996;
- b) For Semester 2 only subjects and full-year subjects, by 30 August, 1996.

Undergraduate students whose applications for discontinuation of subjects are accepted by the Faculty in accordance with the above dates will have their records endorsed "DISCONTINUED WITHOUT FAILURE" for each approved subject.

Undergraduate students whose applications are not accepted by the Faculty in accordance with the above dates will have their records endorsed "DISCONTINUED WITH FAILURE" for each approved subject.

If a student discontinues a subject after the above dates and produces appropriate evidence with the application that discontinuation was due to illness or misadventure, the Faculty may deem the subject to be "DISCONTINUED WITHOUT FAILURE".

Students should re-enrol in discontinued subjects or their equivalent at the next available opportunity.

Leave of Absence

Leave of absence for a specific period may be granted by the Faculty to students in special circumstances. Leave of absence shall not normally exceed one year but, in exceptional circumstances, up to two years may be granted. Leave is normally granted to the commencement of a semester.

Students returning from Leave of Absence will re-enrol in all incomplete required subjects or their nearest equivalent.

Students applying for leave of absence must complete an "Application for Leave of Absence" form (available from the Student Enquiries Counter or the various School/Department Offices) and forward it to 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 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 appropriate Head of School. Students who are granted Special Leave will be regarded as continuing in their currently enrolled subjects.

Examinations and Assessments

General

Assessments may take the form of written examinations, as well as practical and oral assessments.

Assessments are conducted throughout the semester, as well as during approved assessment periods. The term "assessment" shall include any assessment or examination conducted by the Faculty.

Attendance at Assessments

It is the individual student's responsibility to be available for all assessments, including Post and Deferred Assessments. Students who intend travelling away from Sydney should ensure that they are able to return in time to undertake an assessment at the time and place set down. The time or place for an assessment will not be altered to accommodate students who are unable to attend.

However, in certain circumstances, a student may be permitted to take examinations overseas, generally at a nominated University. These circumstances usually relate to travel for study purposes or for experience directly connected with studies approved by a School or Department. It is the responsibility of the student to obtain the Registrar's approval through Student Administration (Cumberland) before proceeding overseas.

Candidates are required to be present at the correct time and place. Misreading or misunderstanding of the time and/or the location of an assessment will not be accepted as a reason for failure to attend an assessment. Non-attendance on these or any other grounds insufficient to claim illness or misadventure will result in forfeiture of marks associated with the assessment.

Approved Assessment Periods

Approved assessment periods shall include assessment:

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

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

Assessment Timetables

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

Rules of Conduct of Written Examinations

Candidates will be admitted to the examination room ten (10) 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 (10) minutes before the time for the completion of the examination.

When time elapses candidates must immediately cease writing.

The title page of each booklet must be fully completed. The booklets should be 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 should move away quickly from the exit so that others are not disturbed.

During the examination period students and candidates should be particularly quiet when near an examination centre.

Candidates are not permitted to take bags, briefcases, folders, umbrellas, hats, mobilephones, 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 also must be placed on the floor.

Smoking or eating will not be permitted in the examination room nor will candidates be permitted to leave the room to smoke or eat.

Note: Failure to comply with any of the above rules may necessitate disciplinary action by the University.

Reading Time

Reading time often (10) minutes prior to the commencement of a written assessment may be allowed at the discretion of the examiner.

Conduct of Candidates

Candidates shall not, by any improper means, obtain or endeavour to obtain assistance in their work, or endeavour to give assistance to any other candidate.

Candidates shall not behave in such a way as will interfere with another candidate's right to undertake an assessment. Candidates shall not do anything designed to disadvantage other candidates during an assessment.

Misconduct in an assessment will be dealt with under the rules of the Faculty and the Statutes of The University of Sydney.

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 Enquires Counter and the required documentation to support the application. The rules governing completion of the form and the requirements concerning supporting information are written 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), 4 copies of the form and supporting documentation must be submitted at the Student Enquiry 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 the 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:

PRO	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 final result in the subject is outstanding
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
IIA	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 Handbook, are presented only in Semester 1.

End of Semester 2

Subjects that, according to the Faculty Handbook, are presented either in Semester 2 only or are presented over both Semesters 1 and 2.

Availability of Results for Terminating Subjects

Results will be made available to students as follows:

1. Public Display of Results

Results will be displayed on the day and at the places as notified on the Official Notice Boards.

Results will be displayed using the student identity number ONLY.

Students may exercise the option not to have their results displayed in this fashion by completing the appropriate form available from the Student Enquiry Counter.

2. Individual Result Notices

Individual result notices will be mailed to the student's last advised HOME ADDRESS on the date notified on the Official Notice Boards.

The result notice will show the final mark and grade for each relevant subject. Details of the assessment procedures used to determine the final result are available from the School/Department presenting the subject.

The relationship of grades to percentage marks is as follows:

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.

Subjects	% High		
	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 groups.

Special Notes

- No results will be given by telephone.
- It is the student's responsibility to ascertain assessment results.
- Advice of change of address will not be accepted unless in 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 may be granted by the Board of Examiners. Should the Examiner grant a supplementary assessment following the completion of all assessments in a subject but prior to the Board of Examiners, notification of the supplementary assessment must be sent to 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 (14) days of the date on which the results in question have been released.

Students dissatisfied with the outcome of a review of their result may choose to appeal the result by using the procedures approved in the Faculty for an Appeal against an Academic Decision.

Graduation "With Distinction"

Outstanding achievement in all Faculty undergraduate courses may be recognised at graduation by such students receiving an award "With Distinction".

In any one year, up to 10% of graduands in each of the undergraduate courses, may be admitted to the award "With Distinction" but this number need not be awarded if there are not graduands considered to be of sufficient merit.

The award "With Distinction" will be based on overall achievement in all subjects of the undergraduate course completed. Subject assessment in all stages of a given course will contribute equally towards a final ranking of students.

In terms of the current assessment system, subject grades will assume the following numerical numbers: HD-4, D-3, CR-2, P-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 requirement for a University award, students must obtain a passing grade in all subjects in their courses.

Students must repeat failed subjects or their equivalent at the first opportunity and will be permitted to progress to the next semester carrying failed subjects, providing course requirements, including any co-requisites, pre-requisites and attendance requirements, can be met. School Academic Advisors may prescribe the program of study for students repeating failed subjects.

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 by a message on their Assessment Notice, and may subsequently be formally notified in writing by the Faculty. Students found in such a condition 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 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 College 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

Refer to Chapter 15 on Clinical Education for Insurance.

Correspondence

All correspondence, quoting the student identity number, must be directed to Student Administration (Cumberland).

Change of Address

Students are required to notify Student Administration (Cumberland), of any changes in their addresses as soon as possible. Notice of 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 Director, Student Administration (Cumberland), of a change of address.

Official Notices

Official College 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:

- Jeffrey Miller Administration Building - 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

Application for Admission to Degree or Diploma

Students who expect to complete the requirements for their degree or diploma should complete an "Application for Award" form and submit it to the Examinations Branch by the date indicated on the form.

The application forms will be available to prospective graduates during their last semester of enrolment.

Student Records

In all matters concerning enrolment, advanced standing and assessment, the University will deal only in subjects.

Subjects are defined and numbered in various School/Department Chapters of this Handbook.

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 Director, Student Administration (Cumberland).

Transcripts of academic records are available to:

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

At graduation two transcripts will be issued free. 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 College Counsellor, or the Head, Faculty Office.

17 Facilities and Services

Bookshop

The University Co-operative Bookshop operates a branch on the Cumberland Campus. Situated at the rear of the Canteen, the Bookshop holds all prescribed texts and various stationery and software items.

Childcare

An on-campus long day care centre for children aged 0-3 years is expected to be built by the end of 1996, with details on waiting lists etc to also be available at that time.

College Library

The University of Sydney's Cumberland Campus maintains its own library to provide resources and support to students, staff and researchers. The Library collection of approximately 82,000 volumes and 1,014 serial titles is particularly oriented towards the health and social sciences. The library aims to support the undergraduate, graduate, and research programs, to provide service and assistance to users, as well as to provide certain general and recreational materials and a pleasant environment for study and research.

The College Library is located centrally on campus, in R block, and is accessible to users with physical disabilities. Level 1 includes the Reference collection, current issues of journals, Closed Reserve, the Information desk, the Circulation desk, photocopying facilities, CD ROM facilities, people with disabilities access room, wordprocessing room, study areas and staff work areas.

Level 2 contains the main collection of resources. Books, journals, video cassettes, computer software and other audiovisual materials are arranged by Dewey Decimal Classification within one sequence. Level 2 also contains study areas, audiovisual playing facilities and group study rooms.

Access to the library collection is via a user-friendly 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. Library staff also offer literature searching for a fee. Interlibrary loan services are also available.

Information Desk (Ph: 646-6437)

Enquiries about any aspect of the Library's services are most welcome.

Circulation desk (Ph: 646-6423)

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
Saturday and Sunday	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

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.echs.su.edu.au/Admin/lib/library.html>

Counselling Service

A counselling service is provided through **Student Welfare Services (Cumberland)** to assist students and staff 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 (the Jeffrey Miller Administration Block) just past the mail boxes on the right as you come in the front entrance. If you want an appointment with the Counsellor you can telephone 646 6473 (with an answering service), or you can arrange to see a counsellor at the Counselling Service on the Main Campus by calling 3512228. If you are on Cumberland Campus, you can also book an appointment directly by writing in a time slot on the door. Printed information of all kinds is freely available in the waiting room for you to browse through or pick up and take away.

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 this 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 and Guild MacLab (computers, printer and scanner)
- S and T Blocks: food and drink vending machines
- U Block (Guild Building): Guild Coffee Shop, Guild Bar, Guild Shop (agent for Australia Post), and subsidised photocopier centre.

Guild Office

Advice on Guild programs and facilities is available at the Office, open daily from 8.30 to mid-evening. Enquiries can be made on (external) telephone number (02) 749 1899, (02) 646 6488, or fax (02) 646 3561. The Guild is the authorised uniform supplier for Schools of Occupational Therapy, Orthoptics and Physiotherapy, and the Faculty of Nursing.

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, 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*, the *Student Guild Diary* and the *Guild Accommodation Directory and Guide*.

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 (Cumberland)** 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 particularly valuable for both international and local students whose first language is not English. Preparatory courses are offered in January-February prior to the start of the academic year. The 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 on tel 646 6631 or 646 6319 (an answering service is provided), or through **Student Welfare Services** on tel 646 6638 or fax 6466635.

Equal Employment Opportunity and Affirmative Action

The University has an EEO Unit and an EEO Management Plan which covers all University staff and a AA Management Plan which covers all University staff and students. EEO and Affirmative Action Policies are designed to prevent discrimination, promote equity, and work in the interests of target groups who have suffered discrimination in the past. Such groups include Aborigines, women, people from non-English speaking backgrounds and people with mental or physical disabilities.

The College has its own EEO and Affirmative Action Advisory Committee which provides a forum for discussion and promotion of these policies.

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 or other source listed below. You may also direct your concerns to senior staff within your School or Department.

Other sources:

Lali Mukerji (Library)	Ph: 646-6431
Wayne Fulford (Continuing Education)	Ph: 646-6227
Mary Stewart (Student Welfare)	Ph: 646-6636
EEO Unit on the Broadway campus	Ph: 351-2212, 351-4545
Student Welfare Services	Ph: 646-6638
Cumberland Student Guild	Ph: 646-6488
SUPRA (Postgraduate association)	Ph: 660-5222

Graduates Association and Alumni

The Graduates Association was established in 1980. The general aims of the Association are to:

- support and advance the character, status and interests of the College/Faculty
- provide meeting opportunities for graduates to maintain or re-establish friendships
- act as a centre for liaison with industry, commerce and community
- assist the College/Faculty to communicate with graduates
- assist in the future development of the College/Faculty and of tertiary education in the health sciences

All graduates of the Faculty of Health Sciences (formerly Cumberland College of Health Sciences), and graduates of the professional schools which together formed Cumberland College, are eligible for membership of this Association and can therefore retain a vital, active and professional link with the College. Further information may be obtained from the Faculty Graduates Association, office tel. 646 6291.

The Faculty's Alumni include all its graduates, ex-staff, ex-students and community friends. Alumni are kept in touch through a newsletter 'Graduate News' and through the Alumni and Graduates Relations Office, which is located in the Secretariat of the Faculty.

All alumni are able to become life members of the Graduate Association on payment of a once-only fee of \$50. Members can:

- borrow from the College Library (free for five years and then enjoy discount rates)
- enjoy a 10% discount on courses offered by the Centre for Continuing Professional Education Unit at Cumberland College
- have the use of tennis courts and oval
- make their voice heard on issues affecting the College
- become eligible for a Graduates Association Grant for 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.

International Student Advisory Service (formerly known as ACOS)

Services for International Students and Visiting Scholars are provided by **Student Welfare Services (Cumberland)** 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 646 6634 or fax 646 6635.

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. 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 646 6631 or 646 6319 (with an answering service) or call **Student Welfare Services** on 646 6638, or send a fax to 646 6635.

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 & T Blocks. Students wishing to use these lockers should contact the Property Services Division.

Lost Property

Property found on campus should be taken to the House Services Manager, Property Services Division. Lost property is held for a period of three months. If unclaimed after two months, it may be claimed by the finder (not including a member of staff). If still unclaimed after a three month period, the 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 four multi-purpose courts for tennis, netball and basketball, and an oval. These facilities can be reserved for use with bookings to be made in one hour increments.

The bookings are to be made no earlier than a week ahead. A hiring fee is charged for tennis court use on weekends, public holidays and when lighting is required. Bookings can be made with the Property Services Division, Jeffrey Miller Administration Building (telephone 646 6678).

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 (Cumberland)** 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.

Services for Students with Disabilities

Students with disabilities or special needs are assisted by **Student Welfare Services (Cumberland)** 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. 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 is 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 646 6638 or fax 646 6635 for a consultation on what special support services are indicated, for information on what is available at present, and for guidance on what the University might be able to provide i.e. what is considered 'reasonable accommodations'. The student can also contact the Welfare and Disabilities Service on the University's Main Campus on 3514558 or fax 5521449 or TTY 3513412. Students will be referred on to the Counselling Service if such assistance is indicated, or they may wish to have a discussion initially with a counsellor by contacting the service directly on 646 6473 (with an answering service and information on Main Campus contact numbers if needed).

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 39 students from outside the greater metropolitan area of Sydney. Further information and details on how to apply will be included with course offers. Places are determined by ballot. For information contact the Residential Supervisor on (02) 646 6405.

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 subscriptions, 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 (Cumberland)** in D Block, tel 646 6638 or fax 646 6635.

Student Welfare Services (Cumberland)

Student Welfare Services, located in D Block, is an administrative division on the Cumberland Campus of the University. It 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 on the Main Campus with the exception of accommodation and casual work which are managed by the Student Guild. Students are invited to seek advice if in doubt about how to proceed, for example, in matters of perceived discrimination, or in relation to how to respond to administrative requirements such as 'Show Cause'. Lecturers are invited to contact this service especially where mediation might be helpful in resolving disputes. 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 tel. 646 6638 and fax 646 6635. 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 July, 1995

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 (MRehab'Clng)
- (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 (MChldAdolHlth)
- (l) Master of Gerontology (MGeront)
- (m) Doctor of Philosophy (PhD).

2. The diplomas and certificates in the Faculty of Health Sciences shall be:

- (a) Diploma of 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 (GradDipRehabClng)
- (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 AdolHlth)
- (j) Graduate Diploma in Gerontology (GradDipGeront)
- (k) Graduate Certificate in Health Science Education (GradCertHlthScEd)
- (l) Graduate Certificate of Applied Science (GradCertAppSc)
- (m) Graduate Certificate of Behavioural Health Science (GradCertBehHlthSc)
- (n) Graduate Certificate of Child and Adolescent Health (GradCertChld AdolHlth)
- (o) Graduate Certificate in Casemix (GradCertCasem)
- (p) Graduate Certificate in Clinical Data Management (GradCertCDM)

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) Medical Radiation Technology
- (e) Occupational Therapy
- (f) Orthoptics
- (g) Physiotherapy
- (h) 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 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 shall meet the requirements prescribed by the Faculty for admission to the honours program and shall complete the subjects as set out in the following tables.

Table A - Diversional Therapy

A.1 - Pass course

Year 1

Introduction to Sociology
 Psychology I
 Sociology of Community and Family
 Biological Sciences I
 Professional Practice I
 Management and Computer Skills
 Theories of Recreation and Leisure
 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 Sport
 Selected Studies: (any six from the following)
 Fitness Appraisal
 Sports First Aid
 Sports, Recreation and the Law
 Health Centre Management
 Improving 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 and Ageing
 Behaviour Modification and Adherence
 Hormones, Metabolism and Exercise*

Year 3

Advanced Topics in Biomechanics
 Exercise Physiology II
 Exercise and Rehabilitation
 Research Methods
 Exercise Testing and Prescription
 Occupational Biomechanics*
 Nutrition and Performance*
 Sports Pharmacology
 Behavioural Elective
 Readings and Conference

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 Essay
Honours Seminar
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 IIA
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
Management Principles II
Medical Science I
Medical Terminology III
Professional Experience II
Computer Applications in Health Care
Database Systems

Year 3

Financial Management in Health Care
Medico-Legal Principles II
Casemix Measurement Systems
Psychology of Work and Management
Sociology of Work and Organisations
Research Project
Management Principles III
Human Resource Management
Medical Science II
Medical Science III
Epidemiology

Professional Experience III
Clinical Classification III
Evaluation of Quality in Health Care

C.2 - Honours Course

Year 1 -As for Pass Course

Year 2 - As for Pass Course

Year 3

Financial Management in Health Care
Casemix Measurement Systems
Psychology of Work and Management
Sociology of Work and Organisations
Research Project
Management Principles III
Human Resource Management
Medical Science II
Medical Science III
Epidemiology
Professional Experience III
Medico-Legal Principles II
Clinical Classification III
Evaluation of Quality in Health Care
Intermediate Statistics

Year4

Research Elective
Research Seminar
Research Thesis
Research Proposal

Table D - Medical Radiation Technology

D.1 - Pass Course

Year 1

Biological Sciences I
Radiation Physics I
Behavioural Science I
Medical Radiations
Clinical Education I

Year2

Biological Sciences II
Behavioural Science II
Radiation Biology and Protection
Sectional Anatomy
Clinical Education II
PLUS
Imaging I
Radiography I
OR
Nuclear Medicine Physics I
Nuclear Medicine I
Instrumentation I
OR
Radiation Therapy I
Tumor Pathology
Radiotherapy Physics I

Year 3

Behavioural Science III
Image Processing
Professional Studies
Clinical Education
PLUS
Sonography

Imaging II
 Radiography II
 Radiographic Pathology II
 Contrast Media
 OR
 Sonography
 Nuclear Medicine II
 Instrumentation II
 OR
 Radiation Therapy II
 Radiotherapy Physics II
 Principles of Oncology

D.2 - Honours Course

Years 1 and 2 -As for Pass Course

Year 3 - As for Pass Course

PLUS
 Research in Medical Radiations

Year4

Honours Workshop
 Research 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 IIA
 Human Occupations IIB
 Components of Occupational Performance IIA

Components of Occupational Performance IIB
 Occupational Therapy Theory and Process IIA
 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
 Applied Biomechanics

Year 3

Human Occupations III
 Components of Occupational Performance III
 Occupational Therapy Theory and Process III
 Fieldwork Education III
 Sociology of Health II
 Health Psychology
 Body Systems II

Year4

Human Occupations IV
 Components of Occupational Performance IV
 Occupational Therapy Theory and Process IV
 Evaluation of Occupational Therapy Programs
 Fieldwork Education IV
 Psychology of Adulthood and Ageing
 Social Psychology
 Sociology Elective
 Applied Physiology

E.2 - Honours Course (4 year full-time)

Year 1 - As for Pass Course

Year 2 - As for Pass Course

Year3

Human Occupations III
 Components of Occupational Performance III
 Occupational Therapy Theory and Process III
 Fieldwork Education III
 Sociology of Health II
 Health Psychology
 Body Systems II
 Honours Research Seminar I
 Honours Proposal Development

Year 4

Human Occupations IV
 Components of Occupational Performance IV
 Occupational Therapy Theory and Process IV
 Evaluation of Occupational Therapy Programs
 Fieldwork Education IV
 Psychology of Adulthood and Ageing
 Social Psychology
 Sociology Elective
 Applied Physiology
 Honours Research Seminar II
 Individual Research Consultation
 Honours Thesis

Table F - Orthoptics**F.1 - Pass Course (4 year full-time)****Year 1**

' Instrumentation I
 Visual Processes
 Binocular Vision
 Disorders of the Visual System LA
 Disorders of the Visual System IB
 Introductory Human Biology
 Introductory Neurobiology
 Optics I
 Body Systems
 Neurobiology I
 Optics II
 Behavioural Science I
 Clinical Studies I

Year2

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

Years

Ocular Motility Disorders I
 Disorders of the Visual System III
 Rehabilitation Studies I
 Instrumentation **in**
 Bio-electrical Signals and Computing
 Embryology and Neuro Plasticity
 Elective
 Clinical Studies III
 Clinical Project

Year A

Ocular Motility Disorders II
 Disorders of the Visual System IV
 Rehabilitation Studies II
 Professional Studies
 Research Project
 Visual Sciences
 Clinical Studies IV
 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 &
 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 IDA
 Clinical Education DIB
 Clinical Education MC
 Health, Medicine & 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 and Statistics II

Year 4

Physiotherapy in Neurology III
 Cardiopulmonary Physiotherapy III
 Musculoskeletal Physiotherapy IV
 Topics in Physiotherapy IV
 Clinical Education EIA
 Clinical Education DIB
 Clinical Education IHC
 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

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
 Honours Research Methods Individual Studies I
 Honours Research Seminar I

Year 4

Advanced Topics
 Professional Development IV: Advanced Issues
 Speech Pathology Clinical III: Child

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

Australian Society and Health
Health Research and Ethics
Health and Human Behaviour I
Biological Sciences I
Rehabilitation Theory I
Vocational Rehabilitation I
Disability Studies I

Year 2

Health Promotion
Epidemiology
Health and Human Behaviour II
Biological Sciences II
Rehabilitation Theory II
Rehabilitation Counselling II
Vocational Rehabilitation II
Disability Studies II

Year 3

Health Planning, Policy and Evaluation
Contemporary Issues in Health, Law and Medicine
Social Research
Biological Sciences III
Special Project
Rehabilitation Counselling III
Vocational Rehabilitation III
Disability Studies III

A.2 - Honours Course

Year 1 and Year 2 - As for Pass Course

Year 3 - As for Pass Course

PLUS
one Research Elective from:
Intermediate Statistics
Multivariate Statistics
Epidemiological Research
Evaluation Research
Qualitative Research Methods
History and Philosophy of Scientific Methodology

Year 4

Honours Workshop
Thesis or Treatise
PLUS
One Research Elective from:
Intermediate Statistics
Multivariate Statistics
Epidemiological Research
Evaluation Research
Qualitative Research Methods
History and Philosophy of Scientific Methodology

Table B - Aboriginal Health and Community Development

B.1 - Pass Course (3 year full-time)

Year 1

Australian Society and Health
Health Research and Ethics
Health and Human Behaviour I
Biological Sciences I
Aboriginal Studies I
Community Development I
Counselling I
Health I
Field Experience I

Year 2

Health Promotion
Epidemiology
Health and Human Behaviour II
Biological Sciences II
Aboriginal Studies II
Community Development II
Counselling II
Health II
Field Experience II

Year3

Health Planning Policy and Evaluation
Contemporary Issues in Health, Law and Medicine
Social Research
Biological Sciences III
Aboriginal Studies III
Community Development III
Counselling III
Health III
Field Experience III

B.2 - Honours Course (4 year full-time)

Year 1 -As for Pass Course

Year 2 -As for Pass Course

Year3

Health Planning Policy and Evaluation
Contemporary Issues in Health, Law and Medicine
Social Research
Biological Sciences III
Aboriginal Studies III
Community Development in
Special Project
Counselling III

Health ID
Field Experience in
Research Elective

Year 4

Honours Workshop
Thesis
Research

B.3 - Pass Course (4 year full-time, block attendance)

Year 1

Australian Society and Health
Health and Human Behaviour I
Biological Sciences I
Aboriginal Studies I
Community Development I
HealthI
Field Experience I

Year2

Health Promotion
Introduction to Health Research and Ethics
Health and Human Behaviour U
Biological Sciences II
Aboriginal Studies II
Counselling I
Field Experience II

Year 3

Epidemiology
Social Research
Aboriginal Studies III
Community Development II
Counselling II
Health II

Year4

Health Planning Policy and Evaluation
Health Research Law and Ethics
Biological Sciences III
Community Development III
Counselling III
Health III
Field Experience III

B.4 - Honours Course (5 year full-time)

Year 1 -As for Pass Course

Year 2-As for Pass Course

Year 3-As for Pass Course

Year4

Health Planning Policy and Evaluation
Health Research Law and Ethics
Biological Sciences III
Community Development III
Counselling III
Health III
Research Elective

Years

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
Occupational Therapy Theory and Process A
Occupational Therapy Theory and Process B
Advanced 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

Year 1

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)

Year 1

Research Methods and Design
Research Methods and Statistics
Sociology Elective
Components of Occupational Performance III
(Cognitive)
Components of Occupational Performance IV
Occupational Therapy Theory & Process IV
Evaluation of Occupational Therapy Program
Elective Subject
Fieldwork Education

D.3 - Physiotherapy - Pass Course -1 year

Year 1

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 DIB
Clinical Education IEC

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 Sciences
- (iv) Health Information Management
- (v) Human Biomedical Sciences
- (vi) Manipulative Physiotherapy
- (vii) Medical Radiation
- (viii) Occupational Health
- (ix) Occupational Therapy
- (x) Orthoptics
- (xi) Physiotherapy
- (xii) Sports Physiotherapy.

(2) The degree of Master of Health Science may be taken in the following subject areas:

- (i) Community Health
- (ii) Gerontology
- (iii) Rehabilitation Counselling
- (iv) Education.

(3) The degree of Master may be taken in the following subject areas:

- (i) Behavioural Health Science
- (ii) Child and Adolescent Health
- (iii) Communication Disorders
- (iv) Community Health
- (v) Health Science Education
- (vi) Gerontology
- (vii) Rehabilitation Counselling.

Eligibility for admission

2. (1) The Faculty, may, on the recommendation of the Head of the Department or School concerned, admit to 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 1

Aboriginal Studies I
Communication Skills I
Community Care I
Community Development I
Counselling I
Drugs and Alcohol I
Emergency Care I
Management Skills I

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

Year 3

Elective Studies
Elective Study Independent Project

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) Occupational Health
- (v) Physiotherapy
- (vi) Sports Physiotherapy

2. A Graduate Diploma may be taken in the following subject areas:

- (i) Behavioural Health Science
- (ii) Child and Adolescent Health
- (iii) Community Health
- (iv) Exercise and Sport Sciences
- (v) Gerontology
- (vi) Health Science Education
- (vii) Rehabilitation Counselling.

3. The Graduate Certificate of Applied Science may be taken in the following subject areas:

- (i) Medical Ultrasonography
- (ii) Occupational Therapy
- (iii) Physiotherapy.

4. A Graduate Certificate may be taken in the following areas:

- (i) Behavioural Health Science
- (ii) Child and Adolescent Health
- (iii) Health Science Education
- (iv) Casemix
- (v) Clinical Data Management

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 postgraduate and honours students. The first set of electives deal with information technology and are taught by the Department of Behavioural Sciences. Each elective counts as 2 units and many will meet for one hour per week for a semester. The second set of electives are 5 unit subjects (roughly two hours per week) and cover a wide range of substantive areas. The third set of electives are related to research methods. These are 8 unit 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 8 unit 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	646 6494
09	School of Health Information Management	T301	646 6494'
10	Department of Behavioural Sciences	G101	646 6228
11	Department of Biomedical Sciences	S134	646 6455
12	School of Communication Disorders	B100	646 6450
14	School of Orthoptics	T321	646 6250
15	School of Occupational Therapy	M501	646 6386
16	School of Physiotherapy	O100	646 6630
18	School of Medical Radiation Technology	M201	646 6640

Information Technology Electives

10578 Introduction to SPSS 2 units

This course is intended for students who would like to use the Statistical Package for Social Sciences (SPSS) for the analysis of research data. Topics covered include basic SPSS commands and syntax, running SPSS on the PC/Vax, setting up and defining research data, simple transformation of data. Procedures covered include descriptive statistics, t tests, analysis of variance, correlation and regression, and crosstabs.

10579 Intermediate SPSS 2 units

Topics covered in the introductory course will be treated in greater depth. In addition, special emphasis will be given to data transformation and selection procedures, importing and exporting data files. Statistical procedures covered include Multivariate Analysis of Variance including repeated measures, Multiple Regression, Factor Analysis, Reliability and Non parametric statistics.

10580 Computer Literacy for the Health Professional 2 units

Students will be introduced to basic computer concepts as well as the operating systems for the PC and VAX systems. This is a hands on course and in addition to being familiar with accessing the PC and the VAX systems, students will learn wordprocessing and database management applications on the PC.

10581 Internet for the Health Professional 2 units

Students will learn what the internet is including basic concepts like transmission control protocol/internet protocol (TCP/IP), the domain name system (DNS), simple mail transfer protocol (SMP) etc. In addition students will have hands on experience accessing the internet and using its facilities such as telenet, ftp, email, archie, usenet, gopher, and world wide web (www). The focus of these experiences are to find the world wide resources available to health professionals in their special areas of interest.

Electives

08432 Independent Investigation I Semester 1 - 5 units

In this elective subject, individual participants can pursue an in-depth study of an educational issue of their choice. The participant will complete a personal learning contract under the supervision of a teacher.

08440 Health Promotion Semester 2 - 5 units

This subject provides an introduction to the principles and processes of major approaches to health promotion.

08441 Program Planning and Evaluation Semester 1 - 5 units

The aim of this subject is to examine factors and elements involved in the process of planning and evaluating community health programs.

09464 Evaluation of Quality in Health Care**Semester 2 - 2 units**

In this subject students are introduced to the concepts of quality in health care and methods of health care evaluation. Topics covered include: structure, process and outcome measures; traditional quality evaluation techniques such as criteria audit, peer review and utilisation review; examination of variations in medical and surgical care; the development and calculation of quality indicators; methods of consumer evaluation of health care. Elements of an effective quality evaluation program and sources of information for use in evaluation are discussed. Industrial approaches to the evaluation of quality adapted for use in health, such as total quality management (TQM) are covered. In addition the evaluation of health care technologies, methods of changing health provider behaviour, health care accreditation and quality evaluation for health information services are included.

10452 Multicultural Issues in Gerontology**Semester 2 * 5 units**

This subject examines what it means to be old in a country whose language, expectations for aged behaviour and types of support available, differ from those of their country of origin. The impact of immigration policy and services provision will be analysed.

10454 Behavioural Aspects of Ageing**Semester 1-5 units**

Cognitive, perceptual, sensory, motor and personality development in later life will be studied in relation to social theories of ageing and typical life events of older people.

10460 Psychosocial Aspects of Sport**Semester 2 - 5 units**

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

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

10463 Social Psychology**Semester 1-5 units**

Focuses on the various elements involved in communications and their application to the field of community nursing.

10517 Abnormal Psychology and Mental Health**5 units**

This elective addresses major psychological disorders and the current classificatory and diagnostic systems available. Critiques of nosologies and taxonomies will be provided and alternative individualised systems of assessment useful for research will be discussed. Detailed consideration of the major philosophical questions underpinning current

approaches to psychotherapy will be encouraged, including such concepts as person, personality, mental illness, theories of the origin of mental illness and treatment approaches. A critical review of ethical and legal dilemmas in the practices of psychotherapy will be highlighted.

10518 Behaviour Modification and Cognitive Behavioural Therapy**Semester 1 and 2 - 5 units**

This elective will cover the basic principles of learning theory and their applications to research in health care settings in conjunction with a theoretical introduction to the use of cognitive behavioural therapy. Students will learn to develop programs based on reinforcement principles, such as operant and classical conditioning, extinction, shaping' maintenance and generalisation of the behaviour, stimulus discrimination training and fading, cognitive behaviour modification and assertiveness training, a behavioural model of somatic disorders and behavioural intervention in rehabilitation.

10519 Biofeedback**5 units**

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

10520 Cognitive Function in Neurological Disorders**5 units**

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

10521 Counselling**Semester 1 and 2 - 5 units**

This elective will cover the major theories of counselling and their applications to health professional practice. Issues related to the role of counselling in the delivery of health care and the ethical and legal implications of a counselling relationship will be addressed. This elective also promotes student self-awareness and exploration of their life histories and interpersonal styles, focusing on the implications of these for relating to and doing research with various client groups.

10522 Critical Thinking**5 units**

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

10523 Cultural Approaches to Disease and Healing and Ethnographic Analysis

Semester 2 - 5 units

This elective promotes cross-cultural analysis of the relationship between culture, social structure and beliefs and practices relating to the management of illness and disease. Systematic analysis is encouraged of a wide range of empirical material addressing cultural approaches to disease and health from both pre-industrial and contemporary western settings. Possible research issues are covered addressing anthropology's early concern with indigenous belief systems and current post-modern concern with the representation of these beliefs, the ecological and epidemiological aspects of disease, and a broad spectrum of theories of disease etiology, diagnosis and therapy. A transcultural perspective analyses the philosophical underpinnings of both traditional and contemporary healing systems, and emphasises similarities and differences from the biomedical perspective, and considers the impact of Western medicine on Third World societies. A political economy approach examines health status and level of health care experienced by different populations, and the potential for research into the social, cultural, economic and political conditions of particular regions to understand their relationship with the world capitalist system.

10524 Health Policy and Social Theory

Semester 2 - 5 units

Contemporary social theorists have noted an increase in the rate of policy change in health services. Students will examine possible research topics concerning the determinants and implications of past and present policy changes in health services.

10525 HIV/AIDS: Health and Social Services

Semester 1-5 units

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

10526 Introduction to Medical Anthropology

Semester 2 - 5 units

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

10527 Occupational Health and Stress

Semester 1 and 2 - 5 units

This elective examines Occupational Health and Safety (OHS) issues within the context of social, economic and political processes and structures. Particular emphases will be placed on OHS as an industrial relations issue, state intervention in OHS policies and the role of the medical and legal professions. Factors which affect occupational performance, experience and satisfaction, health and well-being will be considered, and reference made to studies attempting to explore and modify stress in various organisations, with a view to original research. A range of

research topics concerning work performance are encompassed in this elective: work motivation and satisfaction, occupational stress, and work conditions and practices such as shift work, workspace, layout and design, noise, temperature and air pollution.

10528 Post Trauma Stress

Semester 1 and 2 - 5 units

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

10529 Psychoanalysis, Health, Gender and the Family

Semester 2 - 5 units

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

10530 Qualitative Research Analysis

5 units

Pre-requisite Qualitative Research Methods (10505)

In this subject students will execute a qualitative research project and write a report of the findings. The subject will focus on conceptualization, social context, proposition testing and theory construction. Use of computer programs for the analysis of data will be discussed.

10531 Research Methods for Medical Anthropologists

Semester 2 - 5 units

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

10532 Social Change and Health Services

5 units

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

10533 Social Skills of the Intellectually Disabled

5 units

This elective traces research over the last several decades into social skills instruction designed specifically for the intellectually disabled, but also places it into the wider context of social skills research. Special programs for social skills instruction are critically examined.

10534 Social Theory and Special Groups

5 units

This elective gives students a basic understanding of social theory. As an example of a special group which might be studied, it examines women's health in the context of social class and gender divisions in Australian Society. Students will be encouraged to consider as research issues patterns and concerns regarding the status of women's health using socialist, feminist and psychoanalytic perspectives. Research into particular ethnic groups and multicultural issues are also within the scope of this elective.

10535 Sociology of Gender Relations

5 units

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

10536 Stress and Coping: Social Context and Individual Differences

Semester 2 - 5 units

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

10537 Stress and Disability

Semester 1 and 2 - 5 units

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

10538 Stress and Illness: Management Issues

5 units

The nature of the relationship of the psychophysiological stress response and the development of illness will be explored and critically evaluated in this elective. A range of disorders will be considered, for example headaches, coronary heart disease and diabetes. Current research literature across a variety of relevant disciplines will be evaluated as a background to original research. An introduction to the theoretical and practical aspects of a range of stress management techniques is provided.

Emphasis will be placed on the research utility of those techniques commonly included in stress-management 'packages', such as relaxation, biofeedback, cognitive restructuring and time management.

10539 Stress: Performance, Psychophysiology, and Exceptional Events

5 units

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

10540. Visualisation and Imagery

Semester 1 and 2 - 5 units

This elective examines a range of techniques of visualisation and imagery that have been used for purposes of healing and performance enhancement. The research literature is reviewed to pinpoint the effects and the effectiveness of the applications, and explores the development of skill in their use.

10553 Computing for Health Practitioners

Semester 1 and 2 - 5 units

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

10557 Violence Against Children and Adolescents - in context

Semester 1-5 units

Effective intervention into violence against children and adolescents requires an awareness and understanding of the nature and extent of this crime, together with a knowledge of the impact of such violence on all involved: victims/

survivors, families, perpetrators and professionals working in the area. Course content will include discussion of the nature and extent of abuse (physical, neglect, sexual, external and systems abuse), theoretical approaches and models which attempt to explain such abuse and a critical examination of attitudes and beliefs about victimisation of children and adolescents. The subject will also examine the Criminal Justice Response to child abuse, including police involvement and related legal issues such as reliability and credibility of children's evidence. Characteristics of perpetrators, child pornography, and prostitution will also be discussed, as will child protection programs and the burden of care falling to the professionals working in the area. This subject will adopt an interdisciplinary approach with an applied focus and will involve input from various agencies such as the police, D.P.P. and other community agencies and service providers [DCS].

10558 Contemporary Issues in Childhood and Adolescence

Semester 1-5 units

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

10559 Therapy with Children, Adolescents and their Families

5 units

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

10560 Child and Adolescent Assessment: Psychosocial and Legal Issues

Semester 1 - 5 units

This subject covers age-appropriate assessment techniques from a variety of perspectives and introduces multi-modal forms of assessment such as paper and pencil tests and symbolic play-based measures. A background understanding of Piagetian theory will be introduced in so far as it pertains to these age-specific assessment issues. Ways of resolving the tension between achieving psychologically valid and reliable evidence from children and the (often conflicting) requirements of legally valid and reliable testimonies will be canvassed, with special emphasis on children as witnesses and the problem of children's evidence. Care will be taken to ensure that the assessment

process does not constitute a further victimisation of child and adolescent sexual and physical abuse victims. Case study methods will be among material used for this subject and skills will be developed in the writing of reports to prepare students for the possible role of expert witness on behalf of the child and/or adolescent.

10561 Young People and Social Control in Australia

5 units

This subject examines how the 'space' occupied by young people in Australia has been subject to even greater social control in recent years. Under the banners of 'skill formation' and 'law and order', Government policies have been directed at curbing the autonomous activities of young working class men and women and enforcing particular kinds of conforming behaviour. Any attempts by young people to win for themselves more freedom of movement and action have been met with concerted effort to tighten control.

10562 The Sociology of Deviance

Semester 1 - 5 units

This subject will use the paradigms developed by the theoretical approach to the sociology of deviance to examine adolescent behaviour in relation to substance abuse, homelessness and other non-traditional lifestyles. This subject will incorporate an historical approach to community breakdown, social control, the effects of media imagery and the changing approaches of social control agents such as governments, the legal system, law enforcement officers and medical personnel. An analysis of legislation and of royal commission findings will be made using structural and interactional theories.

10563 Sociology of Community and Family

Semester 1 and 2 - 5 units

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

10564 Psychology of Child Development and Adjustment

5 units

Biological factors, sociocultural expectations, life experiences, personal choices and chance events all contribute to the process of human development. This subject addresses theoretical and applied perspectives related to the study of child development and adjustment. The period of pregnancy (genetic and biological influences)

and prenatal development are discussed together with psychosocial factors associated with pregnancy and the birth process. The period of infancy and childhood is examined and topics such as sensory, motor, cognitive and moral development are explored with reference to the effects of variation in attachment, class and culture. The development and function of play and its importance are highlighted together with social and emotional development including; sex role development, friendship patterns and self-esteem and one's self-concept.

10565 Psychology of Adolescent Development and Adjustment

Semester 1 and 2 • 5 units

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

10566 Subcultural and Cross Cultural Issues: The Costs of Marginality

5 units

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

10567 Health and Cultural Pluralism

5 units

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

10568 HIV/AIDS: Health and Social Services

5 units

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

11433 Health, Dysfunction and Ageing

Semester 1 or 2-5 units

This subject aims to provide an understanding of the factors responsible for the increased prevalence with age of certain diseases and impairments, especially those with a tendency to become disabling and a handicap. Particular attention is paid to the contribution of environmental factors to the development of these conditions and to the ways in which such disorders may be prevented from leading to further disability. The subject also provides for in-depth study of a specific aspect of individual student interest.

11453 Physical Interface Specialisations

Semester 2 - 5 units

This subject builds on the groundwork of Introduction to Ergonomics and Physical Interface in Ergonomics. The purpose of this subject is to develop skills and knowledge in a selected number of areas of specialisation in ergonomics. The skills include specific analysis of the workplace environment, use of appropriate measurement techniques and problem solving based on recent developments in the pertinent knowledge base of specific topic areas such as industrial design and physical comfort.

11468 Mechanics of Human Movement

Semester 1 - 8 units

This subject will provide biomechanical concepts and skills required for the analysis of human movement. Principles of kinematics, kinetics and electromyography in dynamic muscle movements, and mechanical energy distribution will be studied with reference to selected motor activities. Laboratory sessions will be used to provide illustrations of the above principles and to give students experience with biomechanical laboratory techniques. This subject is only open to graduates who have studied biomechanics previously, and is only available to students enrolled in the Graduate Diploma or Masters of Applied Science in Sports Physiotherapy, Occupational Health, or Paediatric Physiotherapy.

11469 Occupational Biomechanics

Semester 1-5 units

This subject aims to assess skills in assessment, implementation and evaluation of the physical interface of an occupational setting. The purpose of this subject is to develop skills and knowledge in a selected number of areas of specialisation in ergonomics.

Research Electives

Undergraduate students to select subject number in hours.
Postgraduate students to select subject number in units.

Epidemiological Research

08501 Semester 2 - 42 hours

08564 Semester 2 - 8 units

Contact: Dr K Brock (Ph: 646 6124)

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.

Evaluation Research

08502 Semester 1 - 42 hours

08561 Semester 1-8 units

Contact Mr Freidoon Khavarpour (Ph: 646 6127)

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.

Issues in Educational Research

08516 (Semester of offering to be determined) - 8 units

Contact Ms Fran Everingham (Ph: 646 6116)

Victoria Neville (Ph: 646 6118)

(for Health Science Education students only)

This subject explores issues in educational research, including using theories and conceptual frameworks to help deal with multiple dimensions of the educational process, and considers some of the methodologies used in educational research.

Research Elective Independent Study

08517 (Semester of offering to be determined) - 8 units

Contact Ms Fran Everingham (Ph: 646 6116)

Victoria Neville (Ph: 646 6118)

(for Health Science Education students only)

This subject will function as an independent study program. As with other research elective subjects, it allows students to pursue an area of study related to the development of knowledge and skills in a specific area of research methodology in preparation for their research thesis. Students will enrol in this subject if the research methods they wish to study are not covered to the extent required in other research electives.

History and Philosophy of Scientific Methodology

08503 Semester 1 and 2 - 42 hours

08562 Semester 1 and 2 - 8 units

Contact: Rod Rothwell (Ph: 646 6122)

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.

Action Research

08560 Semester 2 - 42 hours

08563 Semester 2 - 8 units

Contact: Ian Hughes (Ph: 646 6110)

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.

Epidemiology

09468 Semester 2 - 8 units

Contact Johanna Westbrook (Ph: 646 6558)

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.

Casemix Measurement Systems

09469 Semester 2 - 8 units

Contact Joanne Callen (Ph: 646 6493)

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 also be explored.

Intermediate Statistics

10503 Semester 1 and 2 - 42 hours

10571 Semester 1 and 2 - 8 units

Contact Dr D McIlwain (Ph: 646 6404)

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.

Multivariate Statistics

10504 Semester -42 hours

10573 Semester -8 units

Contact Dr P Choo (Ph: 646 6583)

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.

Qualitative Research Methods

10505 Semester 1 and 2 - 42 hours

10572 Semester 1 and 2 - 8 units

Contact Dr G Sullivan (Ph: 646 6588)

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.

Survey Research Methods

10514 Semester 2 - 42 hours

10574 Semester 2 - 8 units

Contact: Dr G Sullivan (Ph: 646 6588)

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.

Developing a Research Project

10551 Semester 1 - 42 hours

10575 Semester 1 - 8 units

Contact: Dr G Sullivan (Ph: 646 6588)*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.

Group and Single Case Experimental Research in**Clinical Settings**

10552 Semester - 42 hours

10576 Semester - 8 units

Contact: Dr Lynn Harris (Ph: 646 6162)

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.

Biological Measurement and Analysis

11501 Semester 2 - 42 hours

11512 Semester 2 - 8 units

Contact: Dr R Smith (Ph: 646 6462)

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.

Single System Research Design and Evaluation**Methods**

15464 Semester 2 - 42 hours

15501 Semester 2 - 8 units

Contact: Ms Judy Ranka (Ph: 646 6207)

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.

Research Design and Methods for Therapists

15479 Semester 1 - 42 hours

15502 Semester 1 - 8 units

Contact: Ms Judy Ranka (Ph: 646 6207)

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.

Research Elective Independent Study

16505 Semester - 8 units

Contact Dr Sharon Kilbreath (Ph: 646 6272)

(For Physiotherapy Research students only)

This subject will function as an independent study program. As with other research elective subjects, it allows students to pursue an area of study related to the development of knowledge and skills in a specific area of research methods in preparation for their thesis.

164D8 Scientific Investigation C**Contact Dr Sharon Kilbreath (Ph: 646 6272)***Semesters 1 and 2 - 8 units*

Scientific Investigation C is intended for students enrolled in the Master of Applied Science (Physiotherapy) degree and requires the student to complete 42 hours of content from within the subjects 16508 Scientific Investigation I and 16512 Scientific Investigation II as negotiated with the Masters Coursework Program's Coordinator.

Index

A

Aboriginal & Torres Strait Islander Admission Scheme, 3-2
Aboriginal Health and Community Development,
 Diploma, 8-2
 Bachelor, 8-6
Aboriginal Health Science • Preparatory Program, 8-41
Aboriginal Health Science Support Program, 8-39
Abstudy, 3-6
Academic Governance, 2-2
Academic Year, iii
Access to Buildings, 16-14
Accommodation, 17-4
Admission Requirements, 3-1
Advanced Standing
 See Credit Transfer
Advisory Centre for Overseas Students, 17-3
Agreements,
 Inter-Institutional, 2-3
Alcusal Prize for Research, 3-5
Appendix 1, A-1
Applications,
 Late, 16-5
Attendance at Classes, 16-14
Audiology Clinic, 7-1
Australian Physiotherapy Association Prize, 3-5
Austudy, 3-6
Awards and Prizes, 3-5
Awards, Prizes and Scholarships, 4-5
 Clinical Supervisory positions, 4-5
 Postgraduate Awards, 4-5
 Research Assistanfship, 4-6
 Scholarships, 4-6

B

Behavioural Sciences,
 Department of, 5-1
 Summary, 5-1
Biomedical Sciences,
 Department of, 6-1
 Summary, 6-1
Bookshop, 17-1
Broadway Scheme, 3-2
Butterworth-Heinemann
 Treatise Prize, 4-5
Butterworth-Heinemann
 Thesis Prize, 4-5

C

Centres, 2-2
 Cumberland Health
 and Research, 2-2
 Rehabilitation Research, 2-2
 WHO Collaborating, 2-3
Change of Address, 16-14
Childcare, 17-1

Ciba-Geigy Prize, 3-6
Clinical Education,
 Arrangement, 15-1
 Assessment of Students, 15-1
Aboriginal Health and Community Development, 8-43
Health Information Management,
 (Dates), 9-14
Medical Radiation Technology
 (Dates), 10-10
Medical Radiation Technology
 (Degree), 10-9
Occupational Therapy Fieldwork,
 11-27
Orthoptics, 12-8
Physiotherapy, 13-32
Rehabilitation Counselling, 8-43
Rules Applying to, 15-1
Speech Pathology, 7-12
Clinics,
 Audiology, 7-1
 Stuttering Research and Treatment,
 7-1
College Library, 17-1
Communicable Diseases, 15-2
Communication Disorders,
 School of, 8-1
Community Health,
 School of, 8-1
Conduct, 16-13
Correspondence, 16-14
Counselling Service, 17-1
Course Work, 16-14
Credit Transfer, 16-5
Credit Union Facilities, 17-1
Cumberland Health
and Research Centre, 2-2
Cumberland Stuttering Research
and Treatment Clinic, 7-1

D

Degree of Master, 4-1
 Applications, 4-1
 Course Requirements, 4-2
 Examination of Thesis, 4-4
 Registration, 4-2
 Research Thesis, 4-3
Disabled Students, 3-2
Discontinuation of Studies, 16-8
Discrimination Advisors, 17-2
Diversional Therapy Association
Prize, 3-5
Diversional Therapy,
 Bachelor, 11-2
Doctor of Philosophy, 4-1

E

Enquiries and Applications, 16-1
 Universities Admissions Centre,
 16-1
Equal Employment Opportunity, 17-2

Examinations and Assessments, 16T9
 Approved Assessment Periods, 16-9
 Attendance at Assessments, 16-9
 Illness or Misadventure, 16-10
 Rules of Conduct of Written
 Examinations, 16-10

F

Failure to Meet Financial
Liabilities, 16-5
Fees and Charges, 16-4
 Refund of Fees, 16-5
Fieldwork,
 See Clinical Education
Financial Assistance, 3-6

G

Grades, 16-12
Graduate Courses,
 Summary, 4-6
Graduates Association
and Alumni, 17-3
Graduation with Distinction, 16-12
Grievance Advisers
 See Discrimination Advisors

H

HECS, 16-4
Health Information Management,
 School of, 9-1
Hilda Roberts Memorial Prize, 3-5
History, 2-1
Honours Programs, 3-4
 Communication Disorders, 7-9
 Community Health, 8-8
 Health Information Management,
 9-7
 Medical Radiation Technology, 10-7
 Occupational Therapy, 11-13
 Orthoptics, 12-6
 Physiotherapy, 13-9
 Speech Pathology, 7-9
Honours Thesis, 3-5
Hours,
 Credit Union, 17-1
 Library, 17-1

I

Insurance, 16-14
Inter-Institutional Agreements, 2-3
International Students, 16-5

J

Jillian Salter Memorial Prize, 3-5

K

Knowledge Expected of Students, 3-3

L

Laboratories,
 Speech Motor Control, 7-1
 Speech Science, 7-1
Late Fees
 See Failure to Meet Financial
 Liabilities
Leave of Absence, 16-9
Library, 17-1
Loans, 3-6
Lockers, 17-3
Lost Property, 17-3

M

Master's
 Advisory Committee, 4-3
 Discontinuation of Registration, 4-3
 Fieldwork and Supervision, 4-3
 Progress Reports, 4-3
 Requirements, 4-2
 Research Subject, 4-3
 Thesis, 4-3
Mature Age Admission, 3-2
Medical Radiation Technology,
 School of, 10-1
 Bachelor, 10-5
 Honours Program, 10-9
Met-a-Lite Prize, 3-5
Murray F. Allan Award, 3-5

N

Notification of Results, 16-11
NSW Branch-Aust Assoc of Speech
& Hearing Prize, 3-5
NSW Occupational Therapists'
Prize, 3-5

O

Occupational Therapy,
 School of, 11-1
Official Notices, 16-14
Orthoptics,
 School of, 12-1
Overseas Qualification, 3-1

P

Parking, 17-3
Patricia Lance /John Pockley Prize, 3-6
Payment,
 Deferred, 16-4
 Extension of Time for Payment, 16-5
 Up-Front, 16-4
Physiotherapy,
 School of, 13-1
Private Speech Pathologists'
Association of N.S.W. Prize, 3-5
Private Speech Pathologists'
Association of N.S.W.
 Master's Thesis Prize, 4-5
Prizes and Awards, 3-5
Professional Experience
 See Clinical Education
Progression and Exclusion, 16-13
 See Show Cause

R

Radiography,
 Diagnostic Radiographer, 10-1
 Medical Sonographer, 10-1
 Nuclear Medicine Technologist, 10-1
 Radiation Therapist, 10-1
Registration and Enrolment, 16-1
 Confirmation of Enrolment, 16-3
 Deferment of Enrolment, 16-1
 Enrolment of New Students, 16-2
 Re-enrolment, 16-3
Rehabilitation Research Centre, 2-2

S

Senate Resolutions, 18-1
Show Cause, 16-13
J. Val Simpson Memorial Prize, 3-5
Special Leave, 16-9
Sporting Facilities, 17-3
Staff,
 Administration, 1-4 «
 Centres, 1-4
 Faculty, 1-1
Student Accommodation, 17-4
Student Identity Card, 16-3
Student Records, 16-14 -
Student Guild, 17-1
 Facilities, 17-2
 Guild Office, 17-2
 Student Representation, 17-2
 Student Resources and Support
 Services, 17-2
Subject Numbering System,
 Explanation, 3-6,4-5

T

Thesis, 3-5
Travel Concessions, 17-4

U

Undergraduate Courses,
 Summary, 3-7
Uniforms,
 Diversional Therapy, 11-27
 Health Information
 Management, 9-14
 Medical Radiation Technology,
 10-10
 Occupational Therapy, 11-27
 Orthoptics, 11-8
 Physiotherapy, 13-32
Universities Admissions Centre, 16-1

V

Variation of Course, 16-8

W

WHO Collaborating Centre, 2-3
Rosemary E. Wilson Memorial
Prize, 3-6