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

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

The information contained in this Undergraduate Handbook was current as at November 1998. Its contents are as accurate and detailed as possible at that time.

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ISSN: 1327-8681

Produced by Faculty Office, Faculty of Health Sciences

Printed in Australia by
Printing Headquarters, Broadway.
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Introduction

This Undergraduate Handbook is the official guide to the undergraduate courses offered in Faculty of Health Sciences located at the Cumberland campus of the University of Sydney. The Handbook was prepared in advance of the 1999 academic year to maximise its usefulness as a reference to students, staff, and to the many associates of the Faculty, particularly those who contribute to the clinical education of students. The charter of the Faculty is to provide competent practitioners in the health professions. The aims are for excellence in clinical and academic teaching and in research.

The fields encompassed by the Faculty are:

- Aboriginal Health and Community Development
- Behavioural Sciences
- Biomedical Sciences
- Casemix
- Child and Adolescent Health
- Clinical Data Management
- Community Health
- Diagnostic Radiography
- Exercise and Sport Science
- Gerontology
- Health Information Management
- Health Science Education
- Hearing and Speech
- Indigenous Community Health
- Leisure and Health (previously Diversional Therapy)
- Medical Radiation Sciences
- Nuclear Medicine Technology
- Occupational Therapy
- Orthoptics
- Physiotherapy
- Radiation Therapy
- Rehabilitation Counselling
- Speech Pathology
- Sonography
- Vision Impairment
Welcome to the Faculty of Health Sciences! Whether you are a new undergraduate or returning to build on previous success, we hope that 1999 will be an important milestone towards your chosen career in the health sciences.

As an undergraduate student, you will have a number of competing priorities, all of which have their part to play in the development of your full potential as an individual. First and foremost, you have the opportunity through academic study to become a highly valued contributor in the health science professions. The academic staff of our faculty are leaders in their field and their expertise in teaching and research is much sought after both nationally and internationally. You are fortunate to be part of a stimulating and dynamic learning environment which will provide you with an excellent start to your career. As well as this academic focus, we hope you will take advantage of the opportunity to make life-long friendships with the people you meet along the way. Schools and Departments and the Student Guild arrange social, cultural and sporting activities and your time in the Faculty will be much richer if you are able to fit some of these activities into your busy schedule.

The Faculty continually reviews and improves the range of courses offered to meet the need and interest of students and the expanding field of health. The Faculty is pleased to offer two new undergraduate courses in 1999. They are the Bachelor of Behavioural Health Science and the Bachelor of Health Science (Hearing and Speech).

Faculty of Health Sciences staff are committed to assisting you through your academic program. If you are facing a particular difficulty that is affecting your progress, we would encourage you to take advantage of the wealth of support available to all beginning and established students in the faculty. This includes the professional advice of academic staff in your School/Department, the Student Welfare Division, Student Administration Division and the Student Guild. Additionally, for Aboriginal and Torres Strait Islander students, a range of dedicated support services is provided by the staff of Yooroong Garang, our Centre for Indigenous Health Studies.

Best wishes in your academic, professional and personal journey through 1999.

[Signature]

Professor Hal Kendig
Dean
1999 Academic Year and Important Dates

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
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<td>1 January</td>
<td>New Year's Day</td>
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<td>(Semester 1)</td>
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<tr>
<td>31 March</td>
<td>Last day to finalise enrolment/re-enrolment and to apply for Variation of Enrolment, Leave of Absence, Discontinuation of Studies or Course Transfer for March Semester Census Date</td>
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<tr>
<td></td>
<td>Last day to request Discontinuation from March Semester subjects without failure</td>
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<td>March Semester Census Date for Higher Education Contribution Scheme</td>
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<td>Last day to pay August Semester course fees or HECS</td>
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<tr>
<td>31 August</td>
<td>Last day to apply for Variation of Enrolment, Leave of Absence, Discontinuation of Studies or Course Transfer for August Semester Census Date</td>
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<td>Last day to request Discontinuation from full-year and/or August Semester subjects without failure</td>
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<tr>
<td></td>
<td>August Semester Census Date for Higher Education Contribution Scheme</td>
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<td>31 August</td>
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<tr>
<td>24 September</td>
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<td>Assessment Period</td>
<td>22 November - 3 December</td>
</tr>
<tr>
<td>Christmas Recess</td>
<td>4 December 1999 - 25 February, 2000</td>
</tr>
</tbody>
</table>
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Diane M. Eager, BioTech, HCert, S.T.C

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Sally M. Mackay, AssocDip, HlthSc, Path.Tech., S.T.C

Dean Williams, Dip( Graphic Design)

Associate Lecturers
Susan Page, BA, Adel, PhD, U.N.S.W.

Lecturers
Angela Dawson, BA, Cant, MA, Lond.
Sally Farrington, BSc, MHPEd, LJ.N.S.W, GradDipPt, Cumb.
Bruno A. Gelonesi, MA, Macq, GradDipEd, St, Nepean, C.A.E.
John Grootjans, BSc, Cumb, MSc, W’Syd, DipEd, RN
John Maskall, BA, Deakin, BEd, JUC, GradDip(Arts), MEd, S.Aust.
Freidoon A. Khavarpour, BA, Pahlavi, MA, PhD, Mich.
Shane Merritt, BA, N.E. MA, (Psych)

Associate Lecturers
Alison Craigie-Huggins, BA, Deakin
John Parsons, BA, (Ed), Deakin
Shayne Williams, BEd(AdultEd), UTS

Research Fellow
Kristie D. DiGregorio, BA, Trinity, M(Ed), PhD, Northwestern

Technical Staff
Dean Williams, Dip( Graphic Design)

Administrative Staff
Christine Yorkston

School of Exercise and Sport Science

Head of School
Associate Professor Martin W. Thompson, MSc, Lough, PhD, Lond, DipPE, TSTC, Melb, AdvDipPE, Leeds

John Sutton Chair of Exercise and Sport Science
Maria Fiatarone Singh, MD, Caliiff.

Senior Lecturers
John R. Brotherhood, MBBS, Lond.
Chin M. Chow, MSc, Otago, PhD
Richard M. Smith, BSc, U.N.S.W, MSc, Macq, MEd, Man, MA, Macq, PhD, W’gong, DipEd
Margaret Torode, BAppSc, PIT, MSc, PhD, Oregon, DipTeach, GTC

Lecturers
Wendy L. Gilles, BAppSc(Biomed), N.S.W.I.T, MSc, W’gong
Thomas II. Winn, BAppSc, Cumb, BSc
Nicholas P. Linthorne BSc, Old, PhD, W’Aust.
Helen T. O’Connor, BSc, U.N.S.W, DipN.D.
Rhonda Orr, BSc, MEd, SpSc
Peter J. Sinclair, BPE, MEd, W’Aust.

Associate Lecturers
Doric A. Swain, BE, UTS

Honorary Research Fellows
Grace J. Bryant, GradDipEx & SpSc, Cumb, MBBS
Grahame M. Budd, MBBS, MD, FRACP
Barry V. Holcombe, PhD, U.N.S.W.

Technical Staff
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Rhonda Orr, BSc, MEd, SpSc
Peter J. Sinclair, BPE, MEd, W’Aust.

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Bruno A. Gelonesi, MA, Macq, GradDipEd, St, Nepean, C.A.E.
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John Parsons, BA, (Ed), Deakin
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Research Fellow
Kristie D. DiGregorio, BA, Trinity, M(Ed), PhD, Northwestern

Technical Staff
Dean Williams, Dip( Graphic Design)

Administrative Staff
Christine Yorkston

School of Exercise and Sport Science
School of Health Information Management

**Head of School**
Professor Beth Reid, BA Macq. MHA PhD U.N.S.W. Appointed 1996

**Senior Lecturer**
Johanna Westbrook, BAppSc(MRA) Cumb. MHA GradDip App Epid U.N.S.W.

**Lecturers**
Joanne Callen, BA DipEd U.N.S.W.
Vera Dimitropoulos, BAppSc(MRA) Cumb.
Angelika Lange, Dipl. Psych. MA(InfSc) F.U. Berl.
Tina Magennis, BAppSc(HTM) Cumb. MHA U.N.S.W. Grad Cert(HlthScEd)
Ralph La Telia, BAppSc(HlthScEd) Cumb.

School of Medical Radiation Technology

**Head of School**
Alastair Davison, BSc PhD Melb.

**Senior Lecturers**
Jenny Cox, BA Macq. ARMITT
Ingrid Egan, BSc Macq. MSc U.T.S. Dip Teach S.C.A.E. AssDip Med Rad S.T.C.

**Lecturers**
Edwina Adams, CertNucMed S.T.C. BAppSc
Leigh Ainley, BA N.E. Cert Rad S.T.C.
John Atyeo, BA U.T.S. AssDip Rad Tech S.A.I.T. MHLthScEd
Sandra Blomfield, AssDip App Phys R.M.LT. BAppSc
Edward Caruana, BAppSc Cumb. AssDip Med Rad S.T.C.
BAppSc Med RN FCN FIR
Jill Clarke, DipAppSc Grad DipAppSc R.M.LT. DMU A.S.U.M. BAppSc
Barrie Egerton, MSc Salf. BSc Wales
Jane Fonda, CertRad R.M.LT. DMU ASLZM BAppSc
Peter Kench, BAppSc Grad Cert Hlth Sc Ed
Elisabeth Kilburn-Watt, BSc BA Tor. MA Macq.
Joanne Murray, Grad Cert Hlth Sc Ed DMUA S.L.J.M. BAppSc
Marianne Rinks, BEd U.T.S. Cert Rad S.T.C.
John Robinson, Cert Rad S.T.C. BAppSc
Samir Sarkar, MSc Dacca PhD Kanazawa.
Natalka Suchowerska, BSc Aston MA App Sc U.T.S

Associate Lecturers
Jocelyn Barnes, BAppSc Grad Cert Hlth Sc Ed

School of Occupational and Leisure Studies

**Head of School**
Associate Professor Gwynnnyth M. Llewellyn, BA Med Dip Cont Ed N.E. Dip OT PhD

**Associate Professor**
Colleen Mullavey-O’Byrne, MA Macq. DipOT ATCL

**Senior Lecturers**
Alan Bowen-James, BA A.N.U MBBS U.N.S.W BA(Phil) Lond, MA(Comms) Murd MCoGSc U.N.S.W. WMB Env U.T.S MSc Curtin MInf Tech Wgong PhD A.N.U U.M Phil M Juris
Christine J. Chapparo, MA Macq. DipOT, OTR FAOTA
Maureen IL. Fitzgerald, BIS G.M.U. PhD Hawaii RN
Jane E. Gamble, BAppSc(CteclTher) Lmcz MHNPEd U.N.S.W.

**Lecturers**
Dr O. Beltran, BSOT MA U.P., OTRP
Catherine E. Bridge, BAppSc Cumb. MCoG Sc UNSW
Philip W. Chan, MA MAppSc Curtin Dip OT TDip COT Brit. RN

**Lecturers**
Lindy Clemson, BAppSc WAIT Dip OT U.N.S.W. MApp Sc
Harold E. Davey, BA BEd Melb. MA (Educ) Lond.
Michelle Donelly, BAppSc Cumb. MA Macq.
Susan D. Griffin, BAppSc (OT) Cumb. MA (Hons) U.N.S.W.
PhD W'gong Grad Dip (App Beh Sc) Cumb.
Anne M. Hillman, BAppSc (OT) WAIT
J01 Hummell, MA Macq. Dip OT

**Lecturers**
Eveline J. Innes, BAppSc (OT) W.A.I.T. MHNPEd U.N.S.W.
Gabrielle A. Koop, MA Macq. Teach Cert Sydney
Fiona R. Li, BAppSc Cumb. MHlthScEd
Peta J. Mudge, Assoc Dip AppSc (DT) Cumb. MHNPEd Cumb ATCL

**Lecturers**
Brett O'Neill, BAppSc Cumb. MA Macq. DipRM
Judy L. Ranka, BSc (OT) W.Mich. MA Macq. OTR
Ruth Sugden, BOccThy Qld, SROT (UK) AIGA

**Lecturers**
Grad Dip (Couple Therapy) AIRS
Robyn L. Twible, MA Macq. Dip OT

**Associate Lecturers**
Marjolien Dilben, Dip OT York MHlth Sc Ed
Mironne Golan, BApp Sc Cumb.
Regina Osten, BAppSc Cumb.
Jacqueline Quirke, Assoc Dip (OT) MCommHlth

**Special Projects Officer**
Cheryl Bates, Dip Teach (Nursing) S.C.A.E. RN CM

School of Physiotherapy

**Head of School**
Elfreda D. Marshall, BAppSc Lincoln Grad Dip Paed Phty Cumb. MPH

**Professor**
Professor Joy Higgs, BSc MHPEd PhD U.N.S.W Grad Dip Phty Cumb.
Appointed 1994

**Associate Professors**
Jack Crosbie, MSc PhD Strath Grad Dip Phys Glas. Dip TP Edin.
Nicholas O'Dwyer, BA Dublin MA U.Coll. Dublin PhD U.N.S.W.
Honorary Associates
Robert B. Shepherd, MA EdD Col. DipPhty, FACP
Janet H. Carr, MA EdD Col, DipPhty, FACP

Senior Lecturers
Louise M. Ada, BSc PhD U.N.S.W. MA Col GradDipPhty Cumb.
Roger Adams, BA Adel. PhD U.N.S.W.
Jennifer Alison, DipPhty MSc Lond.
David Beard, MSc Lond. DPhil Ox. GradDipPhys Nott.
Elizabeth R. Ellis, BSc U.N.S.W. MSc Boston GradDipPhty Cumb. PhD
Elizabeth C. Henley, BSc Mus. BPT Mcg. MCISc W.Ont.
Sharon L. Kilbreath, BSPT Qt. MCISc W.Ont. PhD U.N.S.W.
Raymond Lee, MPhil II.K. Poly. PhD Strathclyde
Christopher Maher, BAppSc GradAppSc(ManipPhty) GradDipAppSc(ExSS) Cumb. PhD

Lecturers
Kerry G. Baker, BAppSc(Phty) Curtin, PhD(Anatomy) U.N.S.W. DipPhty ATT
Robert A. Boland, BAppSc GradDipAppSc(ManipTher) Cumb.
Ruth A.C. Bridger, DipPhty MHSEd
GradDipAppSc(PaedPhty) Cumb.
Colleen G. Canning, BPhy Qld MA Col.
Cathy Dean, BAppSc Cumb. MA Col. PhD
Virginia Fowler, BAppSc Lincoln MAppSc(Phty)
Carolyn Gates, MAppSc(Phty)
Robert D. Herbert, BAppSc MAppSc(Phty)
Cheryl Hobbs, MAppSc S.Aust. DipP&OT Tor.
GradDipMgtHlthSciences S.Aust.
Adrienne E. Hunt, MBiomedE U.N.S.W. GradDipPaedPhty Cumb.
Gwenda F. Lansbury, BAppSc Lincoln BA Monash MCH U.N.S.W.
Dale Larsen, BAppSc GradDipManipTher Cumb. MAppSc(ManipPhty)
Jane Latimer, BAppSc GradDipManipTher Cumb. MAppSc(ManipPhty)
Martin Mackey, BAppSc Cumb. MSatSc U.N.S.W. BSc
Lyndal Maxwell, BAppSc(Phty) Lincoln GradDipAppSc(Cardiothoracic) LaT. MAppSc(Phty)
Bredge McCaren, BSc U.N.S.W. GradDipPhty Cumb. GradDipAppSc(Cardiothoracic) LaT. MAppSc(Phty)
Grant McCormick, DipPhty GradDipManipTher Cumb.
MHSEd
Eva Schoenstei, BAppSc Cumb. MHPed U.N.S.W.
Debra Shirley, BSc U.N.S.W. GradDipPhty GradDipManipTher Cumb.
Karyn Whelan, BAppSc(Phty) Cumb. MAppSc(Phty)
Vicki K. Williams, BAppSc Cumb. MedU.N.S.W.

Associate Lecturers
Genny Dwyer, BAppSc (Phty) Cumb GradCert(AdultEd)
N.E. GradDipAppSc(PaedPhty-Hydro) Cumb MAppSc(Phty)
Joanne Munn, BAppSc(Phty)
Mark Stewart, BAppSc (Phty)

Academic Program Administrator
Ayanthi Salgado, LLB Sri Lanka MA(Int.Rel) Dip(Int Aff)

Centres
Australian Stuttering Research Centre
Director
Associate Professor Mark Onslow, MAppSc Cumb. PhD

National Voice Centre
Director
Associate Professor Pamela J. Davis, LACST PhD U.N.S.W. W.ont.
Senior Lecturer
Dr William Thorpe, BE EE, PhD Cant.
Director, Community Access Program
Director
Associate Professor Pamela J. Davis, LACST PhD U.N.S.W. W.ont.
Senior Lecturer
Rosemary Jones, BSc Cardiff PhD Birm.
Research Fellow
Sharon Bent, BAppSc W‘gong MPsc(MAppSc) U.N.S.W. MAPsS

Cumberland Health and Research Centre
Acting Director
Sharon Bent, BAppSc W‘gong MPsc App U.N.S.W. MAPsS

Occupational Health Unit
Acting Unit Manager
Roxtane Kitchener, BHMS(Ed) QU MOHS U.T.S.

Audiologists
Janette Brazel, BA A.N. U. GradDipAud Macq.
Greg Nicoll, BE(Electrical) U.N.S.W. GradDipAud Macq.

Exercise Physiologist
Brett Bennett, BSc(HM) Grad DipExSc W‘gong

Occupational Physicin
Tom Rosenthal, MBBS FAPMOccPhys

Occupational Therapists
Melissa Benson, BAppSc(OccTher) GradCert(OccTher) Neuro
Andrew McLeod, BAppSc(ExPhyd) Cumb. BAppSc(OccTher) Rosemary Wood, BAppSc(Occ Ther) Cumb.

Physiotherapist
Cathy MacKay, BAppSc(Phty) MAPA

Psychologists
David Auld, BAppPsych N.E. GradDipEng U.N.S.W. MAPsS
Fiona Green, MAPsych MAPsS
Thomas O'Neill, BA MClinPsy Macq., MAPsS

Rehabilitation Counsellors
Anne-Marie Brookes, BHthSc(RC)
Margaret Elken, MRehabCling DipPhty

Specialist Trained Driving Instructor
Shona Blanchette, Dip PhysEd TETC

Academic and Associated Staff 1 - 5
Health Clinic
Consulting Medical Practitioners
Dr James S. Harrison, MBBS
Dr Gillian Rothwell, MBBS FRACGP
Consulting Orthopaedic Surgeon
Martin R. Sullivan, FRACS
Consulting Orthoptists
Pierre Elmurrr, BAppSc (Orth) DOBA
Neryl Jolly, MA Macq. DOBA T U.K.
Consulting Physiotherapists
Craig Honeybrook BAppSc(Phy) MAPA
Karen G. Ginn, BSc MPHEd U.N.S.W. DipPhy
Grad Dip Manip Ther Cumb. Dip Tert Ed N.E.
Cathy Mackay, BAppSc(Phy) MAPA
Consulting Podiatrist
Susanne Olsen, AssDipPod MA(Pod)
Consulting Masseur
Peter Butler, DTM
Continuing Professional Education and Conference Unit
Program Coordinators
Shan I. Wolody, DipAdEd S.C.A.E. BSocStud
Administrative Assistant
Margaret Maroki-Badal
National Centre for Classification in Health
Director
Associate Professor Rosemary Roberts, BA MPH MBA
Monash
Associate Director/Coding Services Manager
Kerry Innes, AssocDip (MRA) Cumb.
Coding Services Coordinator
Judith Hooper, BAppSc (MRA) Cumb.
Senior Classification Officers
Michelle Bramley, BAppSc (HIM)
vacant
Classification Officers
Patricia DahDah, BAppSc (HIM)
Tiffany Chan, MOperations Mgt W.Syd. BAppSc(HIM)
Publications and Technology Manager
Rodney Bernard, Grad Dip in Design Studies U.T.S.
Publications Officer
Chantel Garrett
Project Officer-Specialty Booklets
Monica Komaravalli, BAppSc(HIM)
Publications Assistant
vacant
Education Manager
Karen Peasley, AssocDip(MRA) Cumb.
Consultant
Julie Rust, BAppSc(HIM)
Information Systems Officer
Simon Clarke
Database Administrator
Nicole Schmidt, AssocDegAppSc(Resource Tech.) S.Cross
Quality Manager*
Dianne Williamson, BAppSc(MRA) GradDip(Erg) Lincoln
Senior Quality Officer*
Irene Kearsey, BAppSc(MRA) Lincoln MA(Archives & Records) Monash GradDip(Hlth Admin) Lincoln
Quality Officers*
Catherine Perry, BHTM LaT.
Andrea Groom, AssocDip(MRA) Lincoln
("These positions are located at School of Public Health, La Trobe University.")
Projector Manager, Professional Relativities Study
Lauren Jones, BAppSc(MRA) Cumb.
Executive Officer
Administrative Assistants
Linda Maleszka
Tina Stanhope
Administration
Faculty Office
Academic Development Chair
Distance Education Chair
FranEveringham, BAMHPED LT.N.S.W. GradDipEd(Health Stud) S.C.A.E. DipEd U.N.S.W.
Instructional Designer
vacant
International Development Officer
Beverly Wellington, BEd(N) A.C.A.E. MAS(N) RN
Distance Education Officer
Elizabeth Limbrick, BA U.N.S.W. DipEd Mitchell CAE
GradCert (Personnel Mgt)
Administrative Assistants
Chelvi Singaram
Jane Cassidy
Executive Unit
Faculty Manager
vacant
Acting Finance Officer
Norman Arena, MComm U.N.S.W., FCPA, AAIM, SIA
Administrative Officer, Research
Mary C Dinh, BA CertEd Tas.
Marketing Officer
vacant
Course Information Officer
Karen Cheung, BSSc Chinese II.K.
Administrative Assistants
vacant
Campus Management
Campus Manager
Hugh V. Brandon, BComm W’gong CPA
Secretary to the Campus Manager
Maureen Marchant
Building and Grounds Division

**Head**
Phillip Sorbello

**Senior Works Supervisor**
John Sommers

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

**Grounds Manager**
Brian Crick

Information Technology Services Division

**Acting Head**
Prakash Chordia, MSc(Tech) BITS Pilani

**Operations Supervisor**
Glenn Russell

**Network Manager**
Robert West, BSc

**PC Support**
Karen James

Michael Chang, BSc(Civil Eng.) *Taiwan* Dip of Computer.Tech S.T.C.

Property Services Division

**Head**
Sharon Vaughan

**Assets Manager**
David Ryan

**House Services/Security Manager**
Bruce Murray

**Mail/Records Manager**
Linda Thompson

**Residential Supervisor**
Singh Garewal, BA *Delhi*

Purchasing and Printing Division

**Printery Manager**
Dianne Gillespie

**Purchasing Officer**
Barrie Kerr

**Television Manager**
Ian J. McAulay

Student Administration Services Division

**Head**
Anita Olga Anderson, BA *Adel.*

**Undergraduate Officer**
Linda Dewar

**Graduate Officer**
Bharati Jayachandran

**Examinations Officer**
Eileen Logan

**International Student Officer**
Nancy Chin

Student Welfare Services Division

**Acting Head**
Andrea Chan MA NZ MA *ANU* PhD RSACertTEFLA GradDip MLT

**Academic and Communication Skills Tutors**
Rosalie Thomson BA NE LicDip S&D GradDipSC *W.Syd.* MA GradCertTESOL

Marie Clugston BA MLitt MA DipContEd NE PhD RSA CertTEFL

**Tutor/International Student Advisor**
May Thet Tun, MA *Mandalay* MA(TEM) GradDipMao/.

**Student Counsellor**
Julie Grove, BA BPsysc *W.Aust* MAPS

Health Sciences Library

**Health Sciences Librarian**
Helen Mary Knight, DipLib *U.N.S.W.* BA

**Senior Librarian**

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

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

Kushum L. Karan, BA(LIS) C.C.A.E AALIA

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

Dawn Payoe, BSc(Econ) *Lond.* GradDipLibSc K.C.A.E. ACIS AALIA


Personnel Services

**Personnel Manager**
Melody Newman

**Senior Personnel Officer**
Ramen Chetty

**Personnel Officers**
Marilyn Croft

Alan Frost

Jan McGregor

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


2 Faculty of Health Sciences

History
In 1970, a report of the then New South Wales Advanced Education Board recommended that a corporate College of Advanced Education be established specifically to:

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

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

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

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

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

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

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

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

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

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

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

As from the 1st January 1994, the School of Nursing, Faculty of Health Sciences was integrated into the Faculty of Nursing.

Objectives
The primary objectives of the Faculty are:

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

The supporting objectives are:

• Facilitation of interdisciplinary study, research and discussion with academic and clinical colleagues through continuing education programs, symposia, workshops, conferences and staff and student exchange activity.
• Provision of specialised services and advice to disabled and disadvantaged people and agencies (both voluntary and government) within the context of the Faculty's academic, teaching and research expertise and purpose.
• Provision of advice, consultancies and applied research programs to government, commercial and business organisations which share the Faculty's common interest in health and health sciences.
• Development of relationships with international agencies and governments which seek to utilise the expert service and advice of the Faculty, within the context of the Faculty's teaching mission and purpose.
Academic Governance
On 2nd September 1991 Senate resolved to approve the establishment of the Faculty of Health Sciences and approve the title of Dean and College Principal, to take effect from 28th October 1991. In 1998, the title was changed to Dean of the Faculty of Health Sciences.

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

Structure
The Faculty’s academic structure comprises of two Departments (Behavioural Sciences and Biomedical Sciences) and eight professional Schools:
- Applied Vision Sciences
- Communication Sciences and Disorders
- Community Health
- Exercise and Sport Science
- Health Information Management
- Medical Radiation Technology
- Occupation and Leisure Sciences
- Physiotherapy

The College's administrative structure comprises of eight divisions:
- Building and Grounds
- Faculty Office
- Financial Services
- Information Technology Services
- Personnel Services
- Property Services
- Student Administration
- Student Welfare Services

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

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

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

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

Cumberland Health and Research Centre is administered by a Board of academic members of the University of Sydney. The Board includes the Head of each School/Department within the Faculty of Health Sciences plus invited specialists. Individual programs are coordinated by health professionals regarded as leaders in their fields.

Australian Stuttering Research Centre
This Centre of Faculty was established in January 1996, and is supported partly by Faculty funds and partly by external, Commonwealth Research Grants. Staff of the Centre work closely with speech pathologists in the Stuttering Unit, Lidcombe Health Service. The purposes of the Centre are to:
- Conduct world class stuttering research
- Establish national and international collaborative research links
- Provide mentorship for Australian stuttering treatment researchers
• Disseminate to Australian and international speech pathologists information about how stuttering treatment research informs clinical practice
• Provide professional continuing education to Australian and international speech pathologists
• Provide postgraduate research programs in stuttering research
• Disseminate to the Australian community information about stuttering treatment.

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

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

The research mission is to perform state of the art research in all aspects of voice and wind instrument performance and to provide postgraduate supervision for students enrolled in the National Voice Centre.

The community access program aims to bridge the gap between voice research and professional voice users. Leading academics and voice practitioners from around the world are invited to present workshops, masterclasses and lectures to the wider voice community, providing professional development to speech pathologists, singers, actors, voice teachers and the business world.

Postgraduate research programs offered include Master of Applied Science and Doctor of Philosophy.

Current research projects include breathing in singing and speech, counter tenor voice, emotional expression in speech and song, neural mechanisms in vocal control, performance anxiety in speaking, physiology and acoustics of singing, speech pathology and acting, the development of physiological based models of singing voice production, the physiology and acoustics of the flute playing, therapeutic effects of singing and ultrasonography of respiratory muscle activity.

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

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

National Centre for Classification in Health (NCCH) Sydney
Established by the Faculty's School of Health Information Management in 1994, and funded by the Commonwealth Department of Health and Aged Care, the NCCH (Sydney) is a centre of expertise in classifications of morbidity, mortality and health interventions. Formerly the National Coding Centre (NCC), a joint agreement between Queensland University of Technology and the University of Sydney in early 1997 resulted in the new NCCH, with sites in both Sydney and Brisbane. The NCCH is responsible for the publication of the WHO-based clinical classifications ICD-9-CM and ICD-10-AM (Australian Modification) within Australia.

The objectives of the Centre include:
• development and publication of classification systems
• recommending national standards for health classifications
• working with the Australian Institute of Health and Welfare to fulfill WHO Collaborating Centre status
• development and promotion of coding standards
• preparation and presentation of coding education programs
• dissemination of information on national coding issues
• development of coding quality improvement processes

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

**Inter-Institutional Agreements**

The Faculty has developed links with the following institutions:

- The Chinese Academy of Medical Sciences, Beijing, Peoples Republic of China
- Hong Kong Polytechnic University, Hong Kong
- Mahidol University, Thailand
- Southern Illinois University, Carbondale, U.S.A.
- Sun Yat-sen University of Medical Sciences, Guangzhou, Peoples Republic of China
- The Queens College, Glasgow, Scotland
- The University of Indonesia, Jakarta, Indonesia
- The University of Hawaii
- Chiangmai University, Thailand
- College of Higher Education, Solomons Islands

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

Programs of cooperation involve exchange of information, faculty and where appropriate students, in a variety of educational development and research initiatives.
3 Undergraduate Courses

General Admission Requirements

The courses offered by the Faculty are in the general field of the health sciences. The following details are a guide to the admission requirements of the University. They indicate the minimum requirements for admission but do not ensure admission to the course.

While there are no specific subject prerequisites for entry to any course, some courses assume a knowledge of particular HSC subjects. Bridging courses are available for students lacking the specified background knowledge.

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

Generally, applicants for admission to the undergraduate courses are considered on the basis of the New South Wales Higher School Certificate or equivalent. The University also considers applications from suitably qualified international and mature age applicants.

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

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

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

Applicants for admission to the University must comply with the requirements of the NSW Board of Secondary School Studies for the awarding of a Higher School Certificate and the requirements for calculation of a Universities Admission Index.

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

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

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

Admission based on a Tertiary Record

If you have attended a recognised tertiary institution and have completed one full-time year (or the equivalent part-time) of an Associate Diploma, Diploma, Bachelor's degree or higher qualification, you will be considered for selection on the basis of your secondary and tertiary studies. In general greater weight is given to the tertiary record. If your tertiary studies were affected by serious illness or misadventure, you are entitled to apply for special consideration for admission.

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

Overseas Qualifications

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

Special Admission

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

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

Mature age applicants:

To be eligible to apply as a mature age applicant, you must be at least twenty-one years of age by 1 March of the year of your entry to the University. In most cases it will be necessary to have completed an approved preparation course such as the Tertiary Preparation Certificate, Limited TER, Special Admissions Preparation course or University Preparation Program. The preparation course must include the "assumed knowledge" subjects for the course(s) you are applying to enter.

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

Educationally disadvantaged applicants:

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

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

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

(b) mature age applicants must indicate their entry qualification (for example, Special Admissions Preparation Course, Limited HSC, Tertiary Preparation Certificate).

(c) educationally disadvantaged applicants must provide a clear explanation of their educational history, stating clearly the reasons which prevented them from obtaining or completing a satisfactory education or which interfered with 'normal educational progress'. This must be accompanied by independent supporting documentation (for example, doctor's report).

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

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

Other Admissions Schemes

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

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

Students who wish to apply for entry through this scheme should lodge the normal application through the Universities Admissions Centre and also lodge an application with the Ethnic Affairs Commission of NSW before 31 October each year. Forms are available from either the Commission or Student Administration (Cumberland).

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

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

HSC Applicants
Applicants under this category will be eligible for consideration for admission upon meeting the following requirement:
Completion of the NSW Higher School Certificate (or equivalent) with the minimum UAI as set by the Cadigal Program for the course applied for.

Non-HSC Applicants
Applicants under this category will be eligible for consideration for admission upon meeting one or more of the following requirements:
- Completion of an approved tertiary preparation course including any "assumed knowledge" subjects relevant to the course of study applied for, OR
- Completion or partial completion of an accredited course at a tertiary institution, OR
- Demonstration of, to the satisfaction of the Admissions Committee, a capacity to succeed in course work at university level.

Support for Aboriginal and Torres Strait Islanders
Students entering awards under the Cadigal Program may participate in the Aboriginal Health Science Support Program, which is co-ordinated by the Yooroang Garang. The support provided under this program consists of the following options:
- preparatory/bridging units in biological sciences, numeracy and tertiary study skills
- supplementary tutorial assistance in biological sciences, behavioural sciences and professional studies
- study skills assistance
- provision to do the first year of an award over two years.

Yooroang Garang supports all Aboriginal and Torres Strait Islander students on campus by providing a separate study area, common room and cultural and academic support.

The Broadway Scheme
The Broadway Scheme assists current NSW HSC candidates who have suffered long-term educational disadvantage to gain entry to courses at the University. Information and application forms are sent to all secondary schools in July of each year.

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

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

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

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

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

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

Behavioural Sciences

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

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

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

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

Biomedical Sciences

Biomedical Sciences subjects include the following areas of study:

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

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

Biochemistry and Biophysics include the physics and chemistry necessary for an understanding of biological processes and systems.

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

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

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

Knowledge Expected of Commencing Students

In pursuing any biological science or applied science course at university level, a basic knowledge of biology/physiology, chemistry, mathematical or physics concepts is essential to an understanding of theories of structure and function of the human organism. Rather than define specific mathematics and science subjects as prerequisites, the Faculty has provided the following information to assist applicants gauge their preparedness to undertake particular programs of study. This assumed knowledge does not apply to programs in Aboriginal Health and Community Development or Rehabilitation Counselling.

Applicants should refer to the course(s) in which they are interested for more specific information on levels of assumed knowledge. Students who do not meet the required level of assumed knowledge are encouraged to contact the Continuing Professional Education and Conference Unit on (02) 9 351 9343 about bridging courses or supplementary work to bring themselves up to the required level of knowledge.

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

Biology/Physiology

(relevant to all students)

Although no prior knowledge is expected, an understanding of the basics of biology would be beneficial to students undertaking subjects with a physiology component. Introductory physiology subjects cover topics which are part of most high school biology courses. For students who feel that their understanding of biology is inadequate, a physiology bridging course is offered before the start of the first semester.

Chemistry

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

- Understanding of the following concepts and terms: atom, subatomic particles (proton, electron), periodic table, electronic configuration, ions, covalent, and ionic bonds, electronegativity and shape, metals and non-metal.
- Knowledge of the names and chemical symbols of the first thirty-six elements of the periodic table, and other common elements.
- Knowledge of the following concepts and terms: types of compounds such as acids, bases, salts, mole, molar mass, solids, liquids, gases, temperature, and bond energies.
- Knowledge of the usual valencies of the common elements, ions and polyatomic ions.
- Ability to write word, ionic, and stoichiometric equations for chemical reactions.
Grammar
(relevant to Speech Pathology plus Hearing and Speech)
• Familiarity with the terminology of traditional English grammar and common classes, eg, noun, verb, preposition, adverbial phrase, subordinate clause, etc.
• Ability to distinguish clauses from phrases, and simple sentences from complex ones.
• Knowledge of construction of phrases, eg NP, UP, PP etc.
• Ability to identify the elements of clauses, ie subject, objects, verbs, adverbs, and complements.

Mathematics
(relevant for Medical Radiation Sciences 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:
  \[
  \begin{align*}
  \text{x + 2y} &= 5 \\
  \text{2x - 3y} &= 4
  \end{align*}
  \]
• 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:
  \[
  \begin{align*}
  y &= mx + b \\
  y &= ax^2 + bx + c \\
  y &= 1/x^m
  \end{align*}
  \]
• 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 Sciences, Physiotherapy and Orthoptics)
• Identify and be familiar with the following concepts and terms: motion, scalars and vectors.
• Knowledge of wave motion, light, wave phenomena.
• Identify and be familiar with the following concepts and terms: heat, temperature, calorimetry, heat transfer and expansion.
• Knowledge of the terms, density, force and pressure.
• Identify and be familiar with levers and pulleys.
• Identify and be familiar with the following concepts and terms: electrostatics, electric and potential fields, capacitance and Ohm's law.
• Knowledge of radioactivity and ionising radiation.

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

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

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

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

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

Honours Programs
The degree of Bachelor of Applied Science may be awarded in the grade of Honours in the following programs:
• Exercise and Sport Science.
• Health Information Management
• Leisure and Health
• Medical Radiation Technology/Sciences
• Occupational Therapy
• Orthoptics
• Physiotherapy
• Speech Pathology

The degree of Bachelor of Health Science maybe awarded in the grade of Honours in the areas of Rehabilitation Counselling; Aboriginal Health and Community Development; Behavioural Health Science or Hearing and Speech.

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

Admission and Selection
Entry into an Honours Program is generally at the beginning of the Third Year and eligibility for admission is based on performance during Years 1 and 2 of the course. Selection of students into an Honours Program is competitive and based on academic record and research interests. Availability of places, appropriate supervisors, and resources and facilities to support the student's proposed research may affect selection.

After results are released at the end of second year, students are notified by Student Administration (Cumberland) if they have met the criteria for admission. Eligible students wishing to be admitted to the Honours Program must then apply to the Head of School to seek admission.
Progression
Students in an Honours Program continue to enrol in most, if not all, of the subjects in the Pass Program and are generally required to maintain a credit average. Students also undertake additional subjects and research-related activities, and there may be time limits for completion of the Honours Program. Completion of a thesis or, in some cases, a treatise, is required. Details of specific requirements are given under each School's entry in this Handbook. Students in an Honours Program may elect to return to the Pass course at any time assuming they meet criteria for Pass course progression.

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

The Honours thesis is examined by at least two academic staff members of the University. The Head of the relevant School appoints the examiners in consultation with the supervisor, and the examiners provide recommendations that:

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

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

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

<table>
<thead>
<tr>
<th>Award or Prize</th>
<th>Value $</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcusal Prize for Research</td>
<td>$150</td>
<td>Honours student with the best undergraduate research project in the School of Physiotherapy.</td>
</tr>
<tr>
<td>Australian Physiotherapy Association Prize</td>
<td>$100</td>
<td>Two awards. In the Bachelor of Applied Science (Physiotherapy) Pass course, firstly, the most proficient graduand and, secondly, the graduand who achieves the highest standard in clinical practice.</td>
</tr>
<tr>
<td>Cardiothoracic Prize in the School of Physiotherapy</td>
<td>$200</td>
<td>Student with the highest combination of marks in both the cardiopulmonary clinical placement and the cardiopulmonary fourth year of the Bachelor of Applied Science (Physiotherapy) course.</td>
</tr>
<tr>
<td>Ciba-Geigy Prize</td>
<td>$100</td>
<td>Student with the highest aggregate mark in the subject Occupational Role Development I and II in the Bachelor of Applied Science (Occupational Therapy) course.</td>
</tr>
<tr>
<td>Diversional Therapy Association of Australia Prize</td>
<td>$100</td>
<td>Student with the highest aggregate marks for the subjects Diversional Therapy Facilitation Skills I and II in the Bachelor of Applied Science (Diversional Therapy) course.</td>
</tr>
<tr>
<td>Hilda Roberts Memorial Prize</td>
<td>$100</td>
<td>Most proficient student on completion of the final year of the Bachelor of Applied Science (Health Information Management) course.</td>
</tr>
<tr>
<td>Jillian Salter Memorial Award</td>
<td>$300</td>
<td>Non-metropolitan student with the highest aggregate marks across all second year subjects in the Bachelor of Applied Science in Medical Radiation Technology (Diagnostic Radiography) course.</td>
</tr>
<tr>
<td>Kodak Prize for Honours students in Medical Radiation Technology</td>
<td>$200</td>
<td>Awarded for the student who gains the highest score in the assessment of their honours thesis in the Bachelor of Applied Science (Medical Radiation Technology/Sciences) course.</td>
</tr>
<tr>
<td>Award or Prize</td>
<td>Value $</td>
<td>Criteria</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>J. Val Simpson Memorial Prize for Manual Therapy</td>
<td>$100</td>
<td>Student exhibiting the highest proficiency in manual therapy in the Bachelor of Applied Science (Physiotherapy) course.</td>
</tr>
<tr>
<td>Met-a-Lite Prize for Components of Occupational Performance</td>
<td>$100</td>
<td>Student with the highest aggregate marks for the subjects <em>Components of Occupational Performance</em> IA, IB, IIA, IIB, III and IV in the first, second and third years of the Bachelor of Applied Science (Occupational Therapy) course.</td>
</tr>
<tr>
<td>Murray F. Allan Memorial Award</td>
<td>$100</td>
<td>Student exhibiting the most outstanding services to students. Open to students of all Schools and Departments in their final year of study.</td>
</tr>
<tr>
<td>OT Australia</td>
<td>$100</td>
<td>Student with the highest aggregate marks for the subjects <em>Occupational Therapy Theory and Process</em> I, IIA, IIB, III, IVA and IVB in Bachelor of Applied Science (Occupational Therapy) course.</td>
</tr>
<tr>
<td>NSW Branch of the Australian Association of Speech and Hearing Prize</td>
<td>$100</td>
<td>Student with the highest general proficiency in the final year of the Bachelor of Applied Science (Speech Pathology) course.</td>
</tr>
<tr>
<td>Orthoptics Association of Australia, NSW Branch Prize</td>
<td>$150</td>
<td>Honours student gaining the highest marks for an honours thesis in the Bachelor of Applied Science (Orthoptics) Honours.</td>
</tr>
<tr>
<td>Patricia Lance/John Pockley Prize</td>
<td>$100</td>
<td>Student with the highest general proficiency demonstrated throughout the Bachelor of Applied Science (Orthoptics) course.</td>
</tr>
<tr>
<td>Physiotherapy Research Foundation Prize</td>
<td>$100</td>
<td>Student with the highest grade for an honours research thesis of a Class 2 Level 2 grade or better in the Bachelor of Applied Science (Physiotherapy) honours course.</td>
</tr>
<tr>
<td>Private Speech Pathologists' Association of New South Wales Prize</td>
<td>$100</td>
<td>Student with the greatest clinical proficiency during the final two years of the Bachelor of Applied Science (Speech Pathology) course.</td>
</tr>
<tr>
<td>Rosemary E. Wilson Memorial Prize for Caring and Giving</td>
<td>$100</td>
<td>Student who is judged as having best shown an awareness of patients' total needs and real empathy with patients' physical, psychological and emotional needs in the Bachelor of Applied Science (Physiotherapy) course.</td>
</tr>
<tr>
<td>School of Physiotherapy students nominated prize for outstanding personal achievement</td>
<td>$100</td>
<td>Final year students to be responsible for collecting nominations and organising voting.</td>
</tr>
<tr>
<td>Smith and Nephew Prize for Occupational Therapy students</td>
<td>products to the value of $350</td>
<td>Awarded for the attainment of the highest aggregate marks in the subjects <em>Human Occupations</em> IA, IB, IIA, IIB, III, and IV in the Bachelor of Applied Science (Occupational Therapy) course.</td>
</tr>
<tr>
<td>Sports Medicine Australia Prize</td>
<td>$100</td>
<td>Third year student with highest aggregate marks in Bachelor of Applied Science (Exercise and Sport Science) course (NB. those continuing to Honours are eligible)</td>
</tr>
<tr>
<td>Neurological Rehabilitation Prize</td>
<td>$100 plus one year's membership of Neurology Study Group</td>
<td>Awarded annually to the student exhibiting the highest proficiency in Neurology in third and fourth years of the Physiotherapy course.</td>
</tr>
</tbody>
</table>
Financial Assistance

Youth Allowance
Students who are under 25 when first seeking an allowance from Centrelink may be entitled to Youth Allowance. Eligibility is based on income and assets tests applied to parents (or, if married, both partners) as well as the individual's own income and assets. Students may be assessed without regard to parental or partner income and assets tests if they qualify as independent. Students must be full-time, i.e., have a HECS' weighted subject load in each semester, of at least .375. An additional Rent Assistance may be available for students living away from home for study purposes.

Austudy
Students who are 25 or over and full-time students, may be entitled to Austudy, which is different from the old AUSTUDY. Eligibility is based on income and assets tests applied to the student's situation and where appropriate, to their partner's. Students must be full-time-i.e, the same .375 measure applies as for Youth Allowance, but in some circumstances a reduced semester load as low as .332 may apply. You will need to discuss this with the Guild Resource Officer to ensure retention of Austudy.

ABSTUDY
Similar conditions apply as to Youth Allowance and Austudy, although there is no age division.

Finding Out More
The Guild Resource Officer on Level 3 of the Guild Building has a supply of forms and information handouts which are available on request. The officer is also an expert on Youth Allowance and Austudy and advises on all aspects of the schemes.

Youth Allowance, Austudy, and ABSTUDY are administered by the network of Centrelink Offices across the state, on behalf of the Department of Family and Community Services, under Social Security legislation. You may choose to contact your nearest Centrelink Office for forms and assistance.

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

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

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

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

Students seeking assistance from the fund should obtain an application form from Student Welfare Services (Cumberland). The maximum amount of the loan is normally $1500.00 with an interest free period of twelve (12) months. (Non-award students are ineligible to apply for assistance from the fund)

Explanation of Subject/Units of Study

Numbering System
The Faculty of Health Sciences has moved to a new Student Information System and a new subject numbering system. From 1998 what were previously known as 'subjects' are to be referred to as 'units of study'. The units of study numbering system comprises a four-letter of the alphabet and four digits. The letters of the alphabet identify the School/Department/Centre responsible for the unit of study. The first of the four digits corresponds as far as possible to the level of the unit, and the remaining three digits are sequentially allocated as required.

The identifying alphabet codes of the Faculty's Departments/Schools/Centres are as follows:

- STUT: Australian Stuttering Research Centre
- BEHS: Department of Behavioural Sciences
- BIOS: Department of Biomedical Sciences
- VOIC: National Voice Centre
- REHB: Rehabilitation Research Centre
- ORTH: School of Applied Vision Sciences
- CSCD: School of Communication Sciences and Disorders
- COMH: School of Community Health
- EXSS: School of Exercise and Sport Science
- HIMT: School of Health Information Management
- MRTY: School of Medical Radiation Technology
- OCCP: School of Occupation and Leisure Sciences
- PHTY: School of Physiotherapy
- SING: Singapore Institute of Management
- AHCD: Yooroang Garang

As part of the transition to the new Student Information System, this Handbook also contains the old subject codes which are placed in parentheses next to the new units of study codes.

Undergraduate Courses
Summary of Undergraduate Diplomas and Degrees

Bachelor of Applied Science (BAppSc)

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Mode</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exercise and Sport Science(^1)</td>
<td>3 years</td>
<td>F/T</td>
<td>2209</td>
</tr>
<tr>
<td>Health Information Management(^1)</td>
<td>3 years</td>
<td>F/T</td>
<td>0902</td>
</tr>
<tr>
<td>Leisure and Health (previously Diversional Therapy)(^1,5)</td>
<td>3 years</td>
<td>F/T</td>
<td>1531</td>
</tr>
<tr>
<td>Medical Radiation Technology(^1)</td>
<td>3 years</td>
<td>F/T</td>
<td>1541(^4)</td>
</tr>
<tr>
<td>Diagnostic Radiography</td>
<td></td>
<td></td>
<td>1808</td>
</tr>
<tr>
<td>Nuclear Medicine</td>
<td></td>
<td></td>
<td>1809</td>
</tr>
<tr>
<td>Radiation Therapy</td>
<td></td>
<td></td>
<td>1810</td>
</tr>
<tr>
<td>Medical Radiation Sciences(^1,4)</td>
<td>3 years</td>
<td>F/T</td>
<td>1837</td>
</tr>
<tr>
<td>Diagnostic Radiography</td>
<td></td>
<td></td>
<td>1838</td>
</tr>
<tr>
<td>Nuclear Medicine</td>
<td></td>
<td></td>
<td>1839</td>
</tr>
<tr>
<td>Radiation Therapy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupational Therapy(^1)</td>
<td>4 years</td>
<td>F/T</td>
<td>1519/1539(^4)</td>
</tr>
<tr>
<td>Orthoptics(^1)</td>
<td>4 years</td>
<td>F/T</td>
<td>1410</td>
</tr>
<tr>
<td>Physiotherapy(^1)</td>
<td>4 years</td>
<td>F/T</td>
<td>1622/1652</td>
</tr>
<tr>
<td>Speech Pathology(^1)</td>
<td>4 years</td>
<td>F/T</td>
<td>1206</td>
</tr>
</tbody>
</table>

Bachelor of Health Science (BHlthSc)

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Mode</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aboriginal Health and Community Development(^1)</td>
<td>3 years</td>
<td>F/T</td>
<td>0753/0780</td>
</tr>
<tr>
<td>Hearing and Speech(^1,4)</td>
<td>3 years</td>
<td>F/T</td>
<td>1211</td>
</tr>
<tr>
<td>Medical Radiation Technology(^2)</td>
<td>2 years</td>
<td>P/T</td>
<td>2004</td>
</tr>
<tr>
<td>Medical Radiation Technology(^3)</td>
<td>1 year</td>
<td>F/T</td>
<td>1830</td>
</tr>
<tr>
<td>Diagnostic Radiography</td>
<td></td>
<td></td>
<td>1831</td>
</tr>
<tr>
<td>Radiation Therapy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nursing(^2)</td>
<td>(September start) 2 years</td>
<td>P/T</td>
<td>2001</td>
</tr>
<tr>
<td>(April start) 2 years</td>
<td></td>
<td></td>
<td>2011</td>
</tr>
<tr>
<td>Occupational Therapy(^2)</td>
<td>1 year</td>
<td>P/T</td>
<td>2002</td>
</tr>
<tr>
<td>Occupational Therapy(^3)</td>
<td>0.5 years</td>
<td>F/T</td>
<td>1535</td>
</tr>
<tr>
<td>Physiotherapy(^2)</td>
<td>2 years</td>
<td>P/T</td>
<td>2003</td>
</tr>
<tr>
<td>Physiotherapy(^3)</td>
<td>1 year</td>
<td>F/T</td>
<td>1650</td>
</tr>
<tr>
<td>Rehabilitation Counselling(^4)</td>
<td>3 years</td>
<td>F/T</td>
<td>0819</td>
</tr>
<tr>
<td>Rehabilitation Counselling(^5)</td>
<td>4 years</td>
<td>F/T</td>
<td>0878</td>
</tr>
<tr>
<td>Bachelor of Behavioural Health Science(^1,4)</td>
<td>3 years</td>
<td>F/T</td>
<td>1020</td>
</tr>
</tbody>
</table>

Diploma of Health Science (DipHlthSc)

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Mode</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aboriginal Health and Community Development</td>
<td>2 years</td>
<td>F/T</td>
<td>0767</td>
</tr>
</tbody>
</table>

Notes
Honours Program available. Total course length four years full-time.
Off-shore (Singapore-based) conversion courses.
On-shore (Sydney-based) Singapore conversion courses.
Commencing 1999
Off-campus
4 Administrative Information

Course Enquiries and Applications

Student Administration (Cumberland)

Student Administration (Cumberland), located in the Jeffrey Miller Administration Building (A Block), provides intending applicants and enrolled students, both local and overseas, with information and advice on the various courses offered by the Faculty, as well as associated matters of admission and enrolment. Enquiries can be made Monday - Friday between 9 a.m and 4.30 p.m.

The postal address is:
Student Administration (Cumberland)
The University of Sydney
P.O. Box 170
Lidcombe, NSW 1825
Ph: (02) 9351 9161 Fax: (02) 9351 9412

Undergraduate Course Applications

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

Bachelor of Applied Science
- Exercise and Sport Science
- Health Information Management
- Leisure and Health*
- Medical Radiation Sciences
- Occupational Therapy
- Orthoptics
- Physiotherapy
- Speech Pathology

Bachelor of Behavioural Health Science

Bachelor of Health Science
- Aboriginal Health and Community Development*
- Hearing and Speech
- Rehabilitation Counselling

UAC application forms and Information Guides are available in August each year:
- for NSW Higher School Certificate students, from schools;
- for ALL other undergraduate applicants, from major newsagents or from the Universities Admissions Centre, Postal Address:
  UAC, Locked Bag 500
  Lidcombe, NSW 1825
  Telephone (02) 9330-7200

- Also available by off-campus mode. Applicants for the Leisure and Health (off-campus) course must apply directly to the Faculty. Contact the Undergraduate Advisor on phone (02)9351 9161 email: l.dewar@cchs.usyd.edu.au
- Applications for Aboriginal Health and Community Development are not processed by UAC. Potential applicants should contact Yooroong Garang, Centre for Indigenous Health Studies, phone (02) 93519095.

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

All Other Course Applications

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

Graduate Courses

Detailed application procedures are set out in Chapter 3 of the Postgraduate Handbook.

Registration and Enrolment

Status of Students

A student shall be deemed to be a registered student of the University from the time of first enrolment, until the student
a) has completed the course; or
b) has discontinued studies; or
c) has been excluded from the course and/or the University; or
d) is deemed to have abandoned the course.

Completion of enrolment will include submission and subsequent acceptance of matters outstanding at the time of receipt of a signed enrolment form. Such matters may include orthoptic eye tests, evidence of meeting course admission prerequisites and any other items.

Registered students are required to enrol at the start of each year or semester as determined by the Head, Student Administration (Cumberland).

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

Deferment of Enrolment

A person granted admission to an undergraduate course of the University and who undertook at least 10 units of the N.S.W. Higher School Certificate, or its equivalent, in the preceding year, may be permitted to defer enrolment for a maximum period of one year.
Deferment of enrolment will not normally be granted to enable an applicant to undertake another tertiary course. Other applicants will not be permitted to defer enrolment unless there have been extreme and unpredictable changes in circumstances since applying for the course.

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

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

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

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

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

Non-award students are required to pay unit tuition fees on the basis of a fixed fee ($13,000 in 1997) for a full-time load multiplied by the weight of the individual unit.

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

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 $10.00 per hour in 1998) for this mode of study.

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

Cross-Institutional Enrolment
Students enrolled in a recognised tertiary course at another institution will be permitted to enrol in any unit in degree and diploma courses in the Faculty of Health Sciences, providing the unit is approved by the home institution, the applicant satisfies the pre-requisite knowledge to study the unit and resources are available to support the enrolment in the unit.

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

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

Enrolment of New Students
Enrolment of new students in a course entails:

a) completion of an Enrolment form attesting the units in which the student will be enrolled in the first year of study;

b) completion of such forms for statistical purposes as required by the Department of Employment, Education, Training and Youth Affairs (DEETYA), and any other government agency;

c) completion of a form to indicate mode of payment of the Higher Education Contribution;

d) completion of such other forms as required by the Faculty or University;

e) payment of compulsory and other fees in relation to study at the University including Student Guild fees;

f) payment of the estimated Higher Education Contribution for March Semester if the "up-front" mode of payment is adopted.

g) payment of tuition fees for March Semester if enrolled in a fee paying course

New students accepting places in courses processed by the Universities Admissions Centre are required to enrol at the Cumberland Campus on Thursday 28, or Friday, 29 January, 1999, and will be required to complete at least items (a) - (d) above.

New students accepting places in courses for which they applied directly to the Faculty (non-UAC courses) are required to enrol at the Cumberland Campus on Thursday, 28 January, 1999, and will be required to complete at least items (a) - (d) above.

Students who receive UAC offers in the Final Round are required to enrol at the Cumberland Campus on Tuesday, 9 February, 1999.

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, 12 February, 1999 or the enrolment may be cancelled (financial assistance in the form of a short term, interest-free loan is available to support the payment of compulsory subscriptions). A fees/charges deposit notice for this purpose will be issued at enrolment. If fees are not paid by this date the enrolment may be cancelled. If re-instatement is subsequently requested and approved a $100 re-instatement fee may apply.

If the "up-front" mode of payment is adopted, the estimated Higher Education Contribution for March Semester, must be paid by Friday, 12 March, 1999. A statement of enrolment and another fees/charges deposit notice will be issued by the end of February for this purpose. Failure to pay by this date will result in the "up-front" payer's enrolment being cancelled on 1 April/1999, unless the payment option is altered to "defer-to-tax" by 31 March, 1999.
Re-enrolment of continuing students

Re-enrolment of continuing students in a course entails:

a) completion of an Enrolment form attesting the units in which the student will be enrolled;

b) completion of such forms for statistical purposes as required by the Department of Employment, Education, Training and Youth Affairs (DEETYA) any other government agency;

c) completion of a form to indicate mode of payment of the Higher Education Contribution (only if the student is changing mode from that adopted in the immediately preceding semester);

d) completion of such other forms as required by the Faculty or University;

e) payment of compulsory and other fees in relation to study at the University, including Student Guild fees.

f) payment of the estimated Higher Education Contribution for March Semester, if "up-front" mode of payment is adopted.

Re-enrolment of continuing undergraduate students will be carried out by mail. In mid-January, 1999, students who 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, 12 February, 1999 (financial assistance in the form of a short term, interest-free loan is available to support the payment of compulsory subscriptions). A fees/charges deposit notice for this purpose will be issued in the re-enrolment kit. If fees are not paid by this date the enrolment may be cancelled. If re-enrolment is subsequently requested and approved a $100 re-instatement fee may apply.

If the "up-front" mode of payment is adopted the estimated Higher Education Contribution for March Semester, must be paid by Friday, 12 March, 1999. A statement of enrolment and associated estimated HECS will be sent by mail to the student's address of each currently enrolled student.

If amendments are required to the statement it should be returned to Student Administration (Cumberland) by Friday, 20 August, 1999, with a letter of explanation. The completion of an Application for Variation of Enrolment may be required.

Students who do not intend to continue their studies in August Semester must formally withdraw from their course before 31 August, 1999, or they will be charged HECS for the August Semester.

Confirmation of Enrolment

In late April (March Semester) and late September (August Semester), all enrolled students will receive a notice confirming the details of their enrolment and providing a record of their Higher Education Contribution for the current semester. If the detail of the notice is accepted, it should be kept by the student as a record in relation to the Higher Education Contribution for that semester. If amendment to this notice is required it should be returned to Student Administration (Cumberland) with an explanatory letter. The completion of an "Application for Variation of Subjects" may be required.

Fees and Charges

1. 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 a fee paying local undergraduate student;
Most units of study (subjects) taught in the Faculty of Health Sciences attract HECS at the Band 2 rate of $4,855 per annum. The major exceptions are subjects taught by the Department of Behavioural Sciences, School of Community Health, and Leisure and Health subjects which attract the Band 1 HECS charge of $3,409 per annum. 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 March Semester and 31 August in August Semester), taking account of any amendments made to the course in which the student is enrolled. A notice of "Confirmation of Enrolment and HECS Liability" will be sent to every enrolled student after the census date in each semester setting out current HECS payment mode, the course load, the amount of contribution required for the semester, the amount paid thus far and the amount still to be paid or any refund due.

Payment of the contribution may be made in two ways (outlined below) and the mode of payment may be varied from semester to semester. New students will be required to make an initial choice of mode of payment when they first enrol and this will be taken to indicate the preferred mode for future payments. It will be assumed that continuing students will maintain the previously selected mode of payment, although they may apply to vary their mode.

"Up-Front" Payment of HECS
This mode permits a student to pay an annual amount equal to 75% of the estimated full contribution, half before the census date in each semester. The amount must be paid either as a lump sum or in two parts, with the first part being at least 50% of the required payment and the balance paid before the census date. From 1998, students also have the option of a partial up-front payment of at least $500 and may defer the balance. The partial up-front payment will attract the 25% discount.

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.

"Deferred" Payment of HECS
This mode permits a student to defer all or part of the full contribution for the semester. No repayment is required until the taxable income of the student reaches a minimum threshold level. Choice of this mode requires a student to provide their tax file number at enrolment/re-enrolment.

2. Course Fees (fee-paying undergraduate places)
The Faculty offers a limited number of fee-paying undergraduate places in some courses.

Students who are admitted as fee-paying undergraduate students are exempt from paying HECS.

The fees will be levied by semester of enrolment and will be due for payment by the same dates as "up-front" HECS payments.

3. Compulsory Student Guild Fees
All students on the Cumberland campus are required, as a condition of their enrolment, to become members of the Cumberland Student Guild.

Note
a) Exemptions from being a member or paying subscriptions may be granted on certain grounds specified in the University of Sydney Calendar. Students granted exemption on grounds of conscience will have their membership fee transferred to the Jean D. Foley Bursary Fund.

b) Students enrolling for one semester only are to pay a reduced fee.

Extension of Time for Payment
Any student who is unable to pay compulsory Student Guild fees may apply before the due date to the Head, Student Welfare Services (Cumberland), for an interest free loan. This loan is repayable by 30 April.

An extension will not normally be granted in respect of payment of the Higher Education Contribution, where the whole or part of the payment may be deferred to taxation. Loans are not available for payment of HECS or course fees.

4. Notes and Levies
Schools and Departments publish manuals for many units of study, ranging in cost from $2 to $26 (in 1998). Purchase of manuals is optional, but highly recommended. Copies of manuals are available in the Library’s Closed Reserve, and in some cases on the internet.

Students in some courses are required to pay a fee for use of equipment or supply of materials used in tuition.

5. Continuing International Students
Fees for March Semester must be paid by 15 January, 1999. Fees for August Semester must be paid by 30 June, 1999.
Failure to meet Financial Liabilities

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

Refund of Student Guild Fees

a) If written notice of discontinuation of a course is received by 31 March, all Student Guild Fees paid will be refunded.

b) After 31 March in a year, students who formally discontinue or vary their course of study and consider themselves eligible for a refund of all or part of fees paid to the student organisations, may write to the Secretary of the Cumberland Student Guild detailing their case.

Refund of HECS

If following some variation of enrolment, a student becomes eligible for a refund of all or part of an "up-front" Higher Education Contribution, the amount of the refund will be notified in the "Confirmation of Enrolment" notice and the refund made a short time after receipt of the notice.

Requests for refund of any other fees or contributions should be directed in writing to the Head, Student Administration (Cumberland) and should detail fully the grounds upon which the request is based.

Refund of Course Tuition Fees

Students who withdraw before the start of semester will be reimbursed 90% of the tuition fee. The University retains the remaining 10% to cover administrative overheads.

Students who withdraw after the start of the semester but before the census date of 31 March or 31 August, will be reimbursed 50% of the fee. The University's retained portion covers not only administrative overheads but also tuition costs.

Beyond the census date for each semester, the University retains 100% of the fee income.

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. Three forms of credit transfer may be granted:
   a) Block Credit for whole stages or years of course. Students are awarded the grade of AS (Advanced Standing) for all units credited.
   b) Specified Credit 1 for whole unit(s) of study which the student is not required to undertake based on completion of studies which have been deemed equivalent. The student is awarded the grade of AS for all units of study credited.
   c) Specified Credit 2 for parts of units of study which the student is not required to undertake based on completion of studies which have been deemed equivalent (previously termed "exemption"). These units of study will attract only a ZP or F final grade except when the part(s) of unit were undertaken in the same subject at the Cumberland Campus in the previous year. Course Examiners may record a mark with these grades. It should be noted that partial credit transfer in a unit of study may adversely affect a student's weighted average mark which is used in determining eligibility for Honours programs.

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 Handbooks will list existing "class-action" credit transfer policies.

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 the approved course fees.

9. Mechanisms for achieving credit transfer include:
   a) the provision of academic transcripts and syllabuses or alternative information for a judgement on a case-by-case basis,
   b) the provision of appropriate evidence related to existing credit transfer class actions,
   c) the successful completion of challenge exams, where required. Challenge exams provide an opportunity for students to demonstrate that they have achieved the learning goals of a unit of study through previous formal study. Successful completion of a challenge exam will result in a grade of AS being awarded for that unit of study. Challenge exams are applicable only for units which the student has previously passed.

10. Credit for prior learning which is of a non-credential nature may be granted on the recommendation of the Head of School or Department. This credit may take the form of any of the forms of credit listed above. Such decisions will be made on a case-by-case basis.

11. Eligibility for credit does not guarantee a place in the course in which the credit would be available.

12. Where existing credit transfer statements (e.g. class actions) exist, such information would be available at the time of enrolment via the Faculty Handbook.

13. The responsibility for approval of Block credit transfer rests with the Head of the School/Department in which the student is enrolled, following appropriate consultation. The responsibility for approval of Specified Credit 1 and 2 rests with the Head of the School/Department in which the unit of study is taught. In case of dispute or appeal, the final responsibility for credit transfer rests with the Faculty.

(*) A class action refers to an Advanced Standing agreement based on a circumstance (e.g. a qualification or subject completed) which pertains to a "class group" of people.
Current Practices within the Faculty of Health Sciences

1. Each student's case in relation to units of study taught within the Faculty is considered individually on the basis of information submitted.

Exceptions:

- The Schools of Medical Radiation Technology, Health Information Management and Communication Sciences & Disorders may use challenge tests in individual cases to clarify the level of prior learning.
- Credit transfer class-actions exist in relation to:
  a) the Bachelor of Health Sciences (Aboriginal Health and Community Development) from the Associate Diploma in Aboriginal Health and Community Development (University of Sydney), the Associate Diploma in Aboriginal Health and Community Development (Southern Cross University) and the Bachelor of Applied Science (Aboriginal Community Management and Development) (Curtin University);
  b) the Bachelor of Applied Science (Leisure and Health) (offered by the Associate Diploma of Applied Science (Diversional Therapy) (University of Sydney);
  c) the Master of Applied Science (Manipulative Physiotherapy) from graduate diplomas in manipulative physiotherapy awarded by Cumberland College of Health Sciences and The University of Sydney.

1. Credit Transfer based on Challenge Examinations

Where it is unclear how closely the student's previous educational achievements are matched to future requirements, particularly in units of study offered by the Department of Biomedical Sciences or Department of Behavioural Sciences, students may be asked to take a "Challenge Examination". A challenge exam may be used rather than refusing credit transfer outright.

2. Credit Transfer based on TAFE Studies

Due to the specialised nature of the Faculty's programs, there are few TAFE subjects which could result in Advanced Standing; however, students may seek Specified Credit 2 (exemptions) based on prior learning in TAFE programs. In some instances, challenge tests may be required in addition to the provision of relevant information to support the student's application. Students should contact the Unit of Study Co-ordinator of the relevant unit of study direct to discuss credit for prior learning.

3. Credit for Prior Learning of a Non-Credential Nature

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 Unit 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 program, publications by applicant, demonstrated clinical expertise in relation to postgraduate programs, etc).

It may not be realistic or feasible to provide convincing evidence in some instances, in which case the student would be required to enrol in the unit(s) in question.

Implications of gaining Credit Transfer

1. Gaining Credit Transfer/Advanced Standing in a unit will decrease the student's workload. A reduced overall workload may affect eligibility for Austudy/Abstudy/Youth Allowance support.

2. Having been granted Advanced Standing, the student may wish to seek approval, via their Head of School, to enrol in higher stage units in their course, subject to timetable constraints.

3. Students gaining Credit Transfer/Advanced Standing are awarded the grade AS which is not included in the calculation of a Grade Point Average/Weighted Average Mark.

4. Gaining credit (exemptions or Advanced Standing) could influence a student's marks, either by allowing more time for studying other units and thereby improving the marks in those units, or by gaining an AS grade instead of a (potentially) high mark based on previous knowledge which could increase the GPA. Specified Credit 2 (exemptions) may also influence the mark and grade achievable in the unit and therefore the GPA.

The Grade Point Average/Weighted Average Mark is the basis for entry into Faculty Honours programs and allocation to a hospital job (after graduating from the BAppSc in Physiotherapy). The calculation of the Weighted Average Mark for the award of Australian Postgraduate Awards (scholarships) for postgraduate study involves consideration of all available marks. Only units with marks (i.e. excluding AS and ZP graded units) are considered in the calculation.

Procedures

Details of the process for applying for credit transfer are given on the "Credit Transfer 1999" leaflet available from Student Administration in "A" Block. Applications must be made on the appropriate form and lodged with Student Administration (Cumberland) by the specified closing date. Students should attend classes until the results of their credit transfer application have been advised.

Challenge Examinations

If you are assessed as required to sit for challenge exams in one or more units of study, you will be advised in writing of the date(s), time(s) and venue(s) for your exam(s). Challenge exams for full year units and units offered in the March semester will be held on Thursday 25 February, Friday 26 February and Saturday 27 February 1999. Results will be posted in the relevant Schools/Departments by the end of week 1. Challenge exams for units offered in August semester will be held during the week commencing Monday 1 March, 1999. Results will be posted on the noticeboards in the relevant School/Department by the end of week 2.

(*) A class action refers to an Advanced Standing agreement based on a circumstance (e.g. a qualification or subject completed) which pertains to a "class/group" of people.
Discontinuation of Studies, Variation of Units and Leave of Absence

General
In making a decision to vary a course of study or apply for Leave of Absence or Discontinuation of Studies, it is often advisable for a student to discuss the situation with the Head, Student Welfare Services (Cumberland) or the Student Counsellor. While educational issues will be discussed within the School/Department, personal and family issues may also be involved and be equally important. Staff in Student Welfare are available to assist students in clarifying the reasons why changes in their academic programs may be necessary, especially where these are related to illness or misadventure, and in effective planning to overcome such difficulties.

Discontinuation of Studies
Discontinuation of studies refers to the formal abandonment of a course of study after enrolment/re-enrolment has been completed.

Students applying to discontinue their studies must complete an "Application for Discontinuation of Studies" form (available from the Student Enquiries Counter) and forward it, together with the completed "Exit Authority" to Student Administration (Cumberland). Forms will not be accepted unless they contain the recommendation(s)/endorsement(s) of the appropriate Heads of School/Departments (or their delegates) and other Cumberland Campus staff. Incomplete application forms will be returned to the student.

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

To discontinue studies without failure being recorded against enrolled units, the application form must be accepted by the following dates:

a) For March semester only units, 31 March, 1999;
b) For full-year units and August Semester only units by 31 August, 1999.

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 unit. 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 unit.

If a student discontinues after the above dates and produces appropriate evidence with the application that discontinuation was due to serious illness or misadventure, the Faculty may deem all units to be "discontinued without failure".

Upon discontinuation of studies, some refund of fees may be possible (refer to the section on Fees and Charges - Refund of Fees).

Students who abandon their course after enrolment/re-enrolment and neglect to formally discontinue (that is, "dropping-out") will be deemed to have failed all units in which they are enrolled and be ineligible for any refund of fees.

Re-Admission after Discontinuation or Abandonment of Course
Students who discontinue or abandon a course lose their status as registered students of the University. Any subsequent application for re-admission to the course from which they discontinued must be lodged by the advertised closing date. Such an application will be considered with all other applications received that year for that course.

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

Variation of Enrolment
Variation of enrolment refers to the addition and/or discontinuation of units and requires the approval of the Faculty.

Students must complete the "Application for Variation of Enrolment" form (available from the Student Enquiries Counter) and forward it to the appropriate Head, Student Administration (Cumberland). The form will not be accepted unless it contains the recommendation(s)/endorsement(s) of the appropriate Heads of School/Departments (or their delegates). An incomplete application form will be returned to the student originating it.

For the application to apply to the payment of the Higher Education Contribution, it must be lodged by 31 March in March Semester or by 31 August in August Semester. If the addition of any units is requested and approved after these dates, the student is required to discharge the increased liability on the same basis that the original HECS liability was to be discharged, that is by either an "up-front" payment or a 'deferred' payment. If discontinuation of any unit is requested after these dates, no refund of payments nor reduction of deferred liability will occur.

To discontinue a unit without failure being recorded, the application form must be accepted by the following dates:

a) For March semester only units, by 31 March, 1999;
b) For full-year units and August Semester only units by 31 August, 1999.

Undergraduate students whose applications for discontinuation of units are accepted by the Faculty in accordance with the above dates will have their records endorsed "discontinued without failure" for each approved unit.

Undergraduate students whose applications for discontinuation of units are not accepted by the Faculty in accordance with the above dates will have their records endorsed "discontinued with failure" for each approved unit.

If a student discontinues a unit after the above dates and produces appropriate evidence with the application that discontinuation was due to serious illness or misadventure, the Faculty may deem the unit to be "discontinued without failure".

Students should re-enrol in discontinued units or their equivalent at the next available opportunity.
Leave of Absence

Leave of absence for a specific period may be granted by the Faculty to students in special circumstances. Leave of absence shall not normally exceed one year, but in exceptional circumstances, up to two years may be granted. Leave is normally granted to the commencement of a semester.

Students returning from a leave of absence will re-enrol in all incomplete required units, 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) 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 March Semester of the subsequent year, the student retains the status of a registered student, must enrol in the same or nearest equivalent unit in March Semester of the subsequent year, and will have their record endorsed "discontinued without failure" for each incomplete enrolled unit.

If a student has an application for leave of absence approved to the commencement of August Semester of a subsequent year, the student retains the status of a registered student, must enrol in the same or nearest equivalent units in August Semester of the subsequent year, and will have their record endorsed "discontinued without failure" for each incomplete enrolled unit.

Special Leave

Special leave may be granted by the Head of School/Department for a period of time (usually not exceeding two months) during the current year of a student’s course. Such leave will be granted only if all studies/assessments can be completed in the current year to the satisfaction of the appropriate School/Departments, otherwise the student should apply for Leave of Absence (see above).

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

Examinations and Assessments

General

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

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

Attendance at Assessments

It is the individual student's responsibility to be available for all assessments, including Post and Deferred Assessments. Students who intend travelling away from Sydney should ensure that they are able to return in time to undertake an assessment at the time and place set down. The time or place for an assessment will not be altered to accommodate students who are unable to attend.

Candidates are required to be present at the correct time and place. Misreading or misunderstanding of the time and/or the location of an assessment will not be accepted as a reason for failure to attend an assessment. Non-attendance on these or any other grounds insufficient to claim illness or misadventure will result in forfeiture of marks associated with the assessment.

In certain circumstances, a student may be permitted to take examinations overseas, generally at a nominated university. These circumstances usually relate to travel for study purposes or for experience directly connected with studies approved by a School or Department. It is the responsibility of the student to obtain the approval of the Head of School/Department through Student Administration (Cumberland) before proceeding overseas.

Approved Assessment Periods

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

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

Assessment Timetables

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

Candidates are required to notify Student Administration (Cumberland) in writing of any clashes apparent in the provisional timetable. It is the responsibility of the candidates to ascertain the time and place of the examination from the final timetable. Information concerning timetables will not be given by telephone. Any amendments to the final timetable will be notified on Official Notice Boards on Cumberland Campus only.

Rules of Conduct of Written Examinations

Candidates will be admitted to the examination room ten minutes before the scheduled examination commencement time. During examinations in Weeks 15 and 16, candidates must sit in their allocated seat number. 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 30 minutes of the examination writing period has elapsed nor will any candidate be permitted to leave the examination room within 30 minutes of the examination writing period.

No candidate shall be permitted to leave the examination room during the last ten (10) minutes of the assessment.

No material, except pen, pencil, ink, ruler and eraser may be taken into the examination room, unless instructions to the contrary are given. Candidates should be equipped with a ball point pen, black lead (B) pencils, and an eraser. Other materials, such as notes, books and papers, which may be used for benefit by a candidate, will not be permitted into the examination room, unless instructions to the contrary are given.

Candidates must answer the examination in the booklet or answer sheet provided and should only write answers on the ruled pages of the answer booklet. No talking is allowed in the examination room. Should material or information be required the raising of the hand will secure the attention of a supervisor.

A warning will be given ten minutes before the time for the completion of the examination. When that time elapses, candidates must immediately cease writing.

The title page of each booklet must be fully completed. The booklets should be submitted as directed by the Presiding Officer. No paper, with the exception of the question paper where permitted, maybe taken from the examination room.

In the case of an objective test or completion-type test, both the question paper and the answer sheet must remain in the examination room.

Candidates are not permitted to take bags, briefcases, folders, umbrellas, hats, mobile phones, pagers, etc., into the examination room except with the express approval of the Presiding Officer. Small money purses only may be taken into the room, however, they must be placed on the floor. In exceptional circumstances, and only with the express permission of the Presiding Officer, other articles may be brought into the examination room. They must also be placed on the floor.

Smoking or eating will not be permitted in the examination room nor will candidates be permitted to leave the room to smoke or eat.

Note: Failure to comply with any of the above rules may necessitate disciplinary action by the University.

**Reading Time**

Reading time of ten minutes prior to the commencement of a written assessment may be allowed at the discretion of the examiner.

**Conduct of Candidates**

Candidates shall not, by any improper means, obtain or endeavour to obtain assistance in their work, or endeavour to give assistance to any other candidate.

Candidates shall not behave in such a way as will interfere with another candidate's right to undertake an assessment. Candidates shall not do anything designed to disadvantage other candidates during an assessment.

Misconduct in an assessment will be dealt with under the rules of the Faculty and the Statutes of the University of Sydney.

**Special Consideration**

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

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

**Disability**

Candidates suffering from a disability which puts them at a disadvantage in assessments may apply to Student Administration (Cumberland) prior to the assessment period for special provisions when the assessments are taken. Students may be required to support their request with medical evidence.

**Recording of Results**

Students' results will be recorded using the following grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD</td>
<td>High Distinction</td>
</tr>
<tr>
<td>D</td>
<td>Distinction</td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
</tr>
<tr>
<td>P</td>
<td>Pass</td>
</tr>
<tr>
<td>TP</td>
<td>Terminating Pass</td>
</tr>
<tr>
<td>I</td>
<td>Assessment Incomplete</td>
</tr>
<tr>
<td>AS</td>
<td>Advanced Standing</td>
</tr>
</tbody>
</table>

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<tr>
<td>HD</td>
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<tr>
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</tr>
<tr>
<td>CR</td>
<td>Credit</td>
</tr>
<tr>
<td>P</td>
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</tr>
<tr>
<td>TP</td>
<td>Terminating Pass</td>
</tr>
<tr>
<td>I</td>
<td>Assessment Incomplete</td>
</tr>
<tr>
<td>AS</td>
<td>Advanced Standing</td>
</tr>
</tbody>
</table>

Indicates an outstanding level of achievement
Indicates an excellent level of achievement
Indicates an above average level of achievement
Indicates an acceptable level of achievement
Indicates an acceptable level of achievement in an Honours unit when the student is transferring to the associated Pass program
Indicates assessment in the unit is yet to be completed
Indicates the awarding of credit transfer in the unit of study

Administrative Information
Notification of Results

Results for terminating units will be formally released by the Examinations Branch as follows:

End of March Semester
Units that, according to the Faculty Handbooks, are presented only in March Semester.

End of August Semester
Units that, according to the Faculty Handbooks, are presented either in August Semester only or are presented over both March and August semesters.

Availability of Results for Terminating Units
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.

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 unit. Details of the assessment procedures used to determine the final result are available from the School/Department presenting the unit.

The relationship of grades to percentage marks is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Distinction</td>
<td>85-100</td>
</tr>
<tr>
<td>Distinction</td>
<td>75-84</td>
</tr>
<tr>
<td>Credit</td>
<td>65-74</td>
</tr>
<tr>
<td>Pass</td>
<td>50-64</td>
</tr>
<tr>
<td>Fail</td>
<td>below 50</td>
</tr>
</tbody>
</table>

It is important to note that the University does not use a set formula for determining the number of specific examination grades to be awarded in particular units. 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 unit.

<table>
<thead>
<tr>
<th>Unit</th>
<th>High Distinction</th>
<th>Distinction</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Year</td>
<td>3</td>
<td>14</td>
<td>42</td>
</tr>
<tr>
<td>2nd Year</td>
<td>3</td>
<td>16</td>
<td>46</td>
</tr>
<tr>
<td>3rd Year</td>
<td>4</td>
<td>18</td>
<td>50</td>
</tr>
</tbody>
</table>

The proportions of merit grades may vary from unit to unit 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 a 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.
- 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.

Notification of Results
Results for terminating units will be formally released by the Examinations Branch as follows:

End of March Semester
Units that, according to the Faculty Handbooks, are presented only in March Semester.

End of August Semester
Units that, according to the Faculty Handbooks, are presented either in August Semester only or are presented over both March and August semesters.

Availability of Results for Terminating Units
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.
With regard to supplementary assessments, the Senate of the University has resolved as follows:

**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 be granted to students who fail in more than two units.

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 unit, but the Examiner deems there is doubt about the result; or

c) the student has failed one or more compulsory sections of a unit even though the composite mark may be greater than 49.9. Students in such a unit must have been advised at the start of the unit of any special requirements, e.g. the need to pass all sections or particular sections of the unit.

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 (i.e. Head of School/Department) and held prior to the Board of Examiners meeting, or maybe granted by the Board of Examiners. Should the Examiner grant a supplementary assessment following the completion of all assessments in a unit 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 unit (academic or clinical) which must be completed satisfactorily in order to pass the unit, 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 unit then the mark achieved in that assessment becomes the mark for the unit. Where the post assessment is in a part of a unit, then the mark achieved in that assessment will be aggregated with the mark previously achieved in the other part of the unit. The passing grade awarded following a post assessment is XP (no mark or a mark of 50 or more).

**Completion of Assessment Requirements**

All deferred and post assessment requirements (with the exception of clinical placements), must be completed by the end of Week 2 of the following semester.

**Review of Results in a Completed Unit**

Final results in a completed unit may be reviewed on request by students. Such a review will consist primarily in ensuring that all submissions in relation to a grade have been accounted for and that the total of all marks awarded is correct.

Applications for the review must be submitted in writing to Student Administration (Cumberland), within fourteen days of the date on which the results in question have been released.

Students dissatisfied with the outcome of a review of their result may choose to appeal the result by using the procedures approved in the Faculty for an Appeal against an Academic Decision.

**Appeals Against an Academic Decision**

The Faculty of Health Sciences has established procedures whereby a student may appeal against an academic decision. In the first instance students should seek a response from the staff member concerned, or the Subject/Coordinator. If not satisfied, the student should seek an interview with the Head of School/Department to discuss the matter. If not satisfied with the response from the School/Department, the student may appeal to the Dean. Information on these procedures can be obtained from the Office of the Dean.

**Grading"with Distinction"**

Outstanding achievement in some of the 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 units of the undergraduate course completed. Unit assessment in all stages of a given course will contribute equally towards a final ranking of students.

**Note:** Only applies to students who commenced undergraduate programs in the Faculty of Health Sciences before 1999.
Progression and Exclusion

Progression

To satisfy the academic requirements for a University award, students must obtain a passing grade in all units in their courses.

Students must repeat failed units or their equivalent at the first opportunity and will be permitted to progress to the next semester carrying failed units, 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 units.

Students who do not follow normal progression in clinical education units 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 unit 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 units 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 unit(s), shall be initially prompted, but not necessarily be placed on 'show cause', by a message on their Assessment Notice. Students who are to be placed on 'show cause' will receive written notification from the Faculty. Students are permitted to re-enrol and/or continue enrolment until the final decision has been taken.

Showing Cause

Students so notified of pending exclusion may exercise the right to show good cause why they should be permitted to re-enrol. While it is not possible to define in advance all the reasons relevant to showing 'good cause' against exclusion, serious ill health or misadventure (properly attested) will be considered. In addition, the general record of a student, for example in other units, 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 unit(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 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 units in which the student is eligible to be enrolled.

Re-admission After Exclusion

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

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

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

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

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

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 or Centre for a period not exceeding two months in any one year. In the case of absences in excess of two months, students must apply for Leave of Absence.

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

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

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

The Official Notice Boards are located in the following buildings:
• A Block - northern entrance
• R Block - outside main entrance

Student Records
Student records are issued with the authority of the Registrar by Student Administration (Cumberland). Student records shall include:
• end-of-semester Assessment Result Notices;
• transcripts of Academic Records;
• any other student records approved by the Head, Student Administration (Cumberland).

Transcripts of academic records are available to:
• individual students, upon written request;
• third parties, upon receipt of a written authority of the student; institutions or organisations approved by the Head, Student Administration (Cumberland) from time to time.

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

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

Failure to complete assignments, class exercises or other set work will mean that the student may not be eligible for a passing grade in the unit 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/Centres.
5 Department of Behavioural Sciences

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

Other units are designed to enable graduates to understand issues related to policy making and to organisations involved in health delivery systems. Ageing, ethnicity and concerns relating to special interest groups are considered. The research methods strand enables graduates to read the professional literature critically and to conduct research in their chosen profession.

The Department will launch an undergraduate program in Behavioural Health Science in 1999. Postgraduate programs are offered by the Department leading to doctoral and masters degrees. These degrees are undertaken both by health professionals and by graduates with a major in either psychology or sociology. The staff of the Department have been extensively involved in research, including being the recipients of competitive grants; publishing research in international refereed journals and books; and organising national and international conferences on various aspects of behavioural medicine.

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**Health Sociology Major**

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### Honours Program

**Year 4 Honours program (to be first offered in 2002)** This is an additional year following the 3-year Pass Course

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* **Sociology Electives** (offered subject to minimum enrolment) - 3 credit points each

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+ **Psychology Electives** (offered subject to minimum enrolment) - 3 credit points each

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# **Elective Studies** may be taken from within or outside the Faculty of Health Sciences, subject to availability and prerequisites. Students must discuss their electives with their academic advisor prior to enrolment.

@ **Research Electives** - 6 credit points each

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Bachelor of Behavioural Health Science

The pass program in Behavioural Health Science is designed to provide a generic undergraduate qualification in Behavioural Health Science. The core curriculum focuses on areas of Health Sociology and Health Psychology of special importance for professionals working in health and community settings. Graduates will also be equipped with skills in research methodology and evaluation, policy analysis and development, communication, negotiation, and dispute resolution. Graduates will find employment in a range of health delivery organisations and community settings as direct service providers, project officers, policy analysts, and research officers. Some positions may require graduates to have completed at least the four year program, or to build on their three year undergraduate qualification with further studies (positions as research officers, project officers, policy analysts). Graduates would also be prepared for positions requiring them to develop and implement policy, and to evaluate health promotion programs.

The pass program is offered on a full-time basis, and requires successful completion of 144 credit points. Students elect to undertake a major sequence of studies in either Health Psychology or Health Sociology at the end of the first year. An additional year of full-time study equal to 48 credit points is required to complete the honours program. Entry to the honours program is restricted to students who have achieved academic excellence in their area of major study during their first three years. Elective units taken from within and outside the Faculty of Health Sciences are available throughout the program, and students should discuss elective choices with their academic advisor prior to enrolment.

Admission Requirements

The general admission requirements listed in Chapter 3 apply. It is recommended that students applying on the basis of Higher School Certificate results have a minimum of 2 units of English or 2 units of Mathematics.

Honours Electives (offered subject to minimum enrolment) - 4 credit points each

BEHS4052 (104A4) Abnormal Psychology and Mental Health
BEHS4053 (104A5) Addictive Behaviours
BEHS4054 (104A6) Cognitive Function in Neurological Disorders
BEHS4055 (104A7) Organisational Psychology
BEHS4056 (104A8) Stress and Coping
BEHS4057 (104A9) Stress and Disability
BEHS4058 (104B0) Disability and the Community
BEHS4059 (104B1) Ethnic Minorities and Health Care in Australia
BEHS4060 (104B2) Health and Cultural Pluralism
BEHS4061 (104B3) Occupational Health and Stress
BEHS4062 (104B4) Organisational Structures in Health Contexts

Course Outline

The course outlines for the Bachelor of Behavioural Health Science Pass and Honours courses are presented in Table 5-1.

Unit Descriptions

Core Units of Study

Year 1

BEHS1124 (101E2) Introduction to Health Psychology

Semester 1 - 6 Credit Points

This unit provides an introduction to fundamental areas of psychology relevant to health. Psychology is the study of the mind and human behaviour, and the richness of this field is explored in this unit. Major topics include the study of emotion and motivation, learning and cognition, personality, abnormal psychology, health psychology, and theories of development across the life span. At the completion of the unit students will be expected to have a sound understanding of the major principles informing psychology, the notion of empiricism and scepticism as necessary for the acquisition of knowledge, and an understanding of the major schools in psychology. Students will also be expected to have a clear understanding of how psychology impacts upon daily life in general, and health in particular. Lectures are accompanied by seminars in which practical exercises are undertaken, and where the development of sound social science writing skills is facilitated.
BEHS1125 (101E3) Social Psychology and Communication
Semester 2 - 6 Credit Points
Pre-requisite Introduction to Health Psychology B (BEHS1124)
This unit comprises two modules. Module 1 provides students with theoretical and applied perspective's on topics such as social perception, altruism, interpersonal relations, attitudes and behaviour, aggression, violence, conformity and obedience, one of which will examined in greater depth in an independent study component. The student is expected to demonstrate both research and analytic skills in this component of the unit. The second module introduces the student to theories of therapeutic communication, basic counselling skills, and special applications of communication such as team decision making, conflict resolution and dealing with crisis and loss. Communication lectures introduce the students to techniques and approaches involved in the development of sound oral and group communication skills, and complements the development of written skills acquired in Introduction to Health Psychology.

BEHS1126 (101E4) Introduction to Health Sociology
Semester 1 - 6 Credit Points
This unit provides an understanding of basic sociological concepts and theories and their applications in analysing health in Australia. The unit also develops the ability to critically examine and evaluate aspects of society often taken for granted in order to extend the students understanding of the social structures, institutions and processes relevant to health in Australia. Students will apply the approach in assessing the major problems confronting the delivery of health services in Australia. The unit also provides opportunities for enhancing linguistic, writing, and analytical skills by introducing some of the sociological methods of collecting, analysing and reporting health data.

BEHS1127 (101E5) Clients, Practitioners and Organisations
Semester 2 - 6 Credit Points
Pre-requisite Introduction to Health Sociology (BEHS1126)
This unit examines sociological perspectives relating to work, organisations and clients. It integrates organisational dimensions and problems of client interactions, aspects of work and non-work, and sociological approaches to practitioner-client relationships. Students will be expected to develop a series of alternate organisational approaches in a problem solving exercise.

BEHS1128 (101E6) Professional Practice and Ethics I
Semester 1 - 5 Credit Points
This unit introduces the student to the broad requirements of working at both the clinical and policy level in the health system. The unit introduces students to notions of values and conflicts, and explores the role of ethics, and ethical reasoning, within contemporary approaches to public life and health service delivery. The role of professionalisation, registration, and interest groups as promoting codes of conduct and the implications of these for both legal and ethical practice will be considered. The unit also provides information relating to the various laws pertaining to health practice, such as Duty of Care legislation, privacy laws, and various mental health acts. Students will be introduced to the notion of a legislative framework as a special circumstance underlying health service activities, and the ability to read and reflect on this framework will be developed. The unit also provides an introduction to skills in negotiation and dispute resolution in work settings.

HIMT1039 (09139) Microcomputer Applications
Semester 1-3 Credit Points
In this unit students are introduced to microcomputers, including an operating system, a spreadsheet, and a word processing package. The students evaluate advantages and limitations of microcomputers in comparison to mainframe computers and learn to use email, the Internet, and CD-ROM.

BIOS1112 (111C1) Human Anatomy and Physiology A
Semester 1-4 Credit Points
This unit introduces cellular structures and function including cellular metabolism, protein synthesis and cell division. In order to understand the structure and functions of the cell, some aspects of chemistry and biochemistry will be discussed. Growth, development and aging of humans will also be covered. This unit includes a limited number of laboratory classes and tutorials. Independent learning modules are available.

BIOS1113 (111C2) Human Anatomy and Physiology B
Semester 2 - 4 Credit Points
This unit is an introduction to the systems of the body using the theme of homeostasis. The eight systems studied are the digestive, endocrine, cardiovascular, respiratory, nervous, renal, musculoskeletal and reproductive systems. This unit includes a limited number of laboratory classes and tutorials. Independent learning modules are available for student's use.
6 Department of Biomedical Sciences

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

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

Summary of Biomedical Sciences Units of Study

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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 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 Mrs Neryla Jolly, Head of School of Applied Vision Sciences. (Ph: 02 9351 9250, Fax: 02 9351 9359).

### Table 7.1 Bachelor of Applied Science (Orthoptics)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
<th>Sem 1</th>
<th>Sem 2</th>
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<tr>
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<td>1411</td>
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#### Pass Program

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<td>(101D3) Introduction to Psychology</td>
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<td>(11178) Introductory Neurobiology</td>
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<td>BIOS1073</td>
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| Stage Total | 48 | 24 | 24 |
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<td>BEHS1130</td>
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<td>BIOS2060</td>
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<td>ORTH2050</td>
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## Stage Total

| Stage Total | 48 | 24 | 24 |

## Year 3

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<td>ORTH3037</td>
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<td>ORTH3039</td>
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## Stage Total

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## Year 4

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<tr>
<td>ORTH4007</td>
<td>Ocular Motility Disorders II</td>
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<td>ORTH4008</td>
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## Stage Total

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## Honours Program

### Year 3

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<td>BIOS3032</td>
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<td>ORTH3035</td>
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<td>ORTH3037</td>
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<td>ORTH3038</td>
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<td>ORTH3039</td>
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## Stage Total

| Stage Total | 54 | 24 | 30 |
Bachelor of Applied Science (Orthoptics)

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

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

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

Admission Requirements

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

Course Outline

The course outlines for the Bachelor of Applied Science (Orthoptics) Pass and Honours courses are presented in Table 7.1.

Unit Descriptions

Year 1

BEHS1114 (101D2) Introduction to Health Sociology
Semester 1 - 4 credit points
This unit provides an understanding of basic sociological concepts and theories and their application in analysing health in Australia; and develops the ability to critically examine and evaluate aspects of society which are often taken for granted in order to extend the students understanding of the social structures, institutions and processes relevant to health in Australia. The unit also provides opportunities for enhancing linguistic, writing, and analytical skills by introducing some of the sociological methods of collecting, analysing and reporting health data. Also available in off-campus mode.

BEHS1115 (101D3) Introduction to Psychology
Semester 2 - 4 credit points
This unit provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.
Also available in off-campus mode.

BIOS1068 (11176) Introductory Human Biology
Semester 1 - 4 credit points
This unit 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, genetics and blood.

BIOS1070 (11178) Introductory Neurobiology
Semester 1 - 3 credit points
Co-requisite Introductory Human Biology (BIOS1068)
This unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1071 (11179) Neurobiology I
Semester 2 - 2 credit points
Pre-requisite Introductory Neurobiology (BIOS1072)
The unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1072 (11180) Optics I
Semester 1 - 2 credit points
This unit teaches students to the principles of geometrical optics, including the nature of light, image formation by lenses and mirrors, prisms, beam, limitation effects and aberrations.

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Credit Points</th>
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<td>ORTH4008</td>
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<td>ORTH4015</td>
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Stage Total: 60 28 32
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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

ORTH1074 (11182) Optics II
Semester 2 - 3 credit points
Pre-requisite Optics I (BIOS1072)
This unit introduces students to the principles of visual optics, including the eye as an optical system, and ophthalmic instruments

ORTH1031 (14131) Clinical Instrumentation IA
Semester 1 - 5 credit points
An introduction to the attainment of professional orthoptic skills including communication and observation skills, patient assessment and information recording related to general ocular examination will be taught. Small group on campus tutorial sessions will provide the opportunity to practise clinical procedures. A component of this unit is off campus attendance at a community placement. The aim of this placement is to enhance the communication and observation skills of the student.

ORTH1032 (14132) Clinical Instrumentation IB
Semester 2 - 6 credit points
The attainment of professional skills will be further developed with the emphasis on the assessment of strabismus and eye movement disorders. An off campus clinical placement will be arranged during the semester to support the development of professional conduct as well as the integration of basic theoretical concepts to clinical practice.

ORTH1026 (14126) Visual Processes
Semester 1 - 3 credit points
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.

ORTH1027 (14127) Binocular Vision
Semester 2 - 2 credit points
The principles of binocular vision, its anatomical and physiological substrates, are introduced. Topics covered include projection, corresponding retinal points, horopter, physiological diplopia, fusion, superimposition, BSV, stereopsis and the accommodation/convergence synkinesis. Factors determining misalignment of the visual axes and its assessment and sensory sequelae are also introduced including suppression, amblyopia and ARC.

ORTH1028 (14128) Disorders of the Visual System IA
Semester 1 - 3 credit points
This unit 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.

ORTH1029 (14129) Disorders of the Visual System IB
Semester 2 - 3 credit points
This unit covers a study of ophthalmic history taking, cataract (its causes, types, investigation and management), ocular emergencies, an introduction to visual fields.

BEHS2105 (102B7) Behavioural Science IIA
Semester 1 - 3 credit points
This unit develops themes introduced to students in 101D2 and 101D3. Topics covered are patients, work and organisations; visual perception and learning disability; and life stress.

BEHS2106 (102B8) Behavioural Science MB
Semester 2 - 3 credit points
This unit develops themes introduced to students in 101D2. Topics covered are developmental disability; behaviour therapy; and social psychology.

BEHS1130 (101E8) Research Methods I
Semester 1 - 3 credit points
This unit briefly considers the philosophy of science and covers research ethics, qualitative and quantitative research, development of research questions, 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. The importance of research methods to evidence-based practice will be emphasised.

BEHS1152 (101F6) Research Methods II: Data Analysis Statistics
Semester 2 - 3 credit points
Pre-requisite Research Methods I: Design or Research Methods I
This unit of study introduces prospective health science practitioners to methods for exploring and understanding qualitative and quantitative data with an emphasis on interpretation and implications for outcomes and quality assurance. Methods for collecting, exploring, and presenting data are discussed from the perspective of the practitioner. Qualitative and quantitative methodologies, numerical summaries and graphical methods are covered for both one and two variables, comparisons and relationships. Emphasis is placed on explaining patterns in data, outliers, variability, possible causes and mechanisms which generate the data. Distributions are introduced with particular reference to their substantive generating mechanisms. In particular, normal curves, survival type curves and sampling distributions are examined with methods for investigating trends and departures from the overall pattern. The nexus between qualitative and quantitative methodologies is explored in the context of inference and scientific method. Inferential procedures for one and two variables, comparisons and relationships are used to illustrate this interdependence.
This is an introduction to microbiology and immunology, including microorganism structure, classification and growth, sterilisation and disinfection, nosocomial infections, selected infectious diseases and their transmission, immunology of cancer, transplantation rejection and immunological disorders. There is also a discussion of immunology of cancer, transplantation rejection and growth, sterilisation and disinfection, nosocomial infections, including micro-organism structure, classification and growth.

These skills include those of contact lens fitting and individualisation, slit lamp assessment, vertometry and orthoptic assessment and management of non accommodative deviations.

In this unit, 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.

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.

Students will be exposed to various clinical situations and the units Concomitant Strabismus B and Disorders of the Visual System IIB are studied in small group tutorial sessions. These skills include those of visual field assessment, refraction and retinoscopy, ophthalmoscopy and orthoptic assessment and management of non accommodative deviations.

In this unit the assessment of refractive error and special procedures will be examined in greater depth.

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.

Students will be exposed to various clinical situations and the units Concomitant Strabismus B and Disorders of the Visual System IIB are studied in small group tutorial sessions. These skills include those of visual field assessment, refraction and retinoscopy, ophthalmoscopy and orthoptic assessment and management of non accommodative deviations.
In this unit, 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.

ORTH3035 (14335) Clinical Studies III
Semester 1 - 21 credit points
Pre-requisite Clinical Studies IIA or ORTH2053
Pre-Co-requisite Disorders of the Visual System IIA (ORTH2048) OR Disorders of the Visual System IIB (ORTH2049), Instrumentation IIA or IIB (ORTH2050 or ORTH2051), Concomitant Strabismus A (ORTH2047) OR Concomitant Strabismus B (ORTH2043), Clinical Project (ORTH3036)

Experiences encountered will consolidate theory presented in the program thus far and will especially relate to the second year units Instrumentation II, Concomitant Strabismus A and B and Disorders of the Visual System IIA and IIB. Students will be required to maintain a close liaison with the clinical coordinator and attend case analysis sessions at the School. Students will also carry out a clinical project during this placement.

ORTH3036 (14336) Clinical Project
Semester 1 - 3 credit points
Co-requisite Clinical Studies III (ORTH3035)

Students will carry out structured clinical exercises in one or more of the following area: visual field testing, strabismus / binocular vision or retinoscopy.

ORTH3037 (14337) Ocular Motility Disorders I
Semester 2 - 4 credit points
Pre-requisite Concomitant Strabismus A (ORTH2047) OR Concomitant Strabismus B (ORTH2043)
Co-requisite Instrumentation III (ORTH3040)
The causes, special investigations and management of incomitant squint resulting from restrictive (mechanical) disorders and congenital syndromes will be studied.

ORTH3038 (14338) Disorders of the Visual System III
Semester 2 - 4 credit points
Pre-requisites Disorders of the Visual System IIA (ORTH2048) or Disorders of the Visual System IIB (ORTH2049)
Pre-Co-requisite Instrumentation III (ORTH3040)
This unit reviews testing procedures for the paediatric population with emphasis on visual assessment. The role of the orthoptist in vision screening programs is also studied.

ORTH3039 (14339) Rehabilitation Studies I
Semester 2 - 4 credit points
Pre-Co-requisite Disorders of the Visual System IIA (ORTH2048) OR Disorders of the Visual System IIB (ORTH2049), Ocular Motility Disorders I (ORTH3037)
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.

ORTH3040 (14340) Instrumentation III
Semester 2 - 2 credit points
The instrumentation and special procedures appropriate to the units Ocular Motility Disorders I, Disorders of the Visual System III and Rehabilitation Studies I, are 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.

ORTH3041 (14341) Elective Study
Semester 2 - 3 credit points
Students negotiate an approved study, either from within the School of Orthoptics or from another School or Department in the Faculty of Health Sciences or the wider University. The choice of study will be dependant on availability and timetabling constraints.

Year 4

BIOS 4029 (11466) Visual Science
Semester 1 - 4 credit points
This unit discusses nervous system plasticity in general and ocular motorplasticity in particular and continues the study of neuro-opthalmology. There is also a substantial practical component on computers in orthoptic practice.

ORTH4007 (14408) Ocular Motility Disorders II
Semester 1-4 credit points
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.

ORTH4008 (14409) Disorders of the Visual System IV
Semester 1-4 credit points
This unit 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.

ORTH4009 (14410) Rehabilitation Studies II
Semester 1 - 4 credit points
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.

ORTH4010 (14411) Professional Studies
Semester 1 - 4 credit points
Special issues relating to professional practice are discussed, covering complex case studies, medico legal issues, ethics, and occupational health.

ORTH4012 (14413) Clinical Studies IV
Semester 2 - 20 credit points
This placement provides the clinical experiences that consolidate the second semester year 3 and first semester year 4 theoretical units, 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 unit.
BEHS4041 (10493) Developing a Research Project
Semester 1 - 4 credit points
The unit 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 unit is usually offered on Mondays from 5-8pm.

ORTH4011 (14412) Research Project
Semester 2 - 4 credit points
Students will carry out a guided research exercise relevant to orthoptic practice.

ORTH4013 (14414) Professional Elective
Semester 2 - 4 credit points
Students will carry out a guided theoretical and clinical elective study in one of the following - low vision, developmental delay, stroke rehabilitation, vision and driving, contact lenses, ocular motility, visual electrodiagnosis, practice issues.

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

Year 3

Honours students will enrol in the pass units Ocular Motility Disorders I (ORTH3037), Disorders of the Visual System I (ORTH3038), Rehabilitation Studies I (ORTH3039), Instrumentation m (ORTH3040), Bio-electrical Signals and Computing (BIOS3031), Embryology and Neural Plasticity (BIOS3032) and Clinical Studies m (ORTH3035) in addition to the following units:

BEHS3056 (103A6) Research Statistics
Semester 2 - 3 credit points
In this unit, 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 maybe used in the Honours research project.

ORTH3042 (14342) Clinical Project (Honours)
Semester 2 - 3 credit points
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.

Semester 1 - 3 credit points
Semester 2 - 3 credit points
Students will develop in detail the area of research for their thesis. The emphasis in this unit will be a critical analysis of available literature, the development of a research proposal, and the presentation of these to a critical audience.

Year 4

Honours students will enrol in the pass units Ocular Motility Disorders II (ORTH4007), Disorders of the Visual System IV (ORTH4008), Rehabilitation Studies II (ORTH4009), Professional Studies (ORTH4010), Visual Science (BIOS4029) in addition to the following units:

Semester 1 - 8 credit points
Semester 2 - 12 credit points
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 unit Clinical Studies TV (ORTH4015).

ORTH4015 (14416) Clinical Studies IV
Semester 2 - 20 credit points
This placement provides the clinical experiences that consolidate the second semester year 3 and first semester year 4 theoretical units, as well as providing an opportunity to integrate all components of the course. Students will be required to attend case analysis sessions and conduct the off campus component of their professional elective in this unit.
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 on (02) 9 351 9250.

1999 Clinical Practice Dates

The clinical blocks for 1999 are scheduled as follows:
- Year 1
  - During Semester 1 and 2
- Year 2
  - January 27 - February 26 OR July 5 - August 6
- Year 3
  - March 1 - June 11
- Year 4
  - August 9 - December 3

Uniforms

Students in the orthoptics course are required to obtain uniforms to be worn at most clinical placements. A faculty name badge, available from Student Guild, is to be worn at all clinical placements.

Female
- Regulation navy blue uniform or culottes, navy trousers, or skirt and white shirt
- Navy cardigan or jacket
- 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 at the end of Semester 1, 1999.
The School of Communication Sciences and Disorders is the first and the largest program in communication sciences and disorders in New South Wales and among the largest of programs in Australia. Opportunities are offered for students to study for a:

- 4-year, professionally qualifying Bachelor's degree in Speech Pathology at the Honours and Pass levels - Bachelor of Applied Science (Speech Pathology) (Hons) and Bachelor of Applied Science (Speech Pathology)
- 3-year Bachelor's degree in Hearing and Speech at the Pass level - Bachelor of Health Science (Hearing and Speech) and an additional fourth year at the Honours level (Bachelor of Health Science (Hearing and Speech) (Hons))
- Master of Applied Science (Communication Sciences and Disorders) by research
- Master of Communication Disorders, by research
- Doctor of Philosophy (PhD) in areas related to communication sciences and disorders

Because of its size and maturity, the School has an internationally reputed and published academic staff. This advantage provides students with the distinct benefit of studying with experts in their fields, individuals who are researchers in the areas in which they teach. Together, expert academics and master clinical staff offer a mentored and stimulating clinical learning environment and research opportunities in the School's large on-campus Communication Disorders Treatment and Research Clinic and Speech Science Laboratory.

The degree designed to prepare individuals to practise as Speech Pathologists (formerly known as Speech Therapists) is the Bachelor of Applied Science (Speech Pathology) course. The field of Speech Pathology involves the study and treatment of communication disorders in both children and adults. Speech Pathologists assess and treat in medical, educational, and private settings a wide variety of disorders resulting from varied aetiologies. An alternative to the professional speech pathology course is the study of Hearing and Speech in Bachelor of Health Science (Hearing and Speech) course. This course prepares students to pursue, for example: employment in commercial fields involved in developing or marketing speech and/or hearing products; careers in research in universities, hospitals and commercial research and development laboratories; positions as hearing health educators or health promotion workers; further education in areas such as medicine, health services management, rehabilitation counselling, gerontology, or in particular, professional preparation as an audiologist by entering graduate study in audiology. The Hearing and Speech course provides an excellent grounding for entry into audiology. An Honours program is available for each of these two courses and provide 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 courses, at the graduate level the Master of Communication Disorders course provides speech pathologists with the opportunity to develop specialisation in a clinical area via research. The Master of Applied Science course in Communication Sciences and Disorders is a research program designed to prepare individuals to pursue their career objectives as specialist clinicians, administrators, academics, or researchers in the field of communication sciences and disorders. In both programs topics are individualised for students in order for them to meet their specific career objectives.

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

The School of Communication Sciences and Disorders has a variety of facilities and resources that support its teaching, student clinical practice, research and community service activities. As indicated above, the School's on-campus specialist area houses the Communication Disorders Treatment and Research Clinic which is a centre of excellence that serves communicatively impaired children and adults. The Audiology Clinic and the Cumberland Stuttering Research and Treatment Clinic are part of this Clinic. Other unique facilities are student units located in various hospitals and centres in the Sydney metropolitan and country NSW areas.

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

Information about the School and its courses of study can be obtained from Student Administration (Cumberland), 9351 9161, or from the Admissions Co-ordinator in the School of Communication Sciences and Disorders, 9351 9450, or from the School's web page (http://www.cchs.usyd.edu.au/Academic/CD).
Table 8.1 Bachelor of Applied Science (Speech Pathology)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name and Code</th>
<th>Mode of Offer</th>
<th>Semester 1 Credits</th>
<th>Semester 2 Credits</th>
</tr>
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<tbody>
<tr>
<td>1206</td>
<td>Introductory Psychology</td>
<td>Full-time, 4 years</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>1217</td>
<td>Cognitive Developmental Psychology</td>
<td>Honours Program, Full-time, 4 years</td>
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**Year 1**

<table>
<thead>
<tr>
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<th>Course Name</th>
<th>Semester 1 Credits</th>
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<tbody>
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<td>BEHS1099 (101B5)</td>
<td>Introductory Psychology</td>
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<tr>
<td>BEHS1100 (101B6)</td>
<td>Cognitive Developmental Psychology</td>
<td>3</td>
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<tr>
<td>BEHS1129 (101E7)</td>
<td>Research Methods I: Design</td>
<td>3</td>
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<tr>
<td>BEHS1102 (101B8)</td>
<td>Disorders and their Management</td>
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<td>BIOS1068 (11176)</td>
<td>Introductory Human Biology</td>
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<td>BIOS1070 (11178)</td>
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<tr>
<td>BIOS1071 (11179)</td>
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<td>BIOS1118 (111C5)</td>
<td>Hearing Science</td>
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<td>BIOS1116 (111C3)</td>
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<td>BIOS1117 (111C4)</td>
<td>Speech Science II</td>
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<td>CSCD1024 (12124)</td>
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<td>CSCD1025 (12125)</td>
<td>Professional Development I: Introduction to Clinical Learning</td>
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<td>CSCD1026 (12126)</td>
<td>Phonetics I</td>
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<tr>
<td>CSCD1028 (12128)</td>
<td>Normal Communication Development</td>
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<tr>
<td>CSCD1029 (12129)</td>
<td>Articulation and Phonology</td>
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**Stage Total** 48 24 24

**Year 2**

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<thead>
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<th>Course Name</th>
<th>Semester 1 Credits</th>
<th>Semester 2 Credits</th>
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<tr>
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<td>Cognitive Neuropsychology I</td>
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<tr>
<td>BEHS1131 (101E9)</td>
<td>Research Methods II: Data Analysis and Statistics</td>
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<tr>
<td>BIOS2062 (112B3)</td>
<td>Neurobiology II for Communication Disorders</td>
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<td>CSCD2030 (12278)</td>
<td>Voice Science and Disorders</td>
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<td>CSCD2041 (12289)</td>
<td>Language Impairments in Children I</td>
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<td>CSCD2042 (12290)</td>
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<td>CSCD2043 (12291)</td>
<td>Stuttering</td>
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<td>CSCD2051 (12299)</td>
<td>Professional Development II: Clinical Skills</td>
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<td>CSCD2052 (122A0)</td>
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<td>CSCD2035 (12283)</td>
<td>Phonetics II</td>
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<tr>
<td>CSCD2040 (12288)</td>
<td>Audiology I</td>
<td>3</td>
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<td>CSCD2046 (12294)</td>
<td>Audiological Management I</td>
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<tr>
<td>CSCD2047 (12295)</td>
<td>Speech and Language Impairments of Neurological Origin I</td>
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<tr>
<td>CSCD2048 (12296)</td>
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<td>CSCD2049 (12297)</td>
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**Stage Total** 48 24 24

**Year 3**

<table>
<thead>
<tr>
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<th>Course Name</th>
<th>Semester 1 Credits</th>
<th>Semester 2 Credits</th>
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<tbody>
<tr>
<td>BEHS3057 (103A7)</td>
<td>Cognitive Neuropsychology II</td>
<td>3</td>
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<tr>
<td>BEHS1133 (101F1)</td>
<td>Introduction to Health Sociology</td>
<td>2</td>
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<td>BEHS1146 (101F3)</td>
<td>Clients, Practitioners and Organisations</td>
<td>2</td>
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<tr>
<td>BEHS3059 (103A9)</td>
<td>Patient Management: Theories and Applications</td>
<td>5</td>
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<tr>
<td>BEHS3060 (103B1)</td>
<td>Social and Health Psychology</td>
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<tr>
<td>BIOS3029 (11384)</td>
<td>Neurology for Communication Disorders</td>
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<tr>
<td>CSCD3023 (12327)</td>
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<tr>
<td>CSCD3024 (12328)</td>
<td>Communication Impairments in Special Populations</td>
<td>3</td>
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<tr>
<td>CSCD3036 (12340)</td>
<td>Language Impairments in Children III</td>
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<td>CSCD3032 (12336)</td>
<td>Professional Development III: Management Skills</td>
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<td>CSCD3037 (12341)</td>
<td>Swallowing Impairments</td>
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<td>CSCD3034 (12338)</td>
<td>Craniofacial Anomalies</td>
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<tr>
<td>CSCD3038 (12342)</td>
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<tr>
<td>CSCD3039 (12343)</td>
<td>Intermediate Speech Pathology Clinical II</td>
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</table>

**Stage Total** 48 24 24
**Year 4  Clinical-Professional Year**

Students in Year 4 of the course will be assigned to either Group A or B. Group assignment will be known by the end of Semester 1, Year 3. In Year 4, students in Group A enrol in units of study with the alpha "A" in the names of the units (eg., "Advanced Topics A") while students in Group B enrol in units of study containing the alpha "B" in the name (eg., "Advanced Topics B").

**Group A**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem 1</th>
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<tbody>
<tr>
<td>CSCD4026</td>
<td>(12431) Advanced Topics A</td>
<td>6</td>
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<tr>
<td>CSCD4027</td>
<td>(12432) Professional Development IVA: Advanced Issues</td>
<td>6</td>
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<tr>
<td>CSCD4028</td>
<td>(12433) Advanced Speech Pathology Clinical IA</td>
<td>12</td>
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<td>CSCD4039</td>
<td>(12434) Advanced Speech Pathology Clinical IIA</td>
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*Stage Total* 48 24 24

**Group B**

<table>
<thead>
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<th>Title</th>
<th>Sem 1</th>
<th>Sem 2</th>
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<tbody>
<tr>
<td>CSCD4030</td>
<td>(12435) Advanced Topics B</td>
<td>6</td>
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<tr>
<td>CSCD4031</td>
<td>(12436) Professional Development IVB: Advanced Issues</td>
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<td>CSCD4032</td>
<td>(12437) Advanced Speech Pathology Clinical IB</td>
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<td>CSCD4033</td>
<td>(12438) Advanced Speech Pathology Clinical IIB</td>
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*Stage Total* 48 24 24

Completion of the requirements of the 4-year Bachelor of Applied Science (Speech Pathology) course meets the eligibility requirements for practising membership status of the Speech Pathology Association of Australia.

**Honours Program**

Although students in the Honours program of the Bachelor of Applied Science (Speech Pathology) course undertake the same Year 1 and Year 2 units of study as students in the Pass course, their course structure in Years 3 and 4 differs. Students in the Honours program enrol in the following units of study.

**Year 3**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem 1</th>
<th>Sem 2</th>
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<tbody>
<tr>
<td>BEHS1133</td>
<td>(101F1) Introduction to Health Sociology</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>BEHS1146</td>
<td>(101F3) Clients, Practitioners and Organisations</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>BEHS3059</td>
<td>(103A9) Patient Management: Theories and Applications</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>BEHS3057</td>
<td>(103A7) Cognitive Neuropsychology II</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>BEHS3060</td>
<td>(103B1) Social and Health Psychology</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>BIOS3029</td>
<td>(11384) Neurology for Communication Disorders</td>
<td>1</td>
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</tr>
<tr>
<td>CSCD3023</td>
<td>(12327) Speech and Language Impairments of Neurological Origin II</td>
<td>4</td>
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<tr>
<td>CSCD3024</td>
<td>(12328) Communication Impairments in Special Populations</td>
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<td>CSCD3037</td>
<td>(12341) Swallowing Impairments</td>
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<td>CSCD3050</td>
<td>(12348) Intermediate Speech Pathology: Clinical IH</td>
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<td>CSCD3048</td>
<td>(12346) Audiological Management II</td>
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<td>CSCD3034</td>
<td>(12338) Craniofacial Anomalies</td>
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<td>3</td>
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<td>CSCD3036</td>
<td>(12340) Language Impairments in Children III</td>
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<td>(12349) Honours Research Seminar I: Literature Review</td>
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<td>(12350) Professional Development IIH: Management Skills</td>
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<td>CSCD3053</td>
<td>(12351) Intermediate Speech Pathology Clinical IIH</td>
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<td>CSCD3054</td>
<td>(12352) Honours Research Seminar II: Research Proposal</td>
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*Stage Total* 48 24 24

**Year 4  Clinical-Professional Year**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Sem 1</th>
<th>Sem 2</th>
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<tr>
<td>CSCD4035</td>
<td>(12440) Advanced Speech Pathology Clinical III</td>
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<td>(12441) Professional Development IVH: Advanced Issues</td>
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<td>(12442) Advanced Speech Pathology Clinical IIH</td>
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<tr>
<td>CSCD4038</td>
<td>(12443) Honours Thesis</td>
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</table>

*Stage Total* 48 24 24

**Notes**

- This unit includes a 3-week off-campus block placement either before or after Semester 2 as well as an on-campus clinical experience during Semester 2.
Bachelor of Applied Science (Speech Pathology)

The Bachelor of Applied Science (Speech Pathology) is the degree that qualifies individuals to practise as speech pathologists.

Full-time and Part-time Study

The Bachelor of Applied Science (Speech Pathology) is structured as a full-time degree course offered over 4 years, with expected enrolment in units totalling 24 credit points each semester. However, the School recognises that some students cannot attend full-time and wish to complete their degrees in a longer time. Within the School of Communication Sciences and Disorders, students enrolling part-time are those enrolled in a minimum of 10 and a maximum of 17 credit points per semester. Part-time students in Speech Pathology are expected to meet "satisfactory progress" requirements. These include:

- Enrolment in the equivalent of at least 4 full units of study per academic year, except when a student has fewer than 4 units remaining to complete requirements for graduation.
- Passing the equivalent of 6 units of study over any 2 academic year periods.
- Completion of all CSCD1xxx units of study prior to enrolling in any CSCD3xxx units.
- Completion of all year 1 units within two years. Only a limited number of places are available for part-time enrolment and students must be prepared to accept a part-time place in the course prior to applying for part-time enrolment. Students must seek approval to enrol part-time from the Head of School prior to enrolment at the beginning of the academic year. Any variation in approved enrolment status is not automatically granted and must be applied for.

Students requesting to enrol part-time should note that daytime attendance at lectures and clinic placements, as well as clinic block placements, are required for completion of the BAppSc (Speech Pathology) course. At this time, the option of part-time enrolment is only available to a few Year 1 commencing students.

Students enrolling part-time should also note the following:

- Part-time students must adjust their load so that they can complete the course within the maximum time. No extensions of maximum time will be granted.
- Minimum time: 6 years from the initial academic year of enrolment.
- Maximum time: 10 years from the initial academic year of enrolment.

Because the course is structured as a full-time course, students must be cognisant of the possibility of clashes in timetables for units when intending to enrol in units with different first numerals in their codes, e.g. CSCD2xxx and CSCD3xxx, and plan sufficiently well so they do not exceed the maximum time for course completion or they fail to meet “satisfactory progress” requirements, per above.

Students must meet pre-requisite and co-requisite requirements as specified for enrolment in specific units of study:

Where a unit of study has a co-requisite, a student is to enrol in that unit as well as the co-requisite in the same semester.

Where a unit of study is a pre-requisite, this pre-requisite unit must be passed prior to enrolment in any other units for which it is a pre-requisite.

Where a unit of study is a pre-requisite/co-requisite by permission for another unit, the pre/co-requisite unit may be completed in a prior semester or with permission in the same semester as the other unit.

A recommended background unit of study should be completed before enrolling in a unit for which it is listed. Enrolment in any unit of study without completion of recommended background units of study is not advised and students doing so carry the responsibility for their decision. In any case, a student wishing to enrol in a unit of study without completion of the recommended background units must consult with the unit's co-ordinator.

- Part-time students are completing their degree over a longer period of time and it is possible, and in fact likely, that there will be curriculum changes while they are undertaking their degree. Part-time students have the responsibility for monitoring changes in curriculum which may affect their progression and for discussing these with the Part-time Student Co-ordinator.

Admission Requirements

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

Course Outline

The course outline for the Bachelor of Applied Science (Speech Pathology) is presented in Table 8.1.

Unit Descriptions

Year 1

BEHS1099 (101B5) Introductory Psychology*

Semester 1-3 credit points

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

* Also available in off-campus mode.

BEHS1100 (101B6) Cognitive and Developmental Psychology

Semester 2 - 5 credit points

This unit provides an introduction to the logic, theory and methodology of cognitive psychology and extends the study of developmental psychology begun in Introductory Psychology to consider normal human development and developmental disability.
BEHS1102 (101B8) Disorders and their Management
Semester 2 - 4 credit points
This unit covers the theoretical background and nature of disturbed behaviours, including 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 classification of psycho-pathology for children and adults will be presented with evaluative comment. The types, variety and common symptoms of disorders and other important issues related to treatment will be presented. One approach to treatment, the cognitive behavioural method, will be considered.

BEHS1129 (101E7) Research Methods I: Design
Semester 1 - 3 credit points
This unit introduces students to the research process and focuses on developing informed consumers of research. The unit briefly considers the philosophy of science and covers research ethics, qualitative and quantitative research, development of research questions, specification of hypotheses and variables, conceptualisation and operationalisation, sampling issues, validity and reliability. A broad range of research methods will be introduced, such as 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 science including needs assessment, evaluation research, action research and epidemiology. The importance of research methods to evidence-based practice will be emphasised.

BIOS1068 (11176) Introductory Human Biology
Semester 1 - 4 credit points
This unit 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.

BIOS1070 (11178) Introductory Neurobiology
Semester 1 - 3 credit points
Co-requisite Introductory Human Biology (BIOS1068)
This unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1071 (11179) Neurobiology I
Semester 2 - 2 credit points
Pre-requisite or Co-requisite by permission Introductory Neurobiology (BIOS1070)
This unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1116 (111C3) Speech Science I
Semester 1 - 3 credit points
This unit of study aims to provide an understanding of the anatomy of speech mechanisms. It also includes the development of the embryo with special reference to the organs of speech. The unit of study includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1117 (111C4) Speech Science II
Semester 2 - 3 credit points
Co-requisite Hearing Science (BIOS1118)
Recommended background units of study Introductory Human Biology (BIOS1068); Speech Science I (BIOS1116)
This unit of study aims to provide an understanding of the physics, anatomy and physiology of the speech mechanisms and respiratory system. The unit of study includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1118 (111C5) Hearing Science
Semester 2 - 4 credit points
Co-requisite Speech Science II (BIOS1117)
Recommended background units of study Introductory Human Biology (BIOS1068); Speech Science I (BIOS1116)
This unit of study aims to provide an understanding of the physics, anatomy, and physiology of the hearing mechanism. Students will learn about pathologies of the ear, nose and throat and the medical management of some hearing disorders. The unit also includes the development of the ear and principles of abnormal embryonic development. The unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

CSCD1024 (12124) Linguistics
Semester 1 - 3 credit points
Nature of the communication system. Both formal and functional linguistic theories and methodologies are included. There is a skill-based component involving traditional analysis of syntax (grammar), for which attendance is required.
CSCD1025 (12125) Professional Development 1: Introduction to Clinical Learning
Semester 2 - 2 credit points
This unit of study introduces students to the learning orientation, professional communication skills, and basic clinical processes necessary for the course and professional practice. It provides structured observations of speech pathology clinics. Students begin their accumulation of professional development experiences required for their portfolio through involvement in relevant professional, community, or clinical services. Students become involved in the running and maintenance of the clinical Tests and Materials collection. Each student must show evidence of completion of an accredited First Aid Course (CPR) to be eligible to receive a "Pass" in this unit of study.

CSCD1026 (12126) Phonetics I
Semester 1 - 2 credit points

CSCD1028 (12128) Normal Communication Development
Semester 1 - 3 credit points
Normal communication development in English from birth to old age, across cultures relevant to Australia.

CSCD1029 (12129) Articulation and Phonology
Semester 2 - 4 credit points
Recommended background units of study Linguistics (CSCD1024); Normal Communication Development (CSCD1028); Phonetics I (CSCD1026)
Nature of phonological and articulatory disorders; techniques for the assessment, analysis, and intervention.

Year 2

BEHS1131 (101E9) Research Methods II: Data Analysis Statistics
Semester 1 - 3 credit points
Pre-requisite Research Methods I: Design (BEHS1129) or Research Methods I or Co-requisite by permission
This unit of study introduces prospective health science practitioners to methods for exploring and understanding qualitative and quantitative data with an emphasis on interpretation and implications for outcomes and quality assurance. Methods for collecting, exploring, and presenting data are discussed from the perspective of the practitioner. Qualitative and quantitative methodologies, numerical summaries and graphical methods are covered for both one and two variables, comparisons and relationships. Emphasis is placed on explaining patterns in data, outliers, variability, possible causes and mechanisms which generate the data. Distributions are introduced with particular reference to their substantive generating mechanisms. In particular, normal curves, survival type curves and sampling distributions are examined with methods for investigating trends and departures from the overall pattern. The nexus between qualitative and quantitative methodologies is explored in the context of inference and scientific method. Inferential procedures for one and two variables, comparisons and relationships are used to illustrate this interdependence.

BEHS2091 (102A3) Cognitive Neuropsychology I
Semester 2 - 5 credit points
Pre-requisite or Co-requisite by permission Cognitive and Developmental Psychology (BEHS1100)
This unit extends the study of normal cognition begun in Cognitive and Developmental Psychology, introduces the neuropsychological approach to brain-behaviour relationships and considers the cognitive neuropsychological approach to understanding fundamental cognitive processes.

BIOS2062 (112B3) Neurobiology II for Communication Disorders
Semester 1 - 6 credit points
Pre-requisite Neurobiology I (BIOS1071)
This unit of study considers the anatomy and physiology of special sensory systems and the control and integration of somatic motor activity with special reference to communication. 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 unit of study. This unit of study includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the unit of study.

CSCD2030 (12278) Voice Science and Disorders
Semester 2 - 4 credit points
Pre-requisite Speech and Hearing Science I (BIOS1098) and II (BIOS1099)
Pre-requisite or Co-requisite by permission Speech Science I (BIOS1116) and II (BIOS1117)
Current research on respiration and voice; instrumental procedures for measuring respiratory and vocal performance; nature of voice disorders; evaluation and management of individuals with a variety of phonatory disorders.

CSCD2035 (12283) Phonetics II
Semester 1 - 2 credit points
Recommended background units of study Phonetics I (CSCD1026); Normal Communication Development (CSCD1028); Speech and Hearing Science I (CSCD 1098); Speech and Hearing Science II (CSCD1099)
A study of the relationship between articulatory phonetics, acoustic phonetics and speech perception. An introduction to phonetic applications in speech pathology.

CSCD2040 (12288) Audiology I
Semester 1 - 3 credit points
Pre-requisite or Co-requisite by permission Speech and Hearing Science I (CSCD1098); Speech and Hearing Science II (CSCD1099)
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.
**CSCD2041 (12289) Language Impairments in Children I**  
**Semester 1 - 3 credit points**  
Pre-requisite or Co-requisite by permission Linguistics (CSCD1024), Normal Communication Development (CSCD1028)  
Language impairments occurring in specific language impaired children. Principles and practices of language evaluation. Developing and carrying out intervention programs.

**CSCD2042 (12290) Language Impairments in Children II**  
**Semester 2 - 3 credit points**  
Pre-requisite Linguistics (CSCD1024), Normal Communication Development (CSCD1028), Language Impairments in Children I (CSCD2041)  
Language impairments occurring in children at the preverbal stages of development and in primary school aged children and adolescents. Principles and practices of language evaluation in each population. Developing and carrying out language intervention programs.

**CSCD2043 (12291) Stuttering**  
**Semester 1 - 3 credit points**  
Management strategies for children and adults who stutter. Consideration and critique of clinically relevant theories and research findings pertaining to the management of stuttering.

**CSCD2046 (12294) Audiological Management I**  
**Semester 2 - 3 credit points**  
Recommended background unit of study Audiology I (CSCD2040)  
Theoretical and clinical issues related to sensory aids for the hearing impaired, and assessment and intervention of the communication problems of hearing-impaired adults.

**CSCD2047 (12295) Speech and Language Impairments of Neurological Origin I**  
**Semester 2 - 3 credit points**  
Recommended background unit of study Neurobiology II for Communication Disorders (BIOS2062)  
Description, evaluation and intervention strategies for speech motor and motor programming disorders such as dysarthria and apraxia; introduction to aphasia; overview of neurologically-based language breakdown and its management.

**CSCD2048 (12296) Introductory Speech Pathology Clinical I**  
**Semester 1 - 1 credit point**  
Pre-requisites Professional Development I (CSCD1025), Articulation and Phonology (CSCD1029)  
Pre-requisites or Co-requisites by permission Linguistics (CSCD1024), Phonetics I (CSCD 1026), Normal Communication Development (CSCD1028)  
Introduction to clinical work with child clients in the on-campus clinic. Students undertake structured observations of a client and serve as therapy aides to advanced students or clinical educators. Students also attend supervisory conferences with their clinical educators and other students. Student may begin to implement some therapy tasks.

**CSCD2049 (12297) Introductory Speech Pathology Clinical II**  
**Semester 2 - 3 credit point**  
Pre-requisite Linguistics (CSCD1024), Phonetics I (CSCD 1026), Normal Communication Development (CSCD1028), Professional Development I (CSCD1025), Articulation and Phonology (CSCD 1029)  
Students continue in the on-campus clinic, working with two or more child clients generally with articulation/phonological disorders or stuttering. Students also attend supervisory conferences with their clinical educators and other students.

**CSCD2051 (12299) Professional Development IIA: Clinical Skills**  
**Semester 1 - 3 credit points**  
Students undertake interdisciplinary professional observations. They continue the accumulation of professional development experiences, required for their portfolio, through involvement in relevant professional, community, or clinical activities. Students continue to be involved in the running and maintenance of the clinical tests and materials collection. Students attend lectures and tutorials which consider issues related to their concurrent clinical practice.

**CSCD2052 (122A0) Professional Development IIB: Clinical Skills**  
**Semester 2 - 3 credit points**  
Pre-requisite Professional Development I: Introduction to Clinical Learning (CSCD1025)  
Students continue to undertake interdisciplinary professional observations. They continue the accumulation of professional development experiences, required for their portfolio, through involvement in relevant professional, community, or clinical activities. Students continue to be involved in the running and maintenance of the clinical tests and materials collection. Students attend lectures and tutorials which consider issues related to their concurrent clinical practice, including data collection for clinical and clinical research purposes, with particular attention to single case research.

**Year 3**

**BEHS1133 (101F1) Introduction to Health Sociology**  
**Semester 1 - 2 credit points**  
This unit provides an understanding of basic sociological concepts and theories and their application in analysing health in Australia; and develops the ability to critically examine and evaluate aspects of society which are often taken for granted in order to extend the students understanding of the social structures, institutions and processes relevant to health in Australia. The unit also provides opportunities for enhancing linguistic, writing, and analytical skills by introducing some of the sociological methods of collecting, analysing and reporting health data.

* Also available in off-campus mode.
BEHS1146(101 F3) Clients, Practitioners and Organizations
Semester 2 - 2 credit points
Pre-requisite Introduction to Health Sociology (BEHS1133)
This unit uses sociological perspectives to analyse key interpersonal and organizational aspects of therapy and work in health care settings. The focus will be on client-practitioner relationships and upon the legislative and institutional context of work and health care provision.

BEHS3057 (103A7) Cognitive Neuropsychology II
Semester 2 - 3 credit points
Pre-requisite or Co-requisites Cognitive Neuropsychology I (BEHS2091)
This unit is concerned with the cognitive and behavioural consequences of brain damage and models of cognitive rehabilitation.

BEHS3059 (103A9) Patient Management: Theories and Applications
Semester 1 ■ 5 credit points
Pre-requisites Introductory Psychology (BEHS1099), Cognitive and Developmental Psychology (BEHS1100), Disorders and their Management (BEHS1102)
This unit examines the psychological needs of clients and their families in the context of speech pathology practice. Topics of study include detection of underlying anxiety, depression, conflict, and other psychological disorders. The client-practitioner relationship is considered, and students will acquire basic counselling skills that will enhance compliance and satisfaction with treatment. Students will apply behavioural therapies to the treatment of speech and language disorders, and diagnose and manage learning disabilities with special reference to reading delay, and to developmental and acquired reading disability in children and adults. Accurate diagnosis depends on the administration and interpretation of tests. Students will therefore develop skills in the critical evaluation of test theory and test construction, administration, and reliability and validity, with special reference to speech and language tests.

BEHS3060 (103B1) Social and Health Psychology
Semester 2 - 4 credit points
Pre-requisite Introductory Psychology (BEHS1099)
This unit focuses on psychological processes related to health care. Particular emphasis is given to stress, the effects of chronic illness and disability, and processes of social interaction in everyday and health care settings.

BIOS3029 (11384) Neurology for Communication Disorders
Semester 1-1 credit point
Pre-requisite Neurobiology II for Communication Disorders (BIOS2062)
Symptomology produced by lesions in different areas of the cerebral hemispheres; neurology of communication disorders, dysphasia, and dysarthria and tumours of the central nervous system; epilepsy, infections of the CNS and common neurological disorders.

CSCH3023 (12327) Speech and Language Impairments of Neurological Origin II
Semester 1 - 4 credit points
Pre-requisite or Co-requisite by permission Language Impairments of Neurological Origin I (CSCD2047)
Recommended background unit of study Speech and Language Impairments of Neurological Origin I (CSCD2047)
Characteristics of acquired aphasia and speech impairments 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.

CSCH3024 (12328) Communication Impairments in Special Populations
Semester 1 - 3 credit points
Pre-requisite or Co-requisite by permission Language Impairments of Neurological Origin I (CSCD2047)
Consideration of underlying paediatric conditions and 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; bilingual and Australian Aboriginal populations; alternative and augmentative communication approaches to intervention.

CSCH3032 (12336) Professional Development III: Management Skills
Semester 1-3 credit points
Pre-requisites or Co-requisites by permission Professional Development IIA: Clinical Skills (CSCD2051); Professional Development IIB: Clinical Skills (CSCD2052); Introductory Speech Pathology Clinical I (CSCD2048)
Recommended background unit of study Introductory Speech Pathology Clinical II (CSCD2049)
This unit of study involves lectures, tutorials, and/or workshops on aspects of caseload management and professional issues; communication and counselling skills involved in working with adult clients and caregivers; and computer applications in clinical situations. Students continue with their accumulation of professional development experiences required for their portfolio through involvement in relevant professional, community, or clinical activities. Students continue to be involved in the running and maintenance of the clinical tests and materials collection.

CSCH3034 (12338) Craniofacial Anomalies
Semester 2 - 3 credit points
Recommended background units of study Voice Science and Disorders (CSCD2030) or Speech and Hearing Science IA (BIOS1098) and IB (BIOS1099)
Problems of craniofacial anomalies, relevant nose, throat and orthodontic pathologies and their effects on communication; implications for assessment and management; instrumental assessment of nasality.

CSCH3036 (12340) Language Impairments in Children III
Semester2 - 2 credit points
Pre-requisite or Co-requisite by permission Language Impairments in Children I (CSCD2041); Language Impairments in Children II (CSCD2042); Language Impairments in Children I (CSCD2041)
Recommended background unit of study Introductory Speech Pathology Clinical II (CSCD2049)
Advanced concepts in the assessment of and intervention for language impairment in children.
CSCD3037 (12341) Swallowing Impairments
Semester 1-2 credit points
Pre-requisite or Co-requisite by permission Speech and Hearing Science I (BIOS1098); Speech and Hearing Science II (BIOS1099), Neurobiology II for Communication Disorders (BIOS2062)

Description, evaluation, and intervention considerations related to clinical management of feeding and swallowing impairments in children and adults. A focus on case/problem solving will be emphasised to achieve integration of theory and practical skills.

CSCD3038 (12342) Intermediate Speech Pathology Clinical I
Semester 1-4 credit points
Pre-requisites Introductory Speech Pathology Clinical I (CSCD2048), Language Impairments in Children I (CSCD2041), Audiology (CSCD2040)

Students work with child and adult clients with a variety of communication disorders. Students also attend supervisory conferences with their clinical educators and other students. Students are placed in the on-campus clinic for this unit of study, although they may roster through off-campus sites for short-term specialist experiences. Students are also rostered through either the Speech and Language Assessment Clinic or the Audiology Assessment Clinic.

CSCD3039 (12343) Intermediate Speech Pathology Clinical II
Semester 2-8 credit points
Pre-requisites Intermediate Speech Pathology Clinical I (CSCD3038); Swallowing Impairments (CSCD3037); Voice Science and Disorders (CSCD3030)

Students assume greater responsibility for management of children and adults with a variety of communication disorders. Students also attend supervisory conferences with their clinical educators. Students are placed in the on-campus clinic for a portion of the unit of study. Students are rostered through either the Speech and Language Assessment Clinic or the Audiology Assessment Clinic. On completion of Voice Science and Disorders (CSCD3030) 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 unit of study. Students also complete a four days per week, three-week block placement in an adult hospital clinic. This placement will occur either mid-year before Semester 2 or at end-of-year after Semester 2 and after the student has completed Speech and Language Impairments of Neurological Origin II (CSCD3023), Swallowing Impairments (CSCD3037) and their Speech and Language Assessment Clinic. Students work with clients, attend supervisory conferences and participate in a variety of clinical activities.

CSCD3049 (12347) Audiological Management II
Semester 2 - 2 credit points
Pre-requisite Audiology (CSCD2040)

Recommended background units of study: Articulation and Phonology (CSCD1029), Language Impairments in Children I (CSCD2041), Audiological Management I (CSCD2046)

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

Year 4

CSCD4026 (12431) Advanced Topics A
Semester 1 - 6 credit points

Students enrolled in this unit of study will be undertaking studies on-campus during Semester 1 and will select a designated number of separate advanced topics from among those offered by relevant lecturers from areas previously studied in speech pathology and audiology. Focus is on advanced thinking and inquiry in each area topic undertaken.

CSCD4027 (12432) Professional Development IVA: Advanced Issues
Semester 1 - 6 credit points
Pre-requisite Professional Development III: Management Skills (CSCD3032)

Recommended background units of study: Intermediate Speech Pathology Clinical I (CSCD3038) and/or II (CSCD3039)

Students enrolled in this unit of study will be undertaking studies on-campus during Semester 1 and will select seminars and projects related to topics such as administration, health promotion, quality assurance, casemix, clinical education, rural health issues.

CSCD4028 (12433) Advanced Speech Pathology Clinical IA
Semester 1 - 12 credit points
Pre-requisite Intermediate Speech Pathology Clinical I (CSCD3038) and/or II (CSCD3039)

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.

CSCD4029 (12434) Advanced Speech Pathology Clinical IIA
Semester 2 - 24 credit points
Pre-requisite Intermediate Speech Pathology Clinical I (CSCD3038) and/or II (CSCD3039) and permission of Head of School

Students are placed in two off-campus clinic, hospital, or other settings for four days per week for two, 6-week blocks each or one off-campus clinic, hospital, or other setting for four days per week for one, 12-week block. Over the semester they manage a varied child and adult client caseload, participate in a variety of clinical management, clinical service, and multidisciplinary team activities, and participate in supervisory conferences on a regular basis. To be eligible to receive a pass in this unit of study, students must have satisfactorily completed their portfolios for demonstrating competency for professional association membership upon graduation; accumulated a minimum of 300 hours of clinical practice, and participated in a required one-day debriefing activity on-campus at the end of the semester or in other debriefing activities as agreed upon in advance by the Director of Clinical Education.
CSCD4030 (12435) Advanced Topics B
Semester 2 - 6 credit points

Students enrolled in this unit of study will be undertaking studies on-campus during Semester 2 and will select a designated number of separate advanced topics from among those offered by relevant lecturers from areas previously studied in speech pathology and audiology. Focus is on advanced thinking and inquiry in each area topic undertaken.

CSCD4031 (12436) Professional Development IVB: Advanced Issues
Semester 2 - 6 credit points
Pre-requisite Professional Development III: Management Skills (CSCD3032)
Recommended background unit of study Intermediate Speech Pathology Clinical I (CSCD3038) and/or II (CSCD3039)

Students enrolled in this unit of study will be undertaking studies on-campus during Semester 2 and will select seminars and projects related to topics such as administration, health promotion, quality assurance, casemix, clinical education, rural health issues.

CSCD4032 (12437) Advanced Speech Pathology Clinical IB
Semester 2 - 12 credit points
Pre-requisite Intermediate Speech Pathology Clinical I (CSCD3038) and/or II (CSCD3039)

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. At the completion of this unit of study, students will participate in debriefing tutorials on-campus or in other debriefing activities as agreed upon in advance by the Director of Clinical Education. To be eligible to receive a pass in this unit of study, students must have satisfactorily completed their portfolios for demonstrating competency for professional association membership upon graduation; accumulated a minimum of 300 hours of clinical practice, and participated in a required one-day debriefing activity on-campus at the end of the semester or in other debriefing activities as agreed upon in advance by the Director of Clinical Education.

CSCD4033 (12438) Advanced Speech Pathology Clinical MB
Semester 1 - 24 credit points
Pre-requisite Intermediate Speech Pathology Clinical I (CSCD3038) and/or II (CSCD3039) and permission of Head of School

Students are placed in two off-campus clinic, hospital, or other settings for four days per week for two, 6-week blocks each or one off-campus clinic, hospital, or other setting for four days per week for one, 12-week block. Over the semester they manage a varied child and adult client caseload, participate in a variety of clinical management, clinical service, and multidisciplinary team activities, and 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 Sciences and Disorders.

Students in the Honours Program complete all year one and year two units of study in the Pass Program. In Year three Honours students undertake some of the same units of study in the Pass Program as well as units that are unique to the Honours Program. In Year four, all units the Honours students undertake are unique the Honours Program. Following are descriptions of the unique units of study.

Year 3

CSCD3050 (12348) Intermediate Speech Pathology Clinical IH
Semester 1 - 4 credit points
Pre-requisite Introductory Speech Pathology Clinical II (CSCD2049), Language Impairments in Children II (CSCD2042), Audiology (CSCD2040)

Students work with child and adult clients with a variety of communication disorders. Students also attend supervisory conferences with their clinical educators and other students. Students are placed in the on-campus clinic for this unit of study, although they may roster through off-campus sites for short-term specialist experiences. Students are also rostered through either the Speech and Language Assessment Clinic for the Audiology Assessment Clinic.

CSCD3051 (12349) Honours Research Seminar I: Literature Review
Semester 1 - 2 credit points

This unit is designed to assist Honours students with a survey of the literature relevant to their individual research projects. At the completion of this unit each student will have prepared a written literature review for his/her research project.

CSCD3052 (12350) Professional Development IIH: Management Skills
Semester 1 - 1 credit point
Pre-requisite or Co-requisites by permission Professional Development II: Clinical Skills (CSCD2044); Professional Development IIIB: Clinical Skills (CSCD2045)
Recommended background unit of study Intermediate Speech Pathology Clinical II (CSCD3049)

This unit of study involves lectures, tutorials, and/or workshops on aspects of caseload management and professional issues; communication and counselling skills involved in working with adult clients and caregivers; and computer applications in clinical situations. Students continue with their accumulation of professional development experiences required for their portfolio, through involvement in relevant professional, community, or clinical activities. Students continue to be involved in the running and maintenance of the clinical tests and materials collection. Students who complete this unit may be deemed as having completed CSCD3032 Professional Development III: Management Skills.
CSCD3053 (12351) Intermediate Speech Pathology
Clinical IIH
Semester 2 - 7 credit point
Pre-requisite: Intermediate Speech Pathology Clinical I
(CSCD3035), Speech & Language Impairments of Neurological
Origin II (CDCS3023); Neurology for Communication Disorders
(BIOS3029), Swallowing Impairments (CDCS3037); Voice
Science & Disorders (CSCD2030).

Students assume greater responsibility for management of
children and adults with a variety of communication
disorders. Students also attend supervisory conferences
with their clinical educators. Students are placed in the
on-campus clinic for a portion of the unit of study. Students are
rostered through either the Speech and Language
Assessment Clinic or the Audiology Assessment Clinic. On
completion of Voice Science and Disorders (CSCD2030)
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 unit of study. Students also complete a four days per week, three-week
block placement in an adult hospital clinic. This placement
will occur either mid-year before Semester 2 or at end-of-
year after Semester 2 and after the student has completed
Speech and Language Impairments of Neurological Original
II (CSCD3023) and Swallowing Impairments (CSCD3037).

Students work with clients, attend supervisory conferences
and participate in a variety of clinical activities.

CSCD3054 (12352) Honours Research Seminar II:
Research Proposal
Semester 2 - 1 credit point
Pre-requisite: Honours Research Seminar I (CSCD3051)
This unit is designed to assist Honours students with the
development of a research proposal for their individual
research projects. At the completion of this unit each
student will have prepared a written proposal for his/her
research proposal.

Year 4

CSCD4035 (12440) Advanced Speech Pathology
Clinical IIH
Semester 1 - 22 credit points
Pre-requisites: Intermediate Speech Pathology Clinical I
(CSCD3038) and/or Intermediate Speech Pathology Clinical II
(CSCD3039) and permission of Head of School.

Students are placed in two off-campus clinic, hospital, or
other setting for four days per week for two, 6-week blocks
each or one off-campus clinic, hospital or other setting for
four days per week for one, 12-week block. Over the semester
they manage a varied child and adult client caseload,
participate in a variety of clinical management, clinical
service, and multidisciplinary team activities, and participate
in supervisory conferences on regular basis.

CSCD4036 (12441) Professional Development IVH:
Advanced Issues
Semester 2 - 2 credit points
Pre-requisites: Professional Development IIIH: Management Skills
(CSCD3052)

Students enrolled in this unit of study will attend seminars
and other activities related to topics such as administration,
health promotion, quality assurance, casemix, clinical
education, rural health issues. Students who complete this
unit may be deemed to have completed CSCD4027
Professional Development IVA or CSCD4031 Professional
Development TVB.

CSCD4037 (12442) Advanced Speech Pathology
Clinical IIH
Semester 2 - 14 credit points
Pre-requisite: Advanced Speech Pathology Clinical I
(CSCD4035)

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.
At the completion of this unit of study, students will
participate in debriefing tutorials on-campus or in other
debriefing tutorials as agreed upon in advance by the Director
of Clinical Education. To be eligible to receive a pass in this
unit of study, students must have satisfactorily completed
their portfolios for demonstrating competency for professional
association membership upon graduation; accumulated a minimum of 300 hours of clinical practice,
and participated in a required one-day debriefing activity
on-campus at the end of semester or in other debriefing
activities as agreed upon in advance by the Director of
Clinical Education.

CSCD4038 (12443) Honours Thesis
Semester 1 and 2 - 10 credit points
Pre-requisites: Honours Research Seminar I: Literature Review
(CSCD3040); Honours Research Seminar II: Research Proposal
(CSCD3041); satisfactory performance in all Year 3 units of
study.

This unit provides Honours students with the opportunity
to undertake a supervised research project in an area of
human communication sciences or disorders. As part of this
and the other Honours units, 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.
### Table 8.2 Bachelor of Health Science (Hearing and Speech)

**Course Code**  
1221 Full-time, 3 years  
1222 Honours, Full-time, 4 years

#### Pass Course

- **Year 1 (to be first offered in 1999)**
  - BEHS1099 (101B5) Introductory Psychology  
  - BEHS1100 (101B6) Cognitive and Developmental Psychology  
  - BEHS1129 (101E7) Research Methods I: Design  
  - BEHS1102 (101B8) Disorders and their Management  
  - BIOS1068 (11176) Introductory Human Biology  
  - BIOS1070 (11178) Introductory Neurobiology  
  - BIOS1071 (11179) Neurobiology I  
  - BIOS1118 (111C5) Hearing Science  
  - BIOS1116 (111C3) Speech Science I  
  - BIOS1117 (111C4) Speech Science II  
  - CSCD1024 (12124) Linguistics  
  - CSCD1025 (12125) Professional Development I: Introduction to Clinical Learning  
  - CSCD1026 (12126) Phonetics I  
  - CSCD1028 (12128) Normal Communication Development  
  - CSCD1029 (12129) Articulation and Phonology  

**Stage Total** 48  

- **Sem 1** 3 -  
- **Sem 2** 5 -

- **Year 2 (to be first offered in 2000)**
  - BEHS2091 (102A3) Cognitive Neuropsychology I  
  - BEHS1131 (101E9) Research Methods II: Data Analysis and Statistics  
  - BIOS2062 (112B3) Neurobiology II for Communication Disorders  
  - CSCD2030 (12278) Voice Science and Disorders  
  - CSCD2041 (12289) Language Impairments in Children I  
  - CSCD2042 (12290) Language Impairments in Children II  
  - CSCD2043 (12291) Stuttering  
  - CSCD2051 (12299) Professional Development II A: Clinical Skills  
  - CSCD2052 (122A0) Professional Development II B: Clinical Skills  
  - CSCD2035 (12283) Phonetics II  
  - CSCD2040 (12288) Audiology I  
  - CSCD2046 (12294) Audiological Management I  
  - CSCD2047 (12295) Speech and Language Impairments of Neurological Origin I  
  - CSCD2053 (122A1) Communication Disorders Clinical I  
  - CSCD2054 (122A2) Communication Disorders Clinical II  

**Stage Total** 48  

- **Sem 1** 3 -  
- **Sem 2** 5 -  
- **Year 3 (to be first offered in 2001)**
  - BEHS3057 (103A7) Cognitive Neuropsychology II  
  - BEHS1133 (101F1) Introduction to Health Sociology  
  - BEHS1146 (101F3) Clients, Practitioners and Organisations  
  - BEHS3059 (103A9) Patient Management: Theories and Applications  
  - BEHS3060 (103B1) Social and Health Psychology  
  - BIOS3029 (11384) Neurology for Communication Disorders  
  - CSCD3049 (12347) Audiological Management II  
  - CSCD3058 (12356) Auditory Perception and Processing  
  - CSCD3024 (12328) Communication Impairments in Special Populations  
  - CSCD3036 (12340) Language Impairments in Children III  
  - CSCD3032 (12336) Professional Development III: Management Skills  
  - CSCD3055 (12353) Audiology II  
  - CSCD3054 (12338) Craniofacial Anomalies  
  - CSCD2056 (12354) Communication Disorders Clinical III  
  - CSCD2057 (12355) Communication Disorders Clinical IV  

**Stage Total** 48  

- **Sem 1** 3 -  
- **Sem 2** 5 -  
- **Sem 3** 3 -  
- **Year 4 (Honours)**
  - BIOS3029 (12354) Communication Disorders Clinical III  
  - CSCD2057 (12355) Communication Disorders Clinical IV  

**Stage Total** 48  

- **Sem 1** 3 -  
- **Sem 2** 5 -  
- **Sem 3** 3 -  
- **Sem 4** 8*
Notes

This unit includes a 3-week off-campus block placement either before or after Semester 2, as well as an on-campus clinical experience during Semester 2.

Year 4 (Honours Program) (to be first offered in 2002)

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Stage Total: 48

Bachelor of Health Science
(Hearing and Speech)

Full-time and Part-time Study

The Bachelor of Health Science (Hearing and Speech) is structured as a full-time degree course offered over 3 years, with expected enrolment in units totalling 24 credit points each semester. However, the School recognises that some students cannot attend full-time and wish to complete their degrees in a longer time. Within the School of Communication Sciences and Disorders, students enrolling part-time are those enrolled in a minimum of 10 and a maximum of 17 credit points per semester. Part-time students in Hearing and Speech are expected to meet "satisfactory progress" requirements. These include:

- Enrolment in the equivalent of at least 4 full units of study per academic year, except when a student has fewer that 4 units remaining to complete requirements for graduation.
- Passing the equivalent of 6 units of study over any 2 academic year periods.
- Completion of all CSCD1xxx units of study prior to enrolling in any CSCD3xxx units.
- Completion of all year 1 units within two years.

Only a limited number of places are available for part-time enrolment and students must be prepared to accept a full-time place in the course prior to applying for part-time enrolment. Students must seek approval to enrol part-time from the Head of School prior to enrolment at the beginning of the academic year. Any variation in approved enrolment status is not automatically granted and must be applied for.

Students requesting to enrol part-time should note that daytime attendance at lectures and clinic placements, as well as clinic block placements, are required for completion of the BHlthSc (Hearing and Speech) course. At this time, the option of part-time enrolment is only available to a few Year 1 commencing students.

Students enrolling part-time should also note the following:

- Part-time students must adjust their load so that they can complete the course within the maximum time. No extensions of maximum time will be granted.

Minimum time: 6 years from the initial academic year of enrolment.

Maximum time: 10 years from the initial academic year of enrolment.

- Because the course is structured as a full-time course, students must be cognisant of the possibility of clashes in timetables for units when intending to enrol in units with different first numerals in their codes, eg. CSCD2xxx and CSCD3xxx, and plan sufficiently well so they do not exceed the maximum time for course completion or they fail to meet "satisfactory progress" requirements, per above.

- Students must meet pre-requisite and co-requisite requirements as specified for enrolment in specific units of study:

  Where a unit of study has a co-requisite, a student is to enrol in that unit as well as the co-requisite in the same semester.

  Where a unit of study is a pre-requisite, this pre-requisite unit must be passed prior to enrolment in any other units for which it is a pre-requisite.

  Where a unit of study is a pre-requisite/co-requisite by permission for another unit, the pre/co-requisite unit may be completed in a prior semester or with permission in the same semester as the other unit.

A recommended background unit of study should be completed before enrolling in a unit for which it is listed. Enrolment in any unit of study without completion of recommended background units of study is not advised and students doing so carry the responsibility for their decision. In any case, a student wishing to enrol in a unit of study without completion of the recommended background units must consult with the unit's co-ordinator.

- Part-time students are completing their degree over a longer period of time and it is possible, and in fact likely, that there will be curriculum changes while they are undertaking their degree. Part-time students have the responsibility for monitoring changes in curriculum which may affect their progression and for discussing these with the Part-time Student Co-ordinator.
Admission Requirements
There are no specific pre-requisites for admission to the Bachelor of Health Science (Hearing and Speech) course. The general admission requirements in Chapter 3 apply. However, prospective students would benefit from undertaking 2 unit English, and one of 2 unit Chemistry or 3/4 unit Science at HSC level.

Course Outline
The course outline for the Bachelor of Health Science (Hearing and Speech) is presented in Table 8.2.

Unit Descriptions

Year 1

BEHS1099 (101B5) Introductory Psychology
Semester 1 - 3 credit points
This unit provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology. Also available in Distance mode.

BEHS1000 (101B6) Cognitive and Developmental Psychology
Semester 2 - 5 credit points
This unit provides an introduction to the logic, theory and methodology of cognitive psychology and extends the study of developmental psychology begun in Introductory Psychology to consider normal human development and developmental disability.

BEHS1102 (101B8) Disorders and their Management
Semester 2 - 4 credit points
This unit covers the theoretical background and nature of disturbed behaviours, including 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 classification of psycho-pathology for children and adults will be presented with evaluative comment. The types, variety and common symptoms of disorders and other important issues related to treatment will be presented. One approach to treatment, the cognitive behavioural method, will be considered.

BEHS1129 (101E7) Research Methods I: Design
Semester 1 - 3 credit points
This unit introduces students to the research process and focuses on developing informed consumers of research. The unit briefly considers the philosophy of science and covers research ethics, qualitative and quantitative research, development of research questions, specification of hypotheses and variables, conceptualisation and operationalisation, sampling issues, validity and reliability. A broad range of research methods will be introduced, such as 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 science including needs assessment, evaluation research, action research and epidemiology. The importance of research methods to evidence-based practice will be emphasised.

BIOS1068 (11176) Introductory Human Biology
Semester 1 - 4 credit points
This unit 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.

BIOS1070 (11178) Introductory Neurobiology
Semester 1 - 3 credit points
Co-requisite Introductory Human Biology (BIOS1068)
This unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1071 (11179) Neurobiology I
Semester 2 - 2 credit points
Pre-requisite or Co-requisite by permission Introductory Neurobiology (BIOS1070)
This unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1116(111C3) Speech Science I
Semester 1 - 3 credit points
Co-requisite Introductory Human Biology (BIOS1068); Speech Science I (BIOS1116)
This unit introduces students to the anatomy of speech mechanisms. It also includes the development of the embryo with special reference to the organs of speech. The unit of study includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1117 (111C4) Speech Science II
Semester 2 - 3 credit points
Co-requisite Hearing Science (BIOS1118)
Recommended background units of study Introductory Human Biology (BIOS1068); Speech Science I (BIOS1116)
This unit of study aims to provide an understanding of the physics, anatomy and physiology of the speech mechanisms and respiratory system. The unit of study includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1118(111C5) Hearing Science
Semester 2 - 4 credit points
Co-requisite Speech Science II (BIOS1117)
Recommended background units of study Introductory Human Biology (BIOS1068); Speech Science I (BIOS1116)
This unit of study aims to provide an understanding of the physics, anatomy, and physiology of the hearing mechanism. Students will learn about pathologies of the ear, nose and throat and the medical management of some hearing disorders. The unit also includes the development of the ear and principles of abnormal embryonic development. The unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.
CSCD1024 (12124) Linguistics
Semester 1 - 3 credit points
Nature of the communication system. Both formal and functional linguistic theories and methodologies are included. There is a skill-based component involving traditional analysis of syntax (grammar), for which attendance is required.

CSCD1025 (12125) Professional Development I: Introduction to Clinical Learning
Semester 2 - 2 credit points
This unit of study introduces students to the learning orientation, professional communication skills, and basic clinical processes necessary for the course and professional practice. It provides structured observations of speech pathology clinics. Students begin their accumulation of professional development experiences required for their portfolio through involvement in relevant professional, community, or clinical services. Students become involved in the running and maintenance of the clinical Tests and Materials collection. Each student must show evidence of completion of an accredited First Aid Course (CPR) to be eligible to receive a "Pass" in this unit of study.

CSCD1026 (12126) Phonetics I
Semester 1 - 2 credit points

CSCD1028 (12128) Normal Communication Development
Semester 1 - 3 credit points
Normal communication development in English from birth to old age, across cultures relevant to Australia.

CSCD1029 (12129) Articulation and Phonology
Semester 2 - 4 credit points
Recommended background units of study Linguistics (CSCD1024); Normal Communication Development (CSCD1028); Phonetics I (CSCD1026)
Nature of phonological and articulatory disorders; techniques for the assessment, analysis, and intervention.

Clinical Education

Students in the Bachelor of Applied Science (Speech Pathology) and the Bachelor of Health Science (Hearing and Speech) courses participate in a wide variety of practicum experiences throughout their undergraduate education. These range from observational opportunities to supervised practice with clients/patients and occur in the on-campus clinic and in off-campus placements such as hospitals, public schools, community health centres, and rehabilitation centres in metropolitan and country areas and sometimes interstate and overseas.

Dr Michelle Lincoln, the School's Director of Clinical Education, coordinates students' clinical experiences.

1999 Clinical Practice Dates

Year 2
Pre-Semester 1
Clinic Orientation
Wednesday & Friday February 24-26
Semester 1
As arranged
March 1 - June 26
Pre-Semester 2
Clinic Orientation
Wednesday & Friday August 4-6
Semester 2
As arranged
August 9 - November 5
Year 3
Pre-Semester 1
Clinic Orientation
Wednesday & Friday February 24-26
Semester 1
As arranged
March 1 - June 26
Inter-Semester
3 weeks June 28 - August 7 OR
3 weeks December - February
Pre-Semester 2
Clinic Orientation
Wednesday & Friday August 4-6
Semester 2
As arranged
August 9 - November 5
Year 4
Pre-Semester 1
(only for students spending Semester 1 on-campus)
Clinic Orientation
Wednesday & Friday February 24-26
Semester 1
As arranged
March 1-June 26 OR
August 9 - November 5
Pre-Semester 2
(only for students spending Semester 2 on-campus)
Clinic Orientation
Wednesday & Friday August 4-6
Semester 2
12 weeks
March 1-May 28 OR
August 9 - November 5
Debriefing week for all year 4 students
November 8 - 12
9 School of Community Health

The School of Community Health was established in 1987. A major role of the School is to conduct courses which prepare a wide range of health and health-related practitioners to work at the community level and in the workplace in programs which promote better health, support community development and assist clients to participate effectively in the management of their own disabilities and illnesses.

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

In 1991, the School introduced a new undergraduate course aimed at further meeting specialised needs in health science education. The Bachelor of Health Science is designed for students who aspire to work in areas such as community development, education, counselling and health promotion, or with special groups such as Aboriginal people or people with disabilities. The degree structure is comprised of a multidisciplinary core group of units and a specialist stream. The first of these specialist streams in Rehabilitation Counselling commenced in 1991. Professional training in rehabilitation counselling however had taken place at the associate diploma and post graduate level at Cumberland College of Health Sciences since the mid 1970s.

In 1993 the three year Bachelor of Health Science (Aboriginal Health and Community Development) course 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. In 1998 after extensive consultation, the Bachelor’s degree course was extended to four years full-time.

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. Commencing 1999, a new graduate coursework program in Indigenous Community Health will be offering at Graduate Certificate, Graduate Diploma and Master's Degree levels. Further course information may be obtained from the School on (02) 9351 9095 for Aboriginal Health and Community Development and, (02) 9351 9565 for Rehabilitation Counselling.

Yooroang Garang: The Centre for Indigenous Health Studies

Table 9.1 Diploma of Health Science (Aboriginal Health and Community Development)

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Stage Total: 24

School of Community Health
Notes
1 AHCD1036 (07126) Alcohol and Other Drugs I will be offered as Elective Studies IA in 1999.
2 BIOS1076 (11184) Biological Sciences I will be offered as Elective Studies IB in 1999.

Diploma of Health Science (Aboriginal Health and Community Development)

The Diploma of Health Science (Aboriginal Health and Community Development) is open to Aboriginal people. It is conducted in block mode over 2 years. Students attend two day assessment and interview session during the commencement of the semester and for four ten day blocks each year as well as completing two weeks of field placements each year.

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

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

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

Life Experience - Voluntary participation in Aboriginal community organisations, for example, Aboriginal Education Consultative Groups, Aboriginal Land 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 9.1.

Unit Descriptions

Year 1

AHCD1028 (07177) Perspectives in Indigenous Health I

This unit introduces students to indigenous perspectives in health. Part I, Dreamings - Culture - Society focuses on traditional or pre-contact Aboriginal lifestyle, philosophy and law, and also explores issues of identity for contemporary Aboriginal people. Part II, culture contact and conflict is based on case studies from around Australia which provide examples of the diversity of contact with non-Aboriginal people - post invasion. Guest lecturers and field trips will be important components.

AHCD1029 (07179) Communication Studies I

Semester 1 - 6 credit points

This unit of study helps you to develop academic and professional skills that are an essential part of studying at university and working in Aboriginal settings. Topics covered include computer and information literacy, critical reading and writing skills, multi media presentations, as well as workplace communication skills such as submission writing.

AHCD1030 (07180) Primary Health Care I

Semester 2 - 6 credit points

This unit 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. The role of the health worker in improving primary health care to the community will be explored.
AHCD1031 (07181) Community Development I  
**Semester 2 - 6 credit points**  
This unit provides a background to community development in Aboriginal and Torres Strait Islander communities. Students will gain an understanding of the diversity of Aboriginal & Torres Strait Islander communities of today and the impact of this diversity on the needs, development, approach, etc. It will focus on the community development process and the importance of community participation at all levels. The student will develop a profile of Aboriginal community.

AHCD1032 (07182) Introduction to Counselling Skills  
**Semester 2 - 6 credit points**  
This unit will introduce students to the basic skills of communication and counselling. It aims to assist students to develop a broad concept of what counselling is and how it is practised in the context of the Aboriginal Health and Community Development. The focus is on interviewing and communication skills.

AHCD1035 (07185) Field Education I  
**Semester 2 - 6 credit points**  
This unit is an essential component in the process of developing competence as an Aboriginal Health and/or Community Development worker. It provides a graduated program which spans the three years of the program and is designed to formulate the integration of theoretical concepts and skills learnt during the program.

AHCD1036 (07126) Alcohol and Other Drugs I  
**Semester 1 - 6 credit points**  
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.

BIOS 1076 (11184) Biological Sciences I  
**Semester 2 - 6 credit points**  
This unit 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.

**Year 2**

AHCD2013 (07260) Perspectives in Indigenous Health II  
This unit provides an historical perspective to the study of Indigenous health through its focus on race relations in Australia during the twentieth century. It identifies mechanisms of control by government and church groups; in particular, institutionalization, and explores their physical and psychological effects on indigenous health. This unit also examines the nature and function of government agencies for Aborigines since 1967 and the development of various policies and strategies the local state and national levels. Guest lecturers and field trips will continue to be important components.

AHCD2014 (07261) Communication Studies II  
**Semester 1-6 credit points**  
This unit of study enables students to examine the process of communication in the workplace including organisational communication and will develop skills such as team building, decision making, problem solving, conflict resolution and negotiation skills.

AHCD2015 (07262) Primary Health Care II  
**Semester 2 - 6 credit points**  
This unit will focus on issues of ill health in indigenous communities across Australia. Today Aboriginal people are suffering from both third world and modern illnesses as fourth world (minority) citizens of Australia. This unit focuses on issues of health and human behaviour that are of particular interest to the Aboriginal Health Professional.

AHCD2016 (07263) Community Development II  
**Semester 2 - 6 credit points**  
Students will develop skills for community development planning. Students will write community development strategic plans address issues in Aboriginal health and how to plan projects.

AHCD2017 (07264) Counselling Theory and Methods A  
**Semester 1-6 credit points**  
The aim of this unit is to focus on the development of a variety of counselling techniques and methods. This unit will assist students to develop a clear understanding of the counselling component of role in the Aboriginal health and community development workers.

AHCD2020 (07267) Field Education II  
**Semester 2 - 6 credit points**  
This unit is an essential component in the process of developing competence as Aboriginal Health and/or Community Development workers. It provides a graduated program which spans the three years of the program and is designed to formulate the integration of theoretical concepts and skills learnt during program work.

AHCD2021 (07268) Alcohol and Other Drugs II  
**Semester 1 - 6 credit points**  
The unit 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 unit also explores strategies for maintaining the health and well-being of the worker who is dealing with clients with drug related problems.

BIOS2090 (112E5) Biological Sciences II  
**Semester 2 - 6 credit points**  
This unit is an introduction to the systems of the body using the theme of homeostasis and will provide the basis for further study of health and illness. In this unit students select two elective studies. Each of these involves classroom work and off campus based study. The elective studies may include: Wellness and Mental Health; Indigenous Computing; Sexual Health; Women's Health; Men's Health; Drug & Alcohol; Community Care.
Table 9.2 Bachelor of Health Science (Aboriginal Health and Community Development)

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<td>AHCD3002 (07307) Contemporary Issues in Health, Law and Medicine</td>
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<td>AHCD3004 (07315) Community Development III</td>
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Honours Program - Additional Units

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Table 9.2.1 Bachelor of Health Science (Aboriginal Health and Community Development)

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Honours Program - Additional Units

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

Table 9.2.2 Bachelor of Health Science (Aboriginal Health and Community Development)

<table>
<thead>
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Year 1

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Stage Total 48 24 24

Year 2

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Year 3

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Year 4

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Stage Total 48 24 24
Honours Program

Year 4

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<td>AHCD4007</td>
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Stage Total: 30

Notes

Students choose 2 Research Electives in Year 3 of the Pass Program and 2 additional Research Electives for Year 4 Honours selected from the list below.

Students choose 4 electives in Year 3 and 5 electives in Year 4. All elective units are presented in related streams as outlined below. Students may choose to specialise by selecting all electives from one stream, or may select across streams.

Research Stream Electives (6 credit points each)

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<td>Introduction to Health Research*</td>
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<td>AHCD4016</td>
<td>Participant Observation and Ethnography^2</td>
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<td>AHCD4018</td>
<td>Action Research*</td>
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<td>AHCD4037</td>
<td>Research Seminar^1</td>
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<td>AHCD4038</td>
<td>Quantitative Research Methods^2</td>
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<td>AHCD4039</td>
<td>Historical Research^1</td>
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Counselling and Indigenous Mental Health Stream

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<td>AHCD4011</td>
<td>Family Therapy^2</td>
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<td>AHCD4020</td>
<td>Group Processes and Counselling^1</td>
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<td>AHCD4021</td>
<td>Art Therapy*</td>
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<td>AHCD4028</td>
<td>Alcohol and Other Drugs Counselling^1</td>
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<td>AHCD4030</td>
<td>Issues in Indigenous Mental Health^7</td>
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<td>AHCD4040</td>
<td>Addictions Counselling*</td>
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<td>AHCD4041</td>
<td>Counselling with Art Therapy^2</td>
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<td>AHCD4042</td>
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Indigenous Community Development and Management Stream

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<td>Health Computing*</td>
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<td>Health Management Theory*,</td>
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Primary Health Care and Health Promotion Stream

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<tr>
<td>AHCD4013</td>
<td>Nutrition and Lifestyle^5</td>
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<td>AHCD4014</td>
<td>Contemprory Issues in Health Law, and Medicine^1</td>
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<td>AHCD4022</td>
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<td>Multiculturalism and Indigenous Issues^1</td>
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<td>Art and Media in Indigenous Health Promotion^1</td>
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<td>Early Disease Intervention for Aboriginal Health Workers in Remote Areas A^2</td>
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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. As of 1998 only a full-time four year block mode program will be offered.

Admission Requirements

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

Course Outline

The course outlines for the Bachelor of Health Science (Aboriginal Health and Community Development) are presented in Tables 9.2, 9.2.1 and 9.2.2.

Unit Descriptions

Unit descriptions for course code 0780 year 1 and year 2 are as for the Diploma, refer pages 9-2/3, except for BEHS2118 Health and Human Behaviour I, listed below.

AHCD2003 (07244VAHCD4007 (07401) Epidemiology

Semester 1 - 5 credit points/6 credit points

This unit 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.

AHCD2005 (07252) Counselling II

Semester 1 - 5 credit points

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

AHCD2012 (07259) Community Development II

Semester 2 - 6 credit points

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

AHCD2015 (07262) Primary Health Care II

Semester 2 - 6 credit points

This unit will focus on issues of ill health in indigenous communities across Australia. Today Aboriginal people are suffering from both third world and modern illnesses as fourth world (minority) citizens of Australia. This unit focuses on issues of health and human behaviour that are of particular interest to the Aboriginal Health Professional.
AHCD3001 (07306)/AHCD4032 (07425) Health Planning, Policy and Evaluation
Semester 1 - 5 credit points/6 credit points
This unit 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 unit 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.

AHCD3002 (07307)/AHCD4014 (07408) Contemporary Issues in Health, Law and Medicine
Semester 1 - 5 credit points/6 credit points
This unit will introduce students to an understanding of the Australian legal system and general principles and law governing human behaviour. This unit will provide the student with an understanding of the relationship between disability, health and the law. It is designed to give students an understanding of how the law affects persons with a disability (social or physical) and to allow them to explore possible avenues for reform of the law.

AHCD3003 (07314)/AHCD4032 (07426) Perspectives in Indigenous Health III
Semester 1 - 5 credit points/6 credit points
This unit builds on Perspectives in Indigenous Health I and II by further exploring Indigenous, sociological, historical and anthropological on Indigenous health. Students will examine a range of materials related to the themes of race and racism. The major theories underlying the notion of race and racial relations in the nineteenth and twentieth centuries will be introduced and the impact of these on the health of Indigenous people in Australia critically analysed.

AHCD3004 (07315)/AHCD4017 (07411) Community Development III
Semester 2 - 5 credit points/6 credit points
This unit 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.

AHCD3005 (07316) Counselling III
Semester 1 - 6 credit points
This unit 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.

AHCD3006 (07317)/AHCD4034 (07428) Primary Health Care III
Semester 2 - 5 credit points/6 credit points
This unit 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.

AHCD3007 (07318)/AHCD3009 (07343) Field Education III
Semester 2 - 6 credit points

AHCD4002 (07426) Field Education IV
Semester 2 - 12 credit points
These units are essential components in the process of developing competence as an Aboriginal Health and/or Community Development worker. They provide a graduated program which spans the course and is designed to formulate the integration of theoretical concepts and skills learnt during the course.

AHCD3008 (07342) Indigenous Community Health Project A
Semester 1 and 2 - 6 credit points
Indigenous Community Health Project A and B provide students with an opportunity to integrate learning throughout the course by defining, planning, implementing, evaluating and reporting on a project related to professional practice in Aboriginal health and community development. Content in this unit will include project definition, project planning, project management and project evaluation. Students will apply this in preparing a project plan which will be implemented in Indigenous Community.

AHCD3010 (07344) Counselling Theory and Methods B
Semester 1-6 credit points
This unit will teach students the practical skills needed for the development of effective counselling in the area of Aboriginal health. During this stage of the study, the emphasis will be on assisting students to develop individual styles of counselling based on the theoretical framework that was established during the first and second year course. Students will be invited to select and explore in detail three topics or issues related to Aboriginal health. For each topic students will be asked to show they can apply counselling methods that are culturally effective.

AHCD4001 (07485) Indigenous Community Health Project B
Semester 1 and 2 - 6 credit points
Indigenous Community Health Project A and B provide students with an opportunity to integrate learning throughout the course by defining, planning, implementing and evaluating and reporting on a project related to professional practice in Aboriginal health and community development. In this unit, students will participate in implementing, evaluating and reporting on a project related to professional practice in Aboriginal health and community development, following a project plan developed in Indigenous Community Health Project A.

AHCD4008 (07402) Introduction to Health Research
Semester 1 or 2 (not offered in 1999)
This unit of study 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.
AHCD4010 (07404) Perspectives in Indigenous Health IV
Perspectives IV is structured around class discussions, readings, case studies and student presentations on selected topics in indigenous health. These topics will be determined by current student interest and professional directions and may include: men's business; women's business; the role of the professional Aboriginal health worker; international indigenous societies and culture; health and community development.

AHCD4011 (07405) Family Therapy
Assumed Knowledge 07182 Counselling I or equivalent.
The major theories and methods of family therapy will be examined and related to the Aboriginal culture and traditions.

AHCD4012 (07406) Communication in Indigenous Communities
Semester 2 - 6 credit points
How does the structure and the culture of an organisation affect how people communicate? What effect do networks, gender and power have on the way people communicate in organisations and what models can we use to develop effective communication in both public and private sector organisations? This unit of study involves a practical look at communication in community based organisations such as Aboriginal Medical Services and government organisations such as ATSIC and the Health Department.

AHCD4013 (07407) Nutrition and Lifestyle
Semester 2 - 6 credit points
This unit examines various issues associated with health and nutrition in both urban and rural indigenous communities.

AHCD4016 (07410) Participant Observation and Ethnography
Semester 1 or 2
This unit provides an introduction to the theory and process of ethnographic research. Principles of participant and non-participant observation will be discussed.

AHCD4018 (07412) Action Research
Semester 1 (not offered in 1999)
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.

AHCD4020 (07414) Group Processes and Counselling
Semester 1 or 2
The theories of groups processes and counselling will be examined. Topics such as group formation, group roles, group communication and the role of the therapist, will be examined. Students will be encouraged to develop individual styles that reflect the needs of the indigenous communities they are familiar with.

AHCD4021 (07415) Art Therapy
Assumed Knowledge 07182 Counselling I and 07252 Counselling II or equivalent.
This unit of study will introduce the basic concepts and skills related to the use of art in counselling. Students will be introduced to both the diagnostic and therapeutic applications of this technique.

AHCD4022 (07416) Health Promotion for Indigenous Communities II
Semester 1 - 6 credit points
Prerequisite Health Promotion I. Using various strategies developed in Health Promotion I, this unit will provide the students with mechanisms to develop their own indigenous health promotional programmes/projects, implement and evaluate the outcome. It is a hands on unit.

AHCD4024 (07418) Housing and Environmental Health
Semester 1 - 6 credit points
This unit will focus on the relationship between physical environment and health. Students will learn how to work with town and community planners to explore ways of improving indigenous health.

AHCD4028 (07422) Alcohol and other Drugs Counselling
Semester 1
This unit of study is focused on the essential skills needed for the development of effective counselling in the area of drug and alcohol addiction. Students will draw from their studies in Counselling I & Counselling II, and Drugs and Alcohol I & II to develop counselling strategies that are culturally effective.

AHCD4030 (07423) Issues in Indigenous Mental Health
Semester 2 - 6 credit points
The objectives of "Issues in Indigenous Mental Health" are to consider the special historical, cultural, spiritual and social factors that impact on indigenous health, especially mental health. Special emphasis will be given to assisting students' understanding of the biopsychosocial aspects of indigenous mental health. Transgenerational issues (such as grief) in relation to indigenous mental health will be explored.

AHCD4031 (07424) Health Management Practice
Semester 2 - 6 credit points
This unit of study examines the practical issues of managing indigenous health organisations. Topics will include accounting methods, office practice, legal issues, personnel as well as other topics that are relevant at the time.

AHCD4032 (07425VAHC3001 (07306) Health Planning, Policy and Evaluation I
This unit is designed to provide an understanding of the basic concepts and approaches in health policy planning and evaluation. Students will be introduced to basic ideological, socio-cultural, economic and political assumptions implicit in policy development.
AHCD4034 (07427) Health Promotion for Indigenous Communities I
Semester 1 - 6 credit points (not offered in 1999)
This unit 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.

AHCD4036 (07429) Art and Media in Indigenous Health Promotion
How can art and media be used to promote health? How can this empower communities to achieve their own health? This unit of study focuses on the design, production and delivery of health promotion messages in art through painting, theatre, dance and song and in film, television, radio and the print media. The communication of indigenous concepts of health in images and stories is explored with reference to selected indigenous health promotion projects.

AHCD4037 (07430) Research Seminar
This unit is only available to students who have been enrolled in the Honours program. Students will be required to participate in seminar discussions related to their individual research plans.

AHCD4038 (07431) Quantitative Research Methods
This unit introduces students to the application of statistical concepts to research in selected topics in Aboriginal Health. To pass this unit students will study two modules. One module on inferential statistical techniques will be compulsory. The second module is designed to allow students to develop an in depth understanding of specific methodologies such as: descriptive, correlational, ex-post-facto and experimental.

AHCD4039 (07432) Historical Research
This unit introduces students to written and oral history. It explores the appropriate methods and systematic techniques for the collection and evaluation of data from past events in order allow for a better understanding of current events and facilitate the anticipation of future events.

AHCD4040 (07433) Addictions Counselling
Assumed Knowledge 07182 Counselling I or equivalent.
The relationship to addiction and personality will be explored in depth. Specific additions such as addiction to gambling will be discussed. Part of the assessment for this unit will require students to present a relevant case study for discussion.

AHCD4041 (07434) Counselling with Art Therapy
Semester 2 - 6 credit points
This unit will be taught in conjunction with Perspectives in Indigenous Health IV. It will compare and contrast the modern concepts in Art Therapy with the use of traditional methods in spiritual healing.

AHCD4042 (07435) Wellness
This unit will encourage students to focus their attention on the health required for healthy living from a holistic perspective of indigenous health. Students will be asked to consider the positive environmental influences required for individuals and communities to achieve and maintain a state of healthy well being. Contributions to an understanding of wellness will be sought from traditional Aboriginal culture and custom, anthropology, sociology and psychology. Content for this unit will be thematic and be determined by current student interest.

AHCD4043 (07436) Computer Skills in the Media
In this unit you will develop practical skills in desktop publishing and produce a professional newspaper. Topics covered include putting together a copy, the role of editorial targeting and contents planning, creative use of typography, layout and design, graphics and artwork, advertisements, distribution and legal issues such as copyright.

AHCD4044 (07437) The Health Worker and the Law
Semester 2 - 6 credit points
The unit introduces students to the basic principles of the application of the law in Australia. Particular reference is made to those aspects of the law that relate specifically to the role of the practice of the Aboriginal Health Worker. This unit also provides students an opportunity to familiarise themselves with their legal rights and responsibilities in contemporary society as both citizens and professional health workers.

AHCD4045 (07438) Indigenous Health Information Management
Semester 2 - 6 credit points
Students will develop the ability to apply specialist computing software in the management of indigenous health organisations. For example, client registration systems, community needs data systems and centre-management and accounting software.

AHCD4046 (07439) Early Disease Intervention for Aboriginal Health Workers in Remote Areas A
Semester 2 - 6 credit points
This unit is designed to prepare the students for a role in primary treatment of common health problems. It will be delivered in consecutive units A and B which will be taken together to round of the students learning. Students will be taught a client management process which will prepare them to manage a number of common clinical problems in remote areas. This process will include taking a history, taking observations, consultation and referral, making a diagnosis, planning management for short and long term and finally evaluation. Fifteen diseases will be covered in detail during the two units, with an emphasis on teaching a process which can be used in a variety of situations. A further eight diseases will be covered in case study assignments. Common illnesses from all age ranges and body systems will be covered. The student will be taught the importance of referral of all unusual or serious illnesses.
AHCD4047 (07440) Early Disease Intervention for Aboriginal Health Workers in Remote Areas B
Semester 2 - 6 credit points
This unit is designed to prepare the students for a role in primary treatment of common health problems. It will be delivered in consecutive units A and B which will be taken together to round of the students learning. Students will be taught a client management process which will prepare them to manage a number of common clinical problems in remote areas. This process will include taking a history, taking observations, consultation and referral, making a diagnosis, planning management for short and long term and finally evaluation. Fifteen diseases will be co-ered in detail during the two units, with an emphasis on teaching a process which can be used in a variety of situations. A further eight diseases will be covered in case study assignments. Common illnesses from all age ranges and body systems will be covered. The student will be taught the importance of referral of all unusual or serious illnesses.

AHCD4048 (07441) Issues in Housing and Environmental Health
Semester 2 - 6 credit points
Issues such as government policy, specific cultural needs, differing needs between remote, rural and urban families will be explored.

AHCD4049 (07416) Skills for Teaching Health
Semester 1 - 6 credit points
This unit provides an opportunity for students to identify and develop teaching skills for use in their professional roles as health workers. The content for this unit will include: principles of adult learning; the teaching process; instructional design; the skills of questioning, explaining and facilitating small group discussions; and the preparation and use of audiovisual teaching materials.

AHCD4050 (07443) Health Planning, Policy and Evaluation II
This unit, a continuation of Health Policy Planning and Evaluation I, analyses the National Aboriginal Health Policy and introduces the students to other countries experience in health policy development for indigenous population.

AHCD4051 (07444) Indigenous Health and Housing
Semester 2 • 6 credit points
This unit encourages students to explore the relationship between the links between housing style and quality and the health of its inhabitants. Students will be able to develop practical skills required to assess housing suitability.

BEHS2118 (102D0) Health and Human Behaviour I
This unit 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.

BEHS3045 (10393)/BEHS4045 (10498)
Social Research
Semester 2 - 6 credit points
This unit 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.

BEHS4046 (10499) Health and Human Behaviour II
Semester 2 - 6 credit points
This unit introduces students to topics in psychology, including perception, intelligence, personality and learning. One area of focus will be social psychology, which deals with aspects of the behaviour of people in groups, with applications to people with disabilities. Psychological issues to do with counselling will also be addressed.

BIOS3051 (113A4) Biological Sciences IIIA
Semester 1 - 6 credit points
Medical Sciences and Disorders of Body Systems. To introduce the student to pharmacology, pathophysiology and aspects of cross-infection and immunology through the life stages from foetus to old age. This will be presented in a problem based manner.

BIOS3033 (11388)/BIOS3046 (113A1)
Biological Sciences III
Semester 1 - 5 credit points/6 credit points
This unit will allow students to undertake study in four topic areas covering contemporary issues in health and human biology. It is expected that these areas will be of particular interest to them in their future professional roles. It will provide the opportunity to achieve confidence in dealing with biologically based material, to understand scientifically technical language and to interpret biologically based data.

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

Honours
AHCD4003 (07946) Honours Workshop
Honours students are assisted with the development of their individual research projects for completion of their thesis in year four. At the completion of the unit, each student has prepared a written proposal for their research project.

AHCD4004 (07948) Thesis
Students are given the opportunity to undertake a supervised research project. Students design and implement an approved project under the supervision of an academic staff member, and submit a thesis describing the project and its implications for service delivery and further research.
# Table 9.3 Bachelor of Health Science (Rehabilitation Counselling)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>0820</td>
<td>Part-time; 6 years (no commencing students since 1994)</td>
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<tr>
<td>0845</td>
<td>Honours Program; Full-time, 4 years</td>
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<tr>
<td>0846</td>
<td>Honours Program; Part-time, 8 years</td>
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## Full-time Mode

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<td>Core Stream</td>
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<tr>
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</tr>
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<td>COMH3030 (08332) Health Planning, Policy and Evaluation B</td>
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<tr>
<td>COMH3031 (08333) Contemporary Issues in Health, Law and Medicine A</td>
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<td>COMH3032 (08334) Contemporary Issues in Health, Law and Medicine B</td>
</tr>
<tr>
<td>BEHS3078 (103D1) Social Research A</td>
</tr>
<tr>
<td>BEHS3079 (103D2) Social Research B</td>
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<tr>
<td>BIOS3044 (11399) Biological Sciences IIIA</td>
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<tr>
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<td>COMH3034 (08336) Vocational Rehabilitation DIB</td>
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<td>COMH3035 (08337) Disability Studies IDA</td>
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<td>COMH3036 (08338) Disability Studies DIB</td>
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<td>COMH3010 (08310) Special Project</td>
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<td>COMH3011 (08311) Professional Practice DP</td>
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<th>Honours Program</th>
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<td>Year 3 (to be last offered in 1999)</td>
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<td>As for Pass Program</td>
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<td>PLUS Research Elective¹</td>
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<td>COMH4021 (08496) Honours Workshop</td>
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<tr>
<td>COMH4022 (08498) Thesis</td>
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<td>Research Elective¹</td>
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| Stage Total                         | 48 | 24 | 24 |

## Part-time Mode

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<td>COMH3037 (08339) Rehabilitation Counselling DIA</td>
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<tr>
<td>COMH3038 (08340) Rehabilitation Counselling DIB</td>
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| Stage Total                         | 16 | 8 | 8 |

## Notes

1. 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

2. Professional Practice III consists of a 210 hour (6 weeks) block placement in the inter-semester recess.

3. Research Elective. Students select two of the units, one for each year (subject to sufficient student numbers). For Research Electives see Appendix 1.
Bachelor of Health Science (Rehabilitation Counselling)

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

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

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

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

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

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

Course Outline
The course outlines for the Bachelor of Health Science (Rehabilitation Counselling) full-time mode is presented in Table 9.3.

Unit Descriptions

Year 3

COMH3029 (08331) Health Planning, Policy and Evaluation A

Semester 1 - 2 credit points
This unit 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.

COMH3030 (08332) Health Planning, Policy and Evaluation B

Semester 2 - 2 credit points
This unit 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.

COMH3031 (08333) Contemporary Issues in Health, Law and Medicine A

Semester 1 - 2 credit points
This unit introduces students to an understanding of the Australian legal system and general principles and law governing human behaviour. Students are provided with an understanding of the relationship between disability, health and the law. It is designed to give students an understanding of how the law affects persons with a disability (social or physical) and to allow them to explore possible avenues for reform of the law.

COMH3032 (08334) Contemporary Issues in Health, Law and Medicine B

Semester 2 - 2 credit points
This unit provides students with an opportunity to familiarise themselves with contemporary issues in health and medicine. The combined knowledge and skills of this and the previous unit in this strand will be utilised in their critical evaluation of these issues.

BEHS3078(103D1) Social Research A

Semester 1 - 2 credit points
This unit introduces students to the range of qualitative and multivariate statistics used in the examination of the social aspects of the health care system.

BEHS3079 (103D2) Social Research B

Semester 2 - 2 credit points
Data collection and analysis, techniques associated with interviewing and observation, content analysis, survey and experimental research and secondary data analysis are covered.
The electives currently offered are:

- Substance abuse
- Nutritional disorders
- Reproductive health
- Exercise physiology and training for special groups
- Sexual health care
- Head injury
- Sexually transmitted diseases
- Adolescent health
- Ageing
- Healthy lifestyle
- Pollution - health effects
- Cross cultural health care concerns
- Contraceptive choices

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
- Adolescent health
- Ageing
- Healthy lifestyle
- Pollution - health effects
- Cross cultural health care concerns
- Contraceptive choices

BIOS3045 (113A0) Biological Sciences IIIB
Semester 2 - 2 credit points
Students select two more topics for special study.

COMH3033 (08335) Vocational Rehabilitation MIA
Semester 1 - 2 credit points
Students are introduced to the placement process and the issues involved in securing meaningful work for persons with disabilities. Students also become aware of the problems faced by individuals when they return to work following injury or disability.

Students are introduced to an approach of “marketing” clients in the workplace 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.

COMH3034 (08336) Vocational Rehabilitation IIIB
Semester 2 - 2 credit points
Students are exposed to methods of assisting clients to seek their own employment. Job seeking and job maintenance skills are discussed. The program has a practical focus.

COMH3035 (08337) Disability Studies IMA
Semester 1 - 2 credit points
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 selected areas from the electives offered. Each elective topic will be of one semester's duration and each student undertakes one elective in semester one and another in semester two. Not all electives are offered in any one semester.

The electives currently offered are:
- Psychiatric Rehabilitation
- Rehabilitation and Substance 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 HIV/AIDS
- Hearing Impairment and Sign Language

COMH3036 (08338) Disability Studies IIIB
Semester 2 - 2 credit points
Students select a second topic area for special study.

COMH3010 (08310) Special Project
Semester 1 & 2 - 4 credit points
Students are required to research (in small groups) an area of rehabilitation counselling practice or disability. Students present findings of their research in semester two of the course.

COMH4021 (08496) Honours Workshop
Semester 1 & 2 - 4 credit points
Inter-Semester - 210 hours
8 credit points
Students are required to complete a supervised six-week full-time block placement in a rehabilitation or related program. As the final practicum of the three-year professional practice program, students are expected to put into practice their knowledge and skills in rehabilitation counselling through case management and rehabilitation planning, in a supervised setting.

COMH3037 (08339) Rehabilitation Counselling IMA
Semester 1 - 2 credit points
This unit provides students with a general overview of the principles and processes involved in effective case and caseload management in rehabilitation.

COMH3038 (08340) Rehabilitation Counselling IIIB
Semester 2 - 2 credit points
Interview practice which focuses on rehabilitation case management and planning is undertaken.

Honours Program

Research Elective
Semester 1 - 3 credit points
For Research Elective unit descriptions, see Appendix 1.

COMH4021 (08496) Honours Workshop
Semester 1 - 3 credit points
Honours students are assisted with the development of their individual research projects for completion of their thesis in year four. At the completion of the unit, each student has prepared a written proposal for their research project.

COMH4022 (08498) Thesis
Semester 1 & 2 - 42 credit points
Students are given the opportunity to undertake a supervised research project in one of the range of areas of rehabilitation and/or disability. Students design and implement an approved project under the supervision of an academic staff member, and submit a thesis describing the project and its implications for service delivery and further research.
## Table 9.3.1 Bachelor of Health Science (Rehabilitation Counselling)

**Course**  
**Code**  
0878  Full-time; 4 years  
0879  Honours; full-time, 4 years

### Full-time Mode

#### Year 1

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<th>Mode</th>
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<td>COMH1088</td>
<td>Introduction to Rehabilitation Philosophy</td>
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<td>COMH1090</td>
<td>Ethical Perspectives of Rehabilitation</td>
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<td>COMH1091</td>
<td>Professional Practice I</td>
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<td>BEHS1118</td>
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<td>BEHS1129</td>
<td>Research Methods I: Design</td>
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<td>Introduction to Health Sociology</td>
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<td>BEHS1153</td>
<td>Clients, Practitioners and Organisations</td>
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<td>BIOS1110</td>
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**Stage Total** 48  24  24

#### Year 2

(to be first offered in 1999)

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<td>COMH2065</td>
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**Stage Total** 48  24  24

#### Year 3

(to be first offered in 2000)

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<td>COMH3021</td>
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<td>Accident Compensation Schemes Practicum</td>
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<td>Legal Perspectives of Rehabilitation</td>
<td>Full-time</td>
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<td>Full-time</td>
<td>2</td>
</tr>
<tr>
<td>COMH3039</td>
<td>Medical Aspects of Disability B</td>
<td>Full-time</td>
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<td>COMH3026</td>
<td>Psychiatric Rehabilitation</td>
<td>Full-time</td>
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<td>COMH3027</td>
<td>Professional Practice III</td>
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<td>COMH3028</td>
<td>Philosophy and Politics of Disability and Rehabilitation</td>
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<td>BEHS3076</td>
<td>Behaviour Disorders and Management</td>
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**Stage Total** 48  24  24
Bachelor of Health Science
(Rehabilitation Counselling)

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

The degree can only be completed on a full-time basis. A minimum of four years enrolment is required for those undertaking the course on a full-time basis. Enrolment for those undertaking the Honours component (which is entered at the commencement of Year three) is four years full-time.

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

i) Professional or academic attainment other than HSC;
AND

ii) A commitment to work in the rehabilitation counselling field;
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) is presented in Table 9.3.1.

Unit Descriptions

Year 1

COMH1086 (08186) Vocational Rehabilitation IA
Semester 1 - 3 credit points
Vocational Development, Counselling and Disability

The unit 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 on this process. Theories of vocational development are analysed with special reference to their appropriateness to individuals with disability.

COMH1087 (08187) Vocational Rehabilitation IB
Semester 2 - 3 credit points
Pre-requisite 08186 Vocational Rehabilitation IA
Vocational Counselling, Planning and Disability

The unit introduces students to the process of vocational rehabilitation and stresses the importance that vocational counselling plays in the overall success of this process. A vocational counselling framework and the tools and resources to support it are presented to students. Strategies for planning for and implementing vocational counselling decisions are also introduced.

COMH1088 (08188) Introduction to Rehabilitation Philosophy
Semester 1 - 3 credit points

Students examine and analyse the historical and philosophical background relating to the emergence of rehabilitation as a human service. The unit focuses on changes in attitudes towards disability, the interrelationship between medical practice and disability and the social background leading to the demand for rehabilitation services. These historical changes are related to the various philosophical views of human nature that have informed and underpinned the developments in social policy on health and rehabilitation services.

COMH1089 (08189) Ethical Perspectives of Rehabilitation
Semester 2 - 3 credit points

The unit provides an introduction to ethical principles as they are applied to health care and rehabilitation. It is designed to introduce students to theoretical perspectives of ethical principles and reasoning. The unit also introduces students to the concept of applying ethical principles in the analysis of contemporary dilemmas in health care and counselling, and in the conduct of research.

COMH1090 (08190) Professional Practice I
Semesters 1 and 2 - 12 credit points

The practicum comprises an essential component of the overall process of developing professional competence and identity as a rehabilitation counsellor. In the first year students are 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.

BEHS1118 (101D6) Rehabilitation Psychology IA*
Semester 1 - 3 credit points

Students gain an understanding of the major theoretical perspectives, concepts and vocabulary of psychology as the science of human behaviour. How individuals perceive, think about and behave in the world is examined as well as explaining and predicting what they might do at any particular time.

* Also available in off-campus mode.

BEHS1119(101D7) Rehabilitation Psychology IB
Semester 2 - 3 credit points

The unit allows students to apply the principles of psychology examined in Semester 1. Students complete a series of practical exercises, beginning with structured activities in class and leading to small group projects in areas of special interest. The practical exercises will require students to consider design issues, participate in data collection, evaluate findings and communicate findings.

BEHS1129 (101E7) Research Methods I: Design
Semester 1 - 3 credit points

This unit introduces students to the research process and focuses on developing informed consumers of research. The unit briefly considers the philosophy of science and covers research ethics, qualitative and quantitative research, development of research questions, specification of hypotheses and variables, conceptualisation and operationalisation, sampling issues, validity and reliability. A broad range of research methods will be introduced, such as 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.

The importance of research methods to evidence-based practice will be emphasised.

BEHS1132 (101F0) Introduction to Health Sociology*
Semester 1 - 3 credit points

This unit provides an understanding of basic sociological concepts and theories and their application in analysing health in Australia; and develops the ability to critically examine and evaluate aspects of society which are often taken for granted in order to extend the students understanding of the social structures, institutions and processes relevant to health in Australia. The unit also provides opportunities for enhancing linguistic, writing, and analytical skills by introducing some of the sociological methods of collecting, analysing and reporting health data.

* Also available in off-campus mode.
various techniques to specific disability groups and are introduced to vocational report writing.

Students are exposed to the range of client assessment techniques available, discuss the relevance of appropriate evaluation of the client as an adjunct to vocational counselling and overall vocational planning. Ethical issues such as confidentiality and privacy are addressed.

Independent learning modules are available.

BIOS1110 (111B9) Human Anatomy and Physiology A

This unit introduces cellular structures and function including cellular metabolism, protein synthesis and cell division. In order to understand the structure and functions of the cell some aspects of chemistry and biochemistry will be discussed. Growth, development and aging of humans will also be covered. This unit includes a limited number of laboratory classes and tutorials. Independent learning modules are available.

BKS1111 (111 CO) Human Anatomy and Physiology B

This unit is an introduction to the systems of the body using the theme of homeostasis. The eight systems studied are the digestive, endocrine, cardiovascular, respiratory, nervous, renal, musculoskeletal and reproductive systems. This unit includes a limited number of laboratory classes and tutorials. Independent learning modules are available for the student's use.

Year 2

COMH2059 (08275) Rehabilitation Counselling IA

The unit aims to develop students' understanding of the application of counselling theories and practices in the process of rehabilitation counselling. Ethical issues such as confidentiality and privacy are addressed.

COMH2060 (08276) Rehabilitation Counselling IB

Students are introduced to and provided with the opportunity for practice in the purposeful application of basic interviewing skills in the counselling process.

COMH2061 (08277) Vocational Rehabilitation IIA

Client Vocational Assessment

The unit aims to give students an appreciation of the importance of appropriate evaluation of the client as an adjunct to vocational counselling and overall vocational planning. Students are exposed to the range of client assessment techniques available, discuss the relevance of various techniques to specific disability groups and are introduced to vocational report writing.

COMH2062 (08278) Vocational Rehabilitation IIB

Assessing the Job and the Workplace

The unit highlights the need to assess the workplace and specific jobs in tandem with client assessment. Students learn 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. The issues of prevention and management of disability in the workplace are also addressed.

COMH2063 (08279) Case Management and Rehabilitation Planning I

Semester 1 - 2 credit points

The unit provides students with general theoretical principles which underlie good case management practice such as organisation, time management, decision making, conflict resolution, team building, budgeting, timeliness of service, negotiation, record keeping. The essence of case and caseload management in rehabilitation is defined and issues relating to the subtleties of case management in different rehabilitation populations such as compensable vs non-compensable, physical vs psychiatric disability are explored and clarified.

COMH2064 (08280) Case Management and Rehabilitation Planning II

Semester 2 - 2 credit points

Prerequisite COMH2063 Case Management and Rehabilitation Planning I

The unit builds on the theoretical base presented in Case Management and Rehabilitation Planning I. Students are introduced to the fundamental elements of the case management process as they relate to all rehabilitation clients. Exercises relevant to each of the stages/aspects of the process are presented. Students are introduced to computerised case management systems to assist in the management of work injury cases. During the course, students are asked to case manage clients from beginning to end. Some clients have a compensation history, and the others have no compensation involvement.

COMH2065 (08281) Occupational Health, Disability and Rehabilitation A

Semester 1 - 2 credit points

Students are provided with a broad conceptual framework for understanding historical developments in work organisation and workpracticesinmodern industrial society. The unit highlights developments in psychology and sociology that have had an impact on labour organisation. Particular attention is paid to issues of significance to vocational rehabilitation such as occupational health, women in the workplace and issues relating to workers from immigrant backgrounds.

COMH2066 (08282) Occupational Health, Disability and Rehabilitation B

Semester 2 - 2 credit points

The pattern of occupational injury and illness in Australia is described and explained in terms of the organisation of work, and also the rehabilitation of people with work-related disabilities is analysed in the context of the various social strategies devised to deal with the widespread failure of measures to prevent workplace injuries and illnesses.
The practicum includes two field practice placements to be undertaken at separate agencies. The first placement provides students with an orientation to the practical application of their studies up to four weeks of field experience in an 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 inter­semester recess. The practicum provides students with the opportunity to put into practice in their supervised setting knowledge acquired in their studies.

BEHS1131 (101E9) Research Methods II: Data Analysis Statistics
Semester 1 - 3 credit points
Prerequisites Research Methods I: Design (BEHS1129) or Research Methods I

This unit of study introduces prospective health science practitioners to methods for exploring and understanding qualitative and quantitative data with an emphasis on interpretation and implications for outcomes and quality assurance. Methods for collecting, exploring, and presenting data are discussed from the perspective of the practitioner. Qualitative and quantitative methodologies, numerical summaries and graphical methods are covered for both one and two variables, comparisons and relationships. Emphasis is placed on explaining patterns in data, outliers, variability, possible causes and mechanisms which generate the data. Distributions are introduced with particular reference to their substantive generating mechanisms. In particular, normal curves, survival type curves and sampling distributions are examined with methods for investigating trends and departures from the overall pattern. The nexus between qualitative and quantitative methodologies is explored in the context of inference and scientific method. Inferential procedures for one and two variables, comparisons and relationships are used to illustrate this interdependence.

BEHS210B (102C0) Rehabilitation Psychology IIA
Semester 1 - 2 credit points
Prerequisite Rehabilitation Psychology IA (BEHS1118) and Rehabilitation Psychology IB (BEHS1119)

Students learn a general understanding of the social position and life experiences of people with disabilities. On the basis of this knowledge, students are able to examine their own attitudes and professional behaviour towards people with disabilities and make changes to improve the effectiveness of the services they deliver.

Impact of disability. Factors are studied which influence people’s reactions and adjustment to disability. Resources are identified in the individual and the community which facilitate full participation in the life of the community.

Cognitive and neurological function. An introduction to fundamental areas of normal cognitive function and changes which occur as a result of brain dysfunction. Application is made to the management of cognitive deficits.

BEHS2109 (102C1) Rehabilitation Psychology MB
Semester 3 - 2 credit points
Prerequisites Rehabilitation Psychology IA (BEHS1118) and Rehabilitation Psychology IB (BEHS1119)

Social psychology. Introduction to theories and research on interaction between people, particularly at work. A variety of theoretical perspectives are described, allowing students to understand more effectively social processes in the workplace. Psychology of work. Introduction to the main psychological approaches employed in understanding work behaviour. Students appreciate their own and others’ work behaviour in an organisational setting.

BIOS2086 (112E1) Pathophysiology and Pharmacology A
Semester 1 - 2 credit points
Prerequisites Human Anatomy and Physiology A (BIOS1110) and Human Anatomy and Physiology B (BIOS1111)

Neuromuscular basis of disability: structure and function of the nervous system and the muscular system in relation to the pathophysiological basis of disease in these systems. Basic pathophysiology: Students are introduced to disturbances in the homeostatic processes in the body systems that present as acute and chronic disease.

BIOS2087 (112E2) Pathophysiology and Pharmacology B
Semester 3 - 2 credit points
Prerequisites Human Anatomy and Physiology A (BIOS1110) and Human Anatomy and Physiology B (BIOS1111 II)

Microbiology: The range of infectious organisms is considered, the principles of cross infection and the operation of the immune system. Introduction to Pharmacology: Basic pharmacological principles and the actions of the major drug companies are addressed.
Table 9.4 Aboriginal Health Science Support Program

Course
Code Mode of Offer
0740 Part-time; 3 years

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Unit Name</th>
<th>Credit Points</th>
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<td>AHCD1015</td>
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<td>AHCD2011</td>
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Notes
- Includes 2 credit points prior to start of academic year
- Includes 1 credit point prior to start of year
- Offered semester 1 or 2

Aboriginal Health Science Support Program

Students in the Aboriginal Health Science Support Program undertake a selection of the following Support Program units, based on an individual needs assessment conducted by Yoorang Garang, and depending on the students' course and course load. The average number of hours in the Support Program is six to eight hours per week for the first two years of enrolment and one to four hours in their third year.

Admission Requirements
Admission to the Aboriginal Health Science Support Program is dependent upon satisfying the eligibility criteria under the Cadigal Policy (see Chapter 3). Selection of students under this Policy may be based on an interview. All students who are offered a place in an award course under the Cadigal Policy will participate in the Aboriginal Health Science Support Program during the first three years of enrolment.

Course Outline
The course outline for the Aboriginal Health Science Support Program is presented in Table 9.4.

Unit Descriptions

Years 1 and 2

AHCD1009 (07157) Anatomy Support (A)
Semester 1 - 4 credit points
This unit 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 unit continues to be offered concurrently with the anatomy component of the student's course and provides the opportunity for students to review and consolidate concepts covered in that component of their course.

AHCD1010 (07158) Anatomy Support (B)
Semester 2 - 2 credit points
The unit runs concurrently with the anatomy component of the student's course and provides the opportunity for students to review and consolidate concepts covered in that component of their course.
AHCD1011 (07159) Biological Sciences Orientation  
Semester 2 - 2 credit points
The material covered in this unit 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.

AHCD1012 (07160) Biological Sciences Support (A)  
Semester 1 - 3 credit points  
Semester 2 - 3 credit points

AND

AHCD1013 (07161) Biological Sciences Support (B)  
Semester 1 or 2-3 credit points
These concurrent units provide students with an opportunity to revise and consolidate content covered in human biology/physiology units. Both group and individual tuition is provided.

AHCD1014 (07162) Physics Support  
Semester 1 - 4 credit points  
Semester 2 - 2 credit points
The unit 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 units, and the opportunity to revise and consolidate concepts covered in the physics component of their course. It also covers the mathematical concepts required.

AHCD1015 (07163) Research Methods Support (1)  
Semester 1 - 2 credit points
This unit aims to provide students with the opportunity to further understand and use experimental and descriptive research methods.

AHCD1007 (07151) Aboriginal Studies  
Semester 1 or 2-1 credit point
This unit 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.

AHCD1006 (07149) Study Skills  
Semester 1 - 3 credit points  
Semester 2 - 1 credit point
This unit 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.

AHCD1016 (07164) Professional Studies Support (1A)  
Semester 1 or 2-2 credit points

AND

AHCD1017 (07165) Professional Studies Support (1B)  
Semester 1-2 credit points  
Semester 2 - 2 credit points
These unit supports one or more of the professional units a student may be having difficulty with. It is based on individual student need.

AHCD1018 (07166) Biomechanics Support (1)  
Semester 1 or 2 - 2 credit points
This unit 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.

AHCD1019 (07167) Neurobiology Support  
Semester 1 or 2-3 credit points
This unit 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.

AHCD1020 (07168) Behavioural Sciences Support (A)  
Semester 1 or 2-2 credit points

AND

AHCD1021 (07169) Behavioural Sciences Support (B)  
Semester 1 - 3 credit points  
Semester 2 - 3 credit points
These units aims to introduce students to the fundamental concepts of behavioural sciences and to provide them with an opportunity to revise and consolidate content covered in the behavioural sciences component of their course.

AHCD1022 (07170) Mathematics Orientation  
Semester 2 - 1 credit point
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.

AHCD1023 (07171) Mathematics Support (A)  
Semester 1 or 2-1 credit point

AND

AHCD1024 (07172) Mathematics Support (B)  
Semester 1 - 1 credit point  
Semester 2 - 1 credit point
The material covered in these units depends on the course being undertaken by the student. The aim of the unit is to provide students with an opportunity to revise and consolidate the mathematical concepts/content covered in the biomedical sciences units.

Year 3

AHCD2008 (07255) Biomechanics Support (2)  
Semester 1 or 2-2 credit points
This unit 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.

AHCD2009 (07256) Professional Studies Support (2)  
Semester 1 - 1 credit point  
Semester 2 - 1 credit point
This unit supports one or more of the professional units a student may be having difficulty with. It is based on individual student need.
AHCD2010 (07257) Research Methods Support (2A)
Semester 1 or 2 - 3 credit points
AND
AHCD2011 (07258) Research Methods Support (2B)
Semester 1 - 2 credit points
Semester 2 - 2 credit points
These units aim to provide students with the opportunity to further understand and use experimental and descriptive research methods.

Table 9.5 Aboriginal Health Science Preparatory Program

<table>
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<th>Course Code</th>
<th>Mode of Offer</th>
<th>Course Title</th>
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<td>Full-time</td>
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<tr>
<td>AHCD1003</td>
<td>(07138)</td>
<td>Mathematics Workshop</td>
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</table>

Aboriginal Health Science Preparatory Program

Admission Requirements
Admission to the Aboriginal Health Science Preparatory Program is based on an assessment (including interview) conducted by Yooroong Garang. It is expected that students who do not meet the eligibility criteria under the Cadigal Policy, may apply for entry to the Preparatory Program. However, it should be noted that successful completion of the Preparatory Program does not guarantee a student a place in a degree course, but does provide them eligibility for selection under the Cadigal Policy. The Preparatory Program is open to students with an HSC mark lower than that needed under the Aboriginal Special Admission Policy and mature age students over the age of 21.

Course Outline
The course outline for the Aboriginal Health Science Preparatory Program is presented in Table 9.5.

Unit Descriptions

AHCD1025 (07173) Anatomy Workshop
This unit 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.

AHCD1026 (07174) Human Biology Workshop
This unit introduces students to the study of human biology. It begins with an introduction to basic chemical concepts, and related mathematical concepts, such as scientific measurement and graphing. It moves on to cover important physiological concepts such as cell structure, metabolism, genetics and the physiology of various body systems. The unit has a large practical component aimed at teaching laboratory skills.

AHCD1005 (07140) Aboriginal Studies
This unit 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.

AHCD1004 (07139) Study Skills Workshop
This unit 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 unit includes both group and individual tuition.

AHCD1027 (07175) Behavioural Science Workshop
This unit introduces students to the study of behavioural science. It uses topics such as health as the basis for exploring contemporary sociological and psychological theories. Emphasis is placed on developing skills needed to study behavioural science successfully, including field observation, presenting seminars and reading research reports.

AHCD1003 (07138) Mathematics Workshop
This unit aims to teach the numeracy skills students may need in their chosen course. It takes into account individual student's past experience of learning maths, and deals with issues such as maths anxiety. It aims to teach numeracy in the context of students' culture and their aspirations for undertaking study in a particular award course. The unit includes both group and individual tuition.
Field Experience/Professional Practice

(Rehabilitation Counselling)
Field Experience is an essential component in the overall process of developing professional competence and identity as a Rehabilitation Counsellor. It not only provides students with an opportunity to apply, integrate, reinforce and assess theoretical learning, but also allows them to appreciate the way in which rehabilitation counsellors and other allied professionals contribute to the effectiveness of the rehabilitation process.

Field placements are provided in a wide variety of rehabilitation and related health, welfare, vocational and independent living services in both the public and private sectors.

The objectives of field experience are that the students be provided with opportunities to:

• develop competence and professional identity as rehabilitation counsellors
• integrate theory taught at the University with practice learnt in the field. Field experience provides the context where all segments of the coursework merge and gain meaning
• develop an understanding of the values and principles of rehabilitation counselling practice as applied in different fields/levels of application
• develop knowledge and skills in various rehabilitation counselling methods and related activities under the guidance, supervision and support of experienced practitioners in the service delivery environment
• develop confidence, independence and autonomy as practitioners.

These objectives are fulfilled by placement blocks of supervised field practice complemented by supporting seminars, tutorials and agency visits. At least one placement is to be supervised by a practising/qualified rehabilitation counsellor.

Bachelor of Health Science (Rehabilitation Counselling)
All students are required to complete 600 hours of supervised field practice over the three year program, in the unit 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 coordination, monitoring and supervision of the field practice program. As far as practicable, the student’s areas of interest and career goals are given consideration in the planning of their field placements.

Assessment: a pass in this unit is dependent on assessment of each field placement on the basis of:

• agency supervisor’s student evaluation
• a daily log or report on the field experience activities and impressions, including a case study
• satisfactory performance and attendance at the tutorials and agency visits/seminars component of the field experience program.

The Co-ordinator of Professional Practice can be contacted on Ph: (02) 9 351 9329.

1999 Field Placement Dates

Bachelor of Health Science (Rehabilitation Counselling)

Year 1
118 hours during semester and inter-semester periods.

Year 2
28 June to 6 August (inter-semester break)

Note: Students will be expected to have completed four weeks supervised field experience/agency work by the end of semester/year 2, before commencement of this placement.

Year 3
28 June to 6 August (inter-semester break)

Note: Some modifications to these schedules are possible to accommodate time constraints of students and supervisors.
10 School of Exercise and Sport Science

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

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

Information about the School and its courses of study can be obtained from the Faculty of Health Sciences Student Administration Services (Cumberland), 9 351 9161 or from the School of Exercise and Sport Science, 9 351 9612.

Table 10.1 Bachelor of Applied Science (Exercise and Sport Science)

<table>
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Year 3

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Year 4 (Honours Program)

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Electives Year 3 (4 credit points each)*1

- BIOS3044  (113A2) Hormones, Metabolism and Exercise
- BEHS3068  (103C1) Sociology and Psychology of Organisations
- EXSS3004  (22304) Ergonomics
- EXSS3007  (22307) Readings and Conference
- EXSS3016  (22316) Sport Pharmacology
- EXSS3018  (22318) Management, Marketing and the Law

Selected Studies*1

- BIOS1094  (111A3) Fundamental Computer Skills
- BIOS1095  (111A4) Data Management and Presentation
- EXSS1005  (22105) Sport First Aid/Trainer
- EXSS1007  (22107) Health Centre Management
- EXSS1008  (22108) Sport Coaching
- EXSS1011  (22111) Performance Analysis

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Notes

* To fulfill the requirements of the course students are required to complete a total of three of the Elective Units of Study.
# To fulfill the requirements of the course students are required to complete a total of three of the Selected Studies.
1 The offering of any one of these Elective Units of Study and Selected studies will depend on sufficient student demand.

**Bachelor of Applied Science (Exercise and Sport Science)**

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

**Admission Requirements**

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

**Course Outline**

The course outline for the Bachelor of Applied Science (Exercise and Sport Science) is presented in Table 10.1.
**Unit Descriptions**

**Year 1**

**BEHS1109 (101C6) Psychosocial Aspects of Recreation and Sport**

Semester 1 - 5 credit points

The psychology module covers the principles of psychology and applications of psychology to the sporting context. Topics will include achievement motivation, social relations, group interactions, sport related social phenomena, and the psychological benefits of exercise. The sociology module 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 sociology and sport and leisure.

**BIOS1108 (111B7) Body Structure, Homeostasis and Movement I**

Semester 1-4 credit points

This unit 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 the environment, particularly during exercise. This will include an introduction to the major systems of the body including: musculoskeletal and nervous systems. The unit includes laboratory classes which incorporate study from human cadavers where appropriate. Attendance at such classes is a requirement for this unit.

**BIOS1109 (111B8) Body Structure, Homeostasis and Movement II**

Semester 2 - 5 credit points

This unit 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 the environment, particularly during exercise. This will include an introduction to the major systems of the body including: musculoskeletal and nervous systems. The unit includes laboratory classes which incorporate study from human cadavers where appropriate. Attendance at such classes is a requirement for this unit.

**BIOS1079 (11187) Molecules, Food and Energy**

Semester 1 - 5 credit points

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

**EXSS1001 (22101) Mechanisms of Movement**

Semester 1 - 4 credit points

This unit aims 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.

**EXSS1002 (22102) Muscle Mechanics**

Semester 2 - 5 credit points

Pre-requisite Body Structure, Homeostasis and Movement I (BIOS1108)

Co-requisite Body Structure, Homeostasis and Movement II (BIOS1109)

This unit provides students with an in-depth understanding of skeletal muscle as a "machine" which generates force and exchanges power with other systems. The unit covers the microscopic structure of muscle and the molecular basis of force production and regulation. The output characteristics of muscle is described, and the effect of changes in the operating environment of muscle (such as length, velocity, stretch, stimulation patterns, etc) will be explored, including implications for maximising performance. Practical sessions 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.

**EXSS1012(22112) Quantitative Biomechanics**

Semester 2 - 5 credit points

Pre-requisites Mechanisms of Movement (EXSS1001)

This unit reinforces the understanding of mechanical principles and their application to human movement. Topics include: kinematics, vectors, Newton's laws of motion, work, energy, power, and momentum; for both translational and rotational motion; and the influence of fluids on motion. Emphasis is placed on developing mathematical skills and analytical problem-solving techniques. The laboratory classes complement the lectures; providing opportunities to validate mechanical principles in a quantitative manner.

**EXSS1013 (22113) Fundamentals of Exercise Science**

Semester 2-6 credit points

This unit provides students with the fundamental principles and practices of exercise science, which comprises fitness assessment and exercise prescription for cardiorespiratory endurance, high resistance training and flexibility. The unit examines the rationale for fitness assessments of the general population, children and the elderly, as well as provide the skills to safely and competently perform the appropriate laboratory and field tests for each fitness component. In addition, this unit explores the fundamentals of exercise programming for the general population with an emphasis towards developing aerobic fitness, muscular strength and body fat reduction. On completion of this unit the student will gain an understanding of the major principles and the underlying physiological basis of fitness testing and be able to structure an effective exercise program, to achieve enhanced physical performance without incurring injury.
BEHS2098 (102B0)  Behaviour Modification and Exercise Adherence
Semester 1 - 4 credit points
The general aim of this unit is to introduce students to the theoretical underpinnings and practical application of behaviour modification techniques, and to psychological approaches to exercise adherence. By exposure to both lectures and seminar sessions, students will obtain the knowledge base to enable them to apply behaviour modification techniques to exercise adherence.

BHDS2073 (112C5)  Kinesiology and Applied Anatomy
Semester 1 - 5 credit points
Pre-requisites  Mechanisms of Movement (EXSS1001), Body Structure, Homeostasis and Movement I (BIOS1108)
This course aims to provide students with an in depth understanding of the skeleton, articulations and the muscles of the body. Emphasis will be placed on the functional and applied aspects of the musculoskeletal system and how they interact during human movement.

EXSS2010(22210)  Mechanisms of Injury
Semester 2 - 5 credit points
Pre-requisite  Body Structure, Homeostasis and Movement I (BIOS1108)
This unit provides students with an understanding of the structure of tissues such as ligament, tendon, cartilage and bone, and physical processes whereby the structure of these tissues are disrupted by mechanical trauma. In addition the biological response of these tissues to injury is explored (ie. the processes of inflammation and healing) as well as their adaptations to levels of chronic loading such as immobilisation and exercise. The unit addresses how forces are transmitted through specific regions of the body, such as the knee joint, and how sport practices may modify the likelihood of injury.

EXSS2001 (22201)  Growth, Development and Ageing
Semester 2 - 5 credit points
Pre-requisite  Body Structure, Homeostasis and Movement I (BIOS1108)
This course aims to provide students with an understanding of growth, development and ageing of the human from prenatal until elderly, with particular reference to the effect on physical performance. Motor skill development and physical performance will be examined and related to morphology and stages of growth. The relationship between biological measurements, growth, gender and chronology will be explored.

EXSS2011 (22211)  Motor Control and Learning I
Semester 1 - 5 credit points
Pre-requisite  Body Structure, Homeostasis and Movement I (BIOS1108)
This unit will examine the nature and cause of movement and the maintenance of posture and balance. Models will be developed which emphasise the control of movement as an interaction between the nervous system, skeletal muscle and the environment. The unit integrates the mechanical models of movement presented in previous units with biological models to produce a more complete description of the motor system.

EXSS2012 (22212)  Motor Control and Learning II
Semester 2 - 5 credit points
Pre-requisite  Motor Control and Learning I (EXSS2011)
This course provides a detailed introduction to the concepts of motor learning. Within each topic selected, the relevant theories and research studies are examined, not only with a view to producing understanding of the material, but also in order to encourage critical thinking and an appreciation of the successes and limitations of current knowledge. Most importantly, this course will focus on the practical implications of the concepts covered, thereby enabling students to apply the principles of skilled performance and learning in teaching, coaching and rehabilitation.

EXSS2003 (22203)  Biochemistry of Exercise
Semester 1 - 5 credit points
Pre-requisite  Molecules, Food and Energy (11187)
This unit investigates strategies of energy balance in exercising skeletal muscle: after examining the structure of the ATP producing pathways, their kinetic characteristics will be contrasted in terms of rates of maximum flux and flux capacity. The differential regulation of oxidative phosphorylation, glycolysis and of the creatine kinase reaction, by signals representing exercise intensity and duration will be examined in depth. Specific sporting examples of high power output(sprinting) and long duration (endurance) activities will be discussed. The processes of fuel mobilisation during exercise and storage during non-exercise periods will be discussed.

EXSS2013(22213)  Exercise Physiology I
Semester 1 - 5 credit points
Pre-requisite  Fundamentals of Exercise Science (EXSS1013)
The content of this unit builds on the principles and information provided in the first year of the program to introduce the student to the exercise response. An integrative approach to the processes associated with physical work capacity and the response of the cardiorespiratory system to the stresses imposed by exercise will be presented.

EXSS2014 (22214)  Exercise Physiology II
Semester 2 - 5 credit points
Pre-requisite  Exercise Physiology I (EXSS2013), Biochemistry of Exercise (EXSS2003)
This unit introduces the acid-base regulatory system and the concept of anaerobic and lactate threshold. The unit will examine how the respiratory, cardiovascular and skeletal systems cope with heavy exercise and stressful environments of heat, cold, high altitude and air pollution. The effects of shift work and jetlag on exercise, and the relationship between exercise and sleep will be discussed.

EXSS2007 (22207)  Nutrition and Sports Performance
Semester 2 - 4 credit points
Pre-requisite  Biochemistry of Exercise (EXSS2003)
This unit aims to provide students with an understanding of the principles and practice of nutrition applied to sports performance. The unit will focus on the role of carbohydrates, proteins and lipids in energy metabolism during exercise, the role of macro and micronutrients in health and the effects of eating disorders and dietary deficiencies in athletes.
EXSS3001 (22301)  Exercise Physiology III  
Semester 1 - 5 credit points  
Pre-requisites Exercise Physiology II (EXSS2014)  
Co-requisites Exercise Testing and Prescription I (EXSS3010)  
This unit aims to provide the student with an understanding of the integrated response to exercise training, including the immune and endocrine adaptations. The unit will examine topical issues concerning health promotion and performance enhancement in detail.

EXSS3010 (22310)  Exercise Testing and Prescription I  
Semester 1 - 5 credit points  
Pre-requisites Exercise Physiology II (EXSS2014)  
Co-requisites Exercise Physiology III (EXSS3001)  
This unit aims to provide the student with a thorough knowledge of exercise testing in a variety of sporting, health, and vocational settings. The unit will extend the principles of exercise physiology to exercise prescription without repeating the underlying exercise physiology theory.

EXSS3011 (22311)  Exercise Testing and Prescription II  
Semester 2 - 5 credit points  
Pre-requisites Exercise Testing and Prescription I (EXSS3010)  
This unit will give the student the opportunity, as part of a small group, to practically apply the knowledge gained in Exercise Testing and Prescription I and Exercise Physiology I & II to a specific group of individuals (e.g. athletes or healthy individuals). This will involve devising, planning and carrying out of suitable exercise programs. Students will evaluate the outcomes of the exercise prescription program.

EXSS3012 (22312)  Sports Biomechanics I  
Semester 1 - 5 credit points  
Pre-requisites Quantitative Biomechanics (EXSS1012)  
This unit emphasises practical experience in techniques for analysing human movement. The mechanical principles introduced in Quantitative Biomechanics are expanded and applied to the analysis of sporting performance. The combination of technical expertise and theoretical principles will be used to quantitatively analyse movement, and to recommend methods of improving athletic performance or reducing the likelihood of injury.

EXSS3013 (22313)  Sports Biomechanics II  
Semester 2 - 5 credit points  
Pre-requisites Sports Biomechanics I (EXSS3012)  
This unit introduces further techniques for analysing human movement, and their applications to the analysis of sporting performance. Specific analysis techniques such as computer modelling and differences between laboratory and field measurements will be explored. A number of sports will be selected as illustrations of biomechanics applied to the improvement of sports performance.

EXSS3006 (22306)  Research Methods  
Semester 2 - 5 credit points  
This aim of this unit is to explore avenues for applying the scientific processes which have been expounded in the Exercise and Sport Science program. The processes include critical review of research, scientific writing, proposing research, professional reasoning, grantwriting, presentation skills, research design and using statistics. These will be applied to professional occupations in exercise and sport science including management of exercise programs through to academic research. Activities and assessment will focus on practical applications to the professions.

EXSS3014 (22314)  Exercise and Rehabilitation I  
Semester 1 - 5 credit points  
Pre-requisites Exercise Physiology I (EXSS2013)  
This unit investigates the pathophysiology of selected diseases/disorders (cardiorespiratory, endocrine and metabolic) and how the exercise response is effected. Practical aspects of the design, implementation and benefits of exercise programs for these conditions will be considered.

EXSS3015 (22315)  Exercise and Rehabilitation II  
Semester 2 - 5 credit points  
Pre-requisites Exercise and Rehabilitation I (EXSS3014)  
This unit will provide background about the pathophysiological processes resulting from selected diseases of cardiorespiratory system, and endocrinological and metabolic diseases, and explore how these processes interfere with the exercise response. The unit will then detail practical aspects of the design and benefits of exercise programs for cardiorespiratory or metabolic disease.

Honours

Honours Program  
Enterity into the Honours Program is at the end of Third Year and eligibility for admission is based on performance during years 1, 2 and 3 of the course. Selection of students is competitive and based on academic record and research interests. Criteria for admission is based on Weighted Average Mark (WAM). WAM is calculated with weighting for both year and credit point values.

General policies relating to the Honours Program are presented in chapter 3. For further information specific to the Exercise and Sports Science Honours Program, students are advised to contact the School's Honours Program co-ordinator Wendy Gillear, telephone (02) 9351 9528.

Year 4

EXSS4002 (22402)  Honours Thesis  
Semester 1 - 24 credit points  
Semester 2-24 credit points  
In this unit the student undertakes a research project in an area of exercise and sport science. The student designs and implements an approved research project, and submits a thesis describing the project and its implications. In completing the research thesis, the student works closely with an academic staff member who serves as the supervisor.

Electives Year 3 (4 credit points each)

BIOS3049 (113A2)  Hormones, Metabolism and Exercise  
Semester 2 - 4 credit points  
Pre-requisites Biochemistry of Exercise (EXSS2003), Exercise Physiology I (EXSS2013)  
This unit examines the structure and function of hormones, the regulation and response of hormones to exercise and the role hormones play in the exercise response. Particular attention is given to the role and response of hormones with respect to the specificity of exercise, environmental stress, training and clinical states such as diabetes, amenorrhoea and osteoporosis.
EXSS3018 (22318) Management, Marketing and the Law
Semester 2 - 4 credit points
This unit presents management practices and associated responsibilities in a format to allow students to demonstrate a practical and effective level of knowledge of the field of business management. Attention is given to the fundamentals of planning, organising, staffing and control within an organisation as well as the basics of financial and budgetary controls. Proficiency in the area of legal obligations for leasing, insurance, consumer protection, third party liability and associated legislative obligations such as Occupational Health and Safety is developed. Marketing and public relations are introduced to augment the areas of program organisation for facility planning and operations.

EXSS3004 (22304) Ergonomics
Semester 2 - 4 credit points
Pre-requisites: Sports Biomechanics I (EXSS3012), Kinesiology and Applied Anatomy (112CS)
Co-requisites: Sports Biomechanics II
This unit introduces students to a range of issues involved in coaching individuals and team sports, children, the disabled and elite athletes. An integrated approach to the basic principles and practice of sports coaching is presented. On completion of this unit the student will be able to develop an effective sport coaching program with an understanding of the fundamental requirements for skill acquisition, physical conditioning and peak performance.

EXSS3007 (22307) Readings and Conference
Semester 2 - 4 credit points
This unit is designed to meet the individual requirements of students who demonstrate an interest and capacity to undertake in-depth self-directed learning (with supervision) in a major research area in the School of Exercise and Sport Science. Such students identified for this unit will be of a calibre to proceed to the Honours program.

Selected Studies
EXSS1008 (22108) Sport Coaching
Semester 1-3 credit points
This unit introduces students to a range of issues involved in coaching individuals and team sports, children, the disabled and elite athletes. An integrated approach to the basic principles and practice of sports coaching is presented. On completion of this unit the student will be able to develop an effective sport coaching program with an understanding of the fundamental requirements for skill acquisition, physical conditioning and peak performance.

EXSS1005 (22105) Sport First Aid/Trainer
Semester 1 - 3 credit points
This unit aims to provide students with appropriate skills and training for the effective initial management of sport injury situations. On completion of the unit students will be able to execute immediate first aid care with particular attention to extreme environments, soft tissue injuries and demonstrate a sound understanding of communicable diseases and their precautions. Principles and practices for the role of the Sports Trainer in relation to specific injury management, will be explored.

BIOS1094(111A3) Fundamental Computer Skills
Semester 1 - 3 credit points
In this unit 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.

EXSS1011 (22111) Performance Analysis
Semester 2 - 3 credit points
This unit includes knowledge of video recording systems, use of measuring instruments, collecting and analysing data, estimating errors, principles of performance analysis and reporting. This knowledge will be applied in the generation of the student's own video and analysis. For the most part, this subject will be practical application using facilities available at the University.

EXSS1007 (22107) Health Centre Management
Semester 1 - 3 credit points
This unit offers students the basic management and marketing tools necessary for effective health centre management. On completion of this unit students will be able to understand consumer behaviour, implement marketing principles, and implement effective accounting principles.

BIOS1095 (111A4) Data Management and Presentation
Semester 2 - 3 credit points
This unit gives students 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.
11 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 Health Science (Health Information Management), and a Master of Applied Science (Health Information Management). The courses are designed to develop health information managers as key members of the health care team, responsible for the management of patient-related 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.

A Health Information Manager is responsible for the development, implementation, maintenance and administration of medical record and health information systems. A medical record is the key instrument for recording information about the professional care given to a patient. It contains clinical findings and observations about a patient’s medical, surgical and social problems, providing essential information for:

- adequate and continuing patient care
- medical and other health professional education
- clinical research
- casemix information systems
- epidemiological studies and clinical trials
- quality assurance and peer review programs
- utilisation review of health services.

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 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 Health Science (Health Information Management) are eligible for full membership.

Table 11.1 Bachelor of Applied Science (Health Information Management)

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Year 1

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### Year 2

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### Honours Program

### Year 4

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### Notes

1. 1 Week inter-semester placement
2. 3 Weeks inter-semester placement
3. 2 Weeks pre-semester 1 placement
4. 2 Weeks inter-semester placement
Increasing health costs make it essential for health planners to meet the demands of health professionals. The increasing complexity of communication between users and design, plan and implement systems to meet these needs. The increasing complexity of communication between health professionals demands an efficient and effective health 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.

**Full-time and Part-time Study**

The Bachelor of Applied Science (Health Information Management) is structured as a full-time degree course offered over 3 years. However, the School recognises that some students cannot attend full-time and wish to complete their degrees in a longer time. The University offers an enrolment distinction between full-time and part-time students. Students enrolling part-time are those enrolled in a minimum of 6 and a maximum of 17 credit points per semester. Part-time students in Health Information Management are expected to meet "satisfactory progress" requirements. These include:

- Enrolment in the equivalent of at least 8 full units of study per academic year, except when a student has fewer than 8 units remaining to complete requirements for graduation
- Passing the equivalent of 12 units of study over any 2 academic year periods.

Only a limited number of places are available for part-time enrolment and students must seek approval to enrol part-time from the Head of School prior to enrolment at the beginning of the academic year. Any variation in approved enrolment status is not automatically granted and must be applied for. Students requesting to enrol part-time should note that daytime attendance at lectures and practical placements is required for completion of the BAAppSc (HTM) course. At this time, the option of part-time enrolment is only available to a few Year 1 commencing students. Students enrolling part-time should also note the following:

- Part-time students must adjust their load so that they can complete the course within the maximum time. No extensions of maximum time will be granted.
- Minimum time: 6 years from the initial academic year of enrolment
- Maximum time: 10 years from the initial academic year of enrolment

**Admission Requirements**

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

**Course Outline**

The course outlines for the Bachelor of Applied Science (Health Information Management) Pass and Honours courses are presented in Table 11.1.

**Unit Descriptions**

**Year 1**

**HIMT1017 (09117) Clinical Classification I**

*Semester 2 - 4 credit points*

This unit 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, 10th Revision, Australian Modification (ICD-10-AM). Other topics include disease and operation indexing, the NSW Health Department's Inpatient Statistics Collection and NSW Maternal and Perinatal Collection.
HIMT1030 (09130) Health Information Systems II  
Semester 2 • 3 credit points  
Pre-requisite Health Information Systems I (HIMT1037)  
In this unit students extend their study of health information systems to health records used outside hospitals - both in ambulatory and other institutional care settings. Records used in community health, primary care, general practice, domiciliary care, nursing homes and mental health are among the systems examined. Students also complete modules dealing with data forms and screen design; the collection and computation of health care statistics; and concepts and practices used in quality assessment and control in medical record and health information systems. Tutorials concentrate on professional issues through discussion of current literature in the field of health information management.

HIMT1031 (09131) Australian Health Care Systems  
Semester 1 - 3 credit points  
In this unit students are given an overview of the Australian Health Care System. Topics covered include: Commonwealth and state responsibilities for health, health care expenditure, health insurance, health care facilities, and the health workforce. Trends in the provision of health care services are discussed along with an introduction to approaches to measuring the effectiveness of the health care system.

HIMT1033 (09133) Medical Terminology I  
Semester 1 - 3 credit points  
This unit is designed to introduce students to the language necessary to understand the information contained in the medical record. 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.

HIMT1034 (09134) Medical Terminology II  
Semester 2 - 3 credit points  
Pre-requisite Medical Terminology I (HIMT1033)  
This unit 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.

HIMT1035 (09135) Communication  
Semester 1 - 3 credit points  
This unit has been developed to prepare students 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 unit also includes an introduction to the library, access to professional literature and audio-visual media, and referencing.

HIMT1037 (09137) Health Information Systems I  
Semester 1 - 6 credit points  
This unit introduces students to the concepts and components of the health information systems, including the health record as an information system, the development of the health record during the healthcare process and the quality of medical recording. The role of the Health Information Manager (HTM) and the functions of a medical record department are examined along with professional ethics and patient rights. The major component of the unit focuses on hospital record management and covers patient identification, medical record numbering and filing systems, record control, retention and storage, discharge analysis, health record content and structure, including source-orientated medical records (SOMR) and problem-orientated medical records (POMR). Generic records management concepts and procedures are integrated into the unit. Legal aspects related to confidentiality and release of information are examined.

The unit includes an introduction to computerised patient information systems, and students will become familiar with the use of the computerised Patient Master Index (PMI) and Admissions, Transfers and Separations (ATS) system through the New South Wales HOSPAS system. Visits to hospitals to observe and practice skills are a compulsory component of the unit, linked with HIMT1041 Professional Experience IB.

HIMT1039 (09139) Microcomputer Applications  
Semester 1 - 3 credit points  
In this unit students are introduced to microcomputers. This includes the MS-DOS Operating System, a spreadsheet and a word processing package. Students evaluate advantages and limitations of microcomputers in comparison to mainframe computers and learn to use E-mail, the Internet, and CD-ROM.

HIMT1040 (09140) Professional Experience IA  
Semester 1 - 4 credit points  
The unit introduces students to the various procedures, functions and services of the medical record department during field visits and workshops. Students are given the opportunity to perform various tasks in small groups with supervision from a health information manager.

HIMT1041 (09141) Professional Experience IB  
Semester 2 • 4 credit points  
The unit offers students a one week placement during the inter-semester recess which allows the student to consolidate and expand the skills acquired in Professional Experience IA. Field visits and workshops focus on health information systems outside the traditional medical record department.

BEHS1087 (101A2) Introduction to Psychology*  
Semester 2 • 3 credit points  
This unit provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.  
* Also available in off-campus mode.
BEHS1132 (101F0) Introduction to Health Sociology*
Semester 1 - 3 credit points
This unit provides an understanding of basic sociological concepts and theories and their application in analysing health in Australia; and develops the ability to critically examine and evaluate aspects of society which are often taken for granted in order to extend the students understanding of the social structures, institutions and processes relevant to health in Australia. The unit also provides opportunities for enhancing linguistic, writing, and analytical skills by introducing some of the sociological methods of collecting, analysing and reporting health data.
* Also available in off-campus mode.

BIOS1104 (111B3) Basic Human Biology IA
Semester 1-3 credit points
This unit includes an introduction to human biology, the histology of basic tissues, and the anatomy of the skeletal system, the joints and the skin. Principles of homeostasis and metabolism are studied, as are the anatomy and physiology of the cardiovascular system. The aim is to introduce students to the structure and function of the human body, and to the medical terminology associated with these fields. This unit includes some laboratory classes where anatomy is studied from human cadavers.

BIOS1105 (111B4) Basic Human Biology IB
Semester 2 - 3 credit points
This unit covers the anatomy and physiology of the respiratory, renal, reproductive and endocrine systems. Principles of genetics are also introduced. The aim is to expand students' understanding of the structure and function of the human body, and the associated medical terminology. This unit includes some laboratory classes where anatomy is studied from human cadavers.

Year 2

HIMT2031 (09238) Programming Logic and Design
Semester 1 - 3 credit points
This unit 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.

HIMT2036 (09243) Medical Science I
Semester 2 - 3 credit points
Pre-requisite Medical Terminology II (09134)
This unit 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.

HIMT2039 (09246) Professional Experience II
Inter-semester-105 hours (3 weeks) 5 credit points
Pre-requisite Professional Experience I (09136)
This unit allows students 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.

HIMT2042 (09249) Database Systems
Semester 2 ■ 3 credit points
Pre-requisite Programing Logic and Design (HIMT2031)
This unit covers the study of relational database design, using ACCESS, SQL and the Clinical Report System (CRS). This includes data structures, logic database design, the relational model and the functions of a database management system.

HIMT2043 (09250) Clinical Classification IIA
Semester 1-3 credit points
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.

HIMT2044 (09251) Clinical Classification MB
Semester 2 - 5 credit points
Pre-requisite Clinical Classification IIA (HIMT2043)
This unit covers disease notification and registration procedures, especially those related to cancer, infectious diseases, trauma and birth defects. Specialist classifications and nomenclatures for oncology, psychiatry, pathology, ambulatory and primary care, rehabilitation and severity of illness. Practice in ICD-10-AM and the use of computerised encoders is provided. Students are introduced to coding from medical records on site in hospitals.

HIMT2045 (09252) Management Principles I
Semester 1-3 credit points
Pre-requisite Clinical Classification IIA (HIMT2043)
This unit is designed to introduce students to the principles of management and their application to the area of health information management. Topics covered include: management theories; organising and organisational and job design principles; motivation; decision making; change management; occupational health and safety issues; time management; meetings; organisational communication and business reports. An introduction to procedure manual format prepares the students for Professional Experience II.
Inferential procedures for one and two variables, interdependence, comparisons and relationships are used to illustrate this between qualitative and quantitative methodologies is normal curves, survival type curves and sampling explored in the context of inference and scientific method. Distributions are examined with methods for investigating possible causes and mechanisms which generate the data. Trends and departures from the overall pattern. The nexus their substantive generating mechanisms. In particular, Distributions are introduced with particular reference to is placed on explaining patterns in data, outliers, variability, group dynamics and leadership theories.

BEHS2073 (10284) Social Psychology
Semester 1 - 3 credit points
This unit includes the study of social perception and attribution theory, social interaction, social influence, aggression and violence, group dynamics and leadership theories.

BEHS1130 (101EB) Research Methods I
Semester 1 - 3 credit points
This unit briefly considers the philosophy of science and covers research ethics, qualitative and quantitative research, development of research questions, 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. The importance of research methods to evidence-based practice will be emphasised.

BEHS1152 (101F6) Research Methods II: Data Analysis and Statistics
Semester 2 - 3 credit points
Pre-requisite Research Methods I: Design or Research Methods I
This unit of study introduces prospective health science practitioners to methods for exploring and understanding qualitative and quantitative data with an emphasis on interpretation and implications for outcomes and quality assurance. Methods for collecting, exploring, and presenting data are discussed from the perspective of the practitioner. Qualitative and quantitative methodologies, numerical summaries and graphical methods are covered for both one and two variables, comparisons and relationships. Emphasis is placed on explaining patterns in data, outliers, variability, possible causes and mechanisms which generate the data. Distributions are introduced with particular reference to their substantive generating mechanisms. In particular, normal curves, survival type curves and sampling distributions are examined with methods for investigating trends and departures from the overall pattern. The nexus between qualitative and quantitative methodologies is explored in the context of inference and scientific method. Inferential procedures for one and two variables, comparisons and relationships are used to illustrate this interdependence.

BEHS2107 (102B9) Psychology of Work and Management
Semester2 - 3 credit points
Pre-requisite Social Psychology (BEHS2073)
This unit aims to bring behavioural science perspectives to the analysis of work, work behaviour and occupations as applied to health information management and includes workmotivation, work satisfaction, work and the individual, thepsychopathology of work, work stress, technical change, work and leisure, redesigning work and managing change.

BIOS2082 (112D7) Basic Human Biology IIA
Semester 1 - 3 credit points
Pre-requisite Basic Human Biology I (11162)
This unit covers musculoskeletal anatomy, neuroanatomy and neurophysiology, the anatomy and physiology of the visual and auditory/vestibular systems. An introduction to haematology assists students in their understanding of disease processes. This unit includes some laboratory classes where anatomy is studied from models and cadavers.

BIOS2083 (112D8) Basic Human Biology NB
Semester 2 - 2 credit points
Pre-requisite Basic Human Biology I (11162)
This unit continues to build on the understanding of disease processes that students gained in Basic Human Biology IIA. This unit covers the anatomy and physiology of the gastrointestinal system and introduces students to microbiology and infectious diseases, and immunology. This unit includes some laboratory classes where anatomy is studied from models and cadavers.

Year3

HIMT3025 (09325) Financial Management in Health Care
Semester 1 - 3 credit points
In this unit 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 unit covers hospital accounting systems and methods of funding, performance and productivity, hospital cost analysis and control and clinical costing systems.

HIMT3030 (09331) Medical Science II
Semester 1 - 3 credit points
Pre-requisite Medical Science I (09243)
This unit 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.

HIMT3031 (09332) Medical Science III
Semester2 - 2 credit points
Pre-requisite Medical Science II (09331)
In this unit 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.
HIMT3032 (09333) Epidemiology
Semester 2 - 3 credit points
This unit introduces students 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 unit 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.

HIMT3034 (09335) Medico-Legal Principles II
Semester 2 - 2 credit points
This unit 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.

HIMT3041 (09342) Human Resource Management
Semester 1 - 3 credit points
This unit 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.

HIMT3043 (09344) Health Care Evaluation
Semester 2 - 3 credit points
In this unit students are introduced to the concepts of quality healthcare. Approaches to the evaluation of health care at a national level are discussed along with the assessment of health care at an organisational and individual level. Topics covered include evidenced based health care, health outcomes, variations research, consumer satisfaction, total quality management, and clinical indicators. Approaches to improve quality of care such as practice guidelines are discussed. Program evaluation principles will be addressed. Techniques and methodologies for assessing quality of care along with the elements of an effective evaluation program and sources of information for use in evaluation are discussed.

HIMT3044 (09345) Management Principles II
Semester 1 - 3 credit points
This unit builds on Management Principles I and introduces students to the management function of planning with particular applications in the areas of Health Information Management. Other topics include: control; TQM, leadership, power, authority and delegation; managerial ethics; conflict and organisational culture and influences on organisations.

HIMT3045 (09346) Research Project A
Semester 1 - 3 credit points
Pre-requisite Research Methods II: Data Analysis (10287)
This unit, along with Research Project B, has been designed to enable senior students to develop a research proposal indicating an understanding of the research techniques involved and based on some aspect of the theory and practice of health information management.

HIMT3046 (09347) Research Project B
Semester 2 - 3 credit points
In this unit, which builds on Research Project A, students carry out a research project and present a report on the outcome of the project.

HIMT3048 (09349) Professional Experience IDA
Inter-semester - 4 credit points
This unit allows the student to gain direct experience in the organisation and management of medical record and patient information services in hospitals.

HIMT3050 (09351) Clinical Classification IMA
Semester 1 - 2 credit points
Pre-requisite Clinical Classification IIB (09251)
This unit extends the student's skills in clinical coding through practical sessions in a hospital setting.

HIMT3051 (09352) Clinical Classification IIIB
Semester 2 - 3 credit points
Pre-requisite Clinical Classification IIB (09251)
In this unit the most recent coding standards are reviewed, computerised coding software is examined, and methods of quality control for coding are investigated.

BEHS3048 (10396) Sociology of Work and Organisations
Semester 2 - 3 credit points
Pre-requisite Health, Society and Social Change (10285)
This unit further extends the applications of behavioural science to the work situation of the health information manager and includes a study of the occupational structure in industrial societies, career and occupational choice, the profession concept, professionalisation, professions in bureaucracy, the work situation, alienation and occupational socialisation. Also included is a study of organisations in society, sociological perspectives, social structural analysis, formalisation in organisations, hospitals and other organisations, sanctions and social control, professionals in organisations, social definition approaches, communication, disadvantaged and minority groups in organisations.
BEHS3075 (103C8)  Health, Society and Social Change

Semester 1 - 3 credit points
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.

Honours Program

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

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

Year 4

BEHS4037 (10489)  Intermediate Statistics
Semester 1-3 credit points
Pre-requisite Research Methods I (10286) and Research Methods II (10287), or equivalent

In this unit, 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.

Sem 1-21 credit points/Sem 2 - 24 credit points

This unit provides Honours students with the opportunity to undertake an investigation of an area of specialised interest in health information management or a closely related area and prepare a written report including a description of the research question, the process of investigation, a literature review, the findings and their implications in relation to the management of health information.

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.).

1999 Clinical Practice Dates

Bachelor of Applied Science
Year 1
June 28-July 2 (1 week)
Year 2
July 19 - August 6 (3 weeks)
Year 3
1 - 12 February; 15 - 26 February (2 weeks)
July 26 - August 6 (2 weeks)

Uniforms

Uniforms and identification badges must be worn by all students during practical placements.
The School of Medical Radiation Technology was established at the Cumberland College of Health Sciences in 1988 when it offered a Diploma of Applied Science (Medical Radiation Technology). The Bachelor of Applied Science (Medical Radiation Technology) course commenced in 1992. There are three professional streams in the undergraduate course; Diagnostic Radiography, Radiation Therapy and Nuclear Medicine Technology. A Graduate Diploma of Applied Science (Medical Ultrasonography) commenced in 1991. Post-graduate study is now available by research and coursework in all fields of Medical Radiation Sciences, some in distance education mode.

A Diagnostic Radiographer is a qualified health professional who utilises a range of modalities to provide images and data for the diagnosis and treatment of an injury or disease. The diagnostic radiographer has the skills and knowledge to critically analyse the images and data generated to determine whether they are diagnostically adequate and appropriate for radiological interpretation. In the radiology department the diagnostic radiographer will usually work with the radiologist, however, outside the department they may work with a range of medical specialists in a variety of areas.

Diagnostic Radiographers are involved with many digital imaging systems, the most advanced being Magnetic Resonance Imaging, where the diagnosis is made from images gained when a patient is placed in a high intensity magnetic field. This is a very sensitive method of imaging some parts of the body and is a rapidly expanding speciality which allows the radiographer to be "on the cutting edge" for advances in technology and associated research.

A Nuclear Medicine Technologist works in the field of medicine that uses radionuclides in the diagnosis and treatment of disease. A Nuclear Medicine Technologist's responsibilities include the preparation and administration of radiopharmaceuticals to patients and the acquisition and computer analysis of diagnostic functional images using sophisticated instrumentation. Therapeutic radiopharmaceuticals are prepared for administration and are used in the treatment of specific diseases. New developments in both instrumentation, for example, Positron Emission Tomography and radiopharmaceuticals produced from the National Cyclotron make this a rapidly evolving and exciting technology. Nuclear Medicine Technologists have responsibility for critically analysing images and data to determine whether they are of a high diagnostic standard; for performing quality control procedures in all aspects of their work and for ensuring that they provide a high level of patient care.

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 other diagnostic information using ultrasound. Investigations are performed on most soft tissue regions of the body. Increasingly these techniques are able to quantify both function and anatomical detail.

Health professionals working in any of the disciplines described above must combine technical competence and expertise with a high level of communication and interpersonal skills. At all times they must maintain a high level of concern for the care and safety of patients. As health professionals they are an integral part of the medical team.

During the undergraduate course, students are given the opportunity to gain experience in the practice of their discipline whilst on clinical placements. Students visit centres which are part of both the public and private sector. During these placements they have the opportunity to develop an understanding of the career path they have chosen and it's place in the modern medical environment.

Qualifications gained from the School of Medical Radiation Technology are recognised world wide and many of our graduates work in diverse parts of the world. The courses stress the importance of developing a life long attitude to learning and provide graduates with a wide range of generic attributes. These skills allow them to not only develop within their chosen profession, but to branch into different careers as new opportunities present.

Nomenclature used to describe practitioners of the medical radiation disciplines varies due to state industrial awards, regulatory bodies, professional bodies, tradition and common community usage. Diagnostic Radiographers may also be referred to as Radiographers or Medical Imaging Practitioners. Radiation Therapists used to be called Therapeutic Radiographers and this term is still occasionally used. Nuclear Medicine Technologists may also be referred to as Nuclear Medicine Scientists and Medical Imaging Scientists or Practitioners. For many years practitioners of diagnostic ultrasound were referred to as (Medical) Ultrasonographers but now the term Sonographer is preferred. Within NSW all such practitioners working in Public Institutions are included in the category of Medical Radiation Scientists for industrial purposes. It is anticipated that over the next few years the diversity of names will be rationalised.
Table 12.1 Bachelor of Applied Science (Medical Radiation Technology)

<table>
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School of Medical Radiation Technology
### Year 3

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**Stage Total**: 48

### Year 4

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<td>Research in Medical Radiations IB(^1)</td>
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**Stage Total**: 48

### Notes

1. These units of study may be completed in semesters 5 and 6 or semesters 7 and 8, subject to approval by the Head of School.
2. Year 4 units (in special circumstances) may be taken over two years.
3. Students may choose from one of the following electives:
   - COMH4025 (084A5) Epidemiological Research
   - COMH4026 (084A6) Evaluation Research
   - COMH4027 (084A7) History and Philosophy of Scientific Methodology
   - BEHS4037 (10489) Intermediate Statistics
   - BEHS4038 (10490) Multivariate Statistics
   - BEHS4039 (10491) Qualitative Research Methods
   - BEHS4040 (10492) Survey Research Methods

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School of Medical Radiation Technology
Bachelor of Applied Science
(Medical Radiation Technology)

This course has three main streams: Diagnostic Radiography, Nuclear Medicine Technology and Radiation Therapy.

Admission Requirements
There are no specific pre-requisites for admission to the Bachelor of Applied Science (Medical Radiation Technology) course. The general admission requirements in Chapter 3 apply. However, prospective students would benefit from undertaking 2 unit Mathematics, and either two of 2 unit Physics, 2 unit Chemistry, and 2 unit Biology or 3/4 unit Science at HSC level. Good oral English communication skills are assumed as a large component of the course involves dealing directly with people in clinical settings. Advanced standing in some units will be given on the basis of successfully passing a challenge exam.

Course Outline
The course outline with its three streams and Honours Program is presented in Table 12.1.

Unit Descriptions

Year 2

BEHS2103 (102B5) Behavioural Science IIA
Semester 1-2 credit points
Pre-Requisite/Co-Requisite Behavioural Science 1B Introduction to Psychology (101D1)
This unit, Australian Society and Culture, covers the basic sociological concepts and their significance for analysing contemporary Australian society.

BEHS2104 (102B6) Behavioural Science MB
Semester 2 - 2 credit points
Pre-Requisite/Co-Requisite Behavioural Science 1B Introduction to Psychology (101D1)
This unit, Communication and Interaction, applies theoretical perspective and concepts from Psychology and Sociology to aspects of communication and interaction.

BIOS2078 (112D3) Pathophysiology A
Semester 1-3 credit points
Prerequisites Introductory Human Biology (BIOS1084), Anatomy of Body Systems A (BIOS1102), Anatomy of Body Systems B (BIOS1103)
This unit studies microbiology, immunology, pharmacology, neoplasia and the physiology and pathophysiology of the cardio-vascular and gastrointestinal systems relevant to the study of medical radiation technology.

BIOS2079 (112D4) Pathophysiology B
Semester 2 - 3 credit points
Pre-requisites Introductory Human Biology (BIOS1084), Anatomy of Body Systems A (BIOS1102), Anatomy of Body Systems B (BIOS1103)
This unit studies the physiology and pathophysiology of the respiratory, skeletal, renal, endocrine and central nervous systems relevant to the study of medical radiation technology.

BIOS2080 (112D5) Tumour Pathology A
Semester 1-1 credit point
Pre-requisites Anatomy of Body Systems A (BIOS1102), Anatomy of Body Systems B (BIOS1103), Introductory Human Biology B (BIOS1084)
Co-requisite Pathophysiology A (BIOS2078)
This unit studies neoplasia and the detailed pathology of tumours of the skin, haemopoietic, and gastrointestinal systems to provide a foundation to understanding the rationale of oncological regimes.

BIOS2081 (112D6) Tumour Pathology B
Semester 2 - 1 credit point
Pre-requisites Anatomy of Body Systems A (BIOS1102), Anatomy of Body Systems B (BIOS1103), Introduction Human Biology B (BIOS1084)
Co-requisite Pathophysiology B (BIOS2079)
This unit studies the detailed pathology of tumours of the musculo-skeletal, respiratory, reproductive, endocrine, renal and central nervous systems to provide a foundation to understanding the rationale of oncological regimes.

MRTY2037 (18237) Radiation Protection
Semester 1 - 1 credit point
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101).
This unit provides a study of the safe uses of ionising radiation in medicine. Issues of monitoring, shielding and Australian radiation legislation are addressed.

MRTY2038 (18238) Radiation Biology
Semester 2 - 1 credit point
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101), Introductory Human Biology (BIOS1084)
This unit provides a study of the radiobiological effects of ionising radiation. Dose response, damage and repair, sensitisation and protection as well as time, dose and fractionation are all addressed.

MRTY2039 (18239) Sectional Anatomy A
Semester 1 - 2 credit points
Pre-requisites Anatomy of Body Systems A (BIOS1102), Anatomy of Body Systems B (BIOS1103)
This unit facilitates the ability of the student to identify the normal anatomy of the chest and abdomen in sectional images. A framework is created within which organs and structures are identified due to their spatial relationships and appearances as displayed on diagnostic images.

MRTY2040 (18240) Sectional Anatomy B
Semester 2 - 2 credit points
Pre-requisites Anatomy of Body Systems A (BIOS1102), Anatomy of Body Systems B (BIOS1103)
This unit facilitates the ability of the student to identify the normal anatomy of the pelvis, brain and neck in sectional images. A framework is created within which organs and structures are identified due to their spatial relationships and appearances as displayed on diagnostic images.
MRTY2041 (18241) Imaging IA
Semester 1 - 2 credit points
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101), Introduction to Radiography (MRTY1015)
Co-requisite Radiation Protection (MRTY2037)
This unit studies the construction, design and operation of general radiographic equipment. This unit also includes an analysis of scatter in diagnostic radiography.

MRTY2042 (18242) Imaging IB
Semester 1 - 3 credit points
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101), Introductory Radiography (MRTY1015)
Co-requisite Imaging IA (MRTY2041), Clinical Education IA (MRTY2034)
The principles and practice of plain non-contrast radiographic procedures of the "appendicular skeleton", chest and abdominal regions are comprehensively addressed in this unit. This unit studies the radiographic appearance of relevant osseous and visceral anatomy visualised in the plain radiographic procedures taught in this unit.

MRTY2043 (18243) Radiography IA
Semester 1 - 3 credit points
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101), Introductory Radiography (MRTY1015)
Co-requisite Imaging IA (MRTY2041), Clinical Education IA (MRTY2034)
The principles and practice of plain non-contrast radiographic procedures of the "appendicular skeleton", chest and abdominal regions are comprehensively addressed in this unit. This unit studies the radiographic appearance of relevant osseous and visceral anatomy visualised in the plain radiographic procedures taught in this unit.

MRTY2044 (18244) Radiography IB
Semester 2 - 3 credit points
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101), Clinical Education I (18114), Introductory Radiography (18117)
Co-requisites Clinical Education IIA (MRTY2034)
The principles and practice of plain non-contrast radiographic procedures of the "axial skeleton", the upper airway, to image foreign objects, and an introduction to mobile and paediatric radiography are comprehensively addressed in this unit. This unit studies the radiographic appearance of relevant osseous and visceral anatomy visualised in the plain radiographic procedures taught in this unit.

MRTY2045 (18245) Radiographic Pathology IA
Semester 1 - 2 credit points
Pre-requisites Anatomy of Body Systems A (BIOS1102), Anatomy of Body Systems B (BIOS1103), Introductory to Human Biology (BIOS1084)
Co-requisite Pathophysiology A (BIOS2078), Radiography IA (MRTY2043)
This unit provides the student with the basics for pattern recognition of the normal radiographic appearance of the chest abdomen and bony skeleton. The unit will also include identifying some specific injuries and disease processes.

MRTY2046 (18246) Radiographic Pathology IB
Semester 2 - 2 credit points
Pre-requisites Radiographic Pathology IA (MRTY2045)
Co-requisite Pathophysiology B (BIOS2079), Radiography IB (MRTY2044)
This unit compliments the basic pattern recognition learnt in Radiographic Pathology IA. The unit identifies abnormal appearances on radiographic images as used to identify specific pathologies.

MRTY2034 (18234) Clinical Education IIA
Semester 1 - 9 credit points Semester 2 - 8 credit points
Pre-requisites Introductory Radiography (MRTY1015), Clinical Education I (MRTY1013)
Co-requisite Radiography IA (MRTY2043) and Radiography IB (MRTY2044)
This unit provides a structured program of clinical experience to attain knowledge and skills for the radiographic examinations taught in Radiography I.

MRTY2047 (18247) Instrumentation IA
Semester 1 - 2 credit points
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101), Introduction to Medical Radiations (MRTY1014)
This unit studies the construction and design of nuclear medicine instrumentation components.

MRTY2048 (18248) Instrumentation IB
Semester 2 - 2 credit points
Pre-requisite Instrumentation IA (MRTY2047)
This unit studies the operation and quality control of nuclear medicine instrumentation.

MRTY2049 (18249) Nuclear Medicine IA
Semester 1 - 5 credit points
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101), Clinical Education I (MRTY1013)
Co-requisite Radiopharmacy A (MRTY2051), Clinical Education IIB (MRTY2035)
This unit examines in detail the applications of nuclear medicine to the systems of the body including the study of the associated physiological pathways.

MRTY2050 (18250) Nuclear Medicine IB
Semester 2 - 5 credit points
Pre-requisites Nuclear Medicine IA (MRTY2049), Radiopharmacy A (MRTY2051)
Co-requisite Clinical Education IIB (MRTY2035)
This unit examines in detail the applications of nuclear medicine to the systems of the body including the study of the associated physiological pathways.

MRTY2051 (18251) Radiopharmacy A
Semester 1 - 2 credit points
Pre-requisite Introductory Human Biology (BIOS1084)
Co-requisite Nuclear Medicine IA (MRTY2049)
This unit examines the design, production, preparation and biological behaviour of radiopharmaceuticals used in the body systems covered by the unit Nuclear Medicine.

MRTY2052 (18252) Radiopharmacy B
Semester 2 - 2 credit points
Pre-requisite Radiopharmacy A (MRTY2051)
This unit examines the design, production, preparation and biological behaviour of radiopharmaceuticals used in the body systems covered by the unit Nuclear Medicine.
principles of the use of ionising radiation in radiation therapy. Dose calculation is further explored.

In this unit various beam generators and dosimetry equipment are introduced. The physics of radiotherapy is more deeply explored. Problem-based learning methods will be used in this unit.

MRTY2053 (18253) Radiation Therapy IA  
Semester 1 - 4 credit points  
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101), Introductory Radiation Therapy (MRTY1017)  
Co-requisites Radiotherapy Physics IA (MRTY2055), Clinical Education IIC (MRTY2036)

This is the second of five units which cover the principles and applications of applied radiation therapy. Basic treatment, simulation and planning methods are covered with an emphasis on techniques that use combinations of two fields. Isocentric principles will also be introduced. Problem-based learning methods will be used in this unit.

MRTY2054 (18254) Radiation Therapy IB  
Semester 2 - 4 credit points  
Pre-requisites Radiation Therapy IA (MRTY2053)  
Co-requisites Radiotherapy Physics IB (MRTY2056), Clinical Education IIC (MRTY2036)

This is the third of five units which cover the principles and applications of applied radiation therapy. More advanced treatment, simulation and planning methods are covered, with an emphasis on multi-field techniques. Isocentric principles are more deeply explored. Problem-based learning methods will be used in this unit.

MRTY2055 (18255) Radiotherapy Physics IA  
Semester 1 - 2 credit points  
Pre-requisites Radiation Physics A (BIOS1100), Radiation Physics B (BIOS1101), Introductory Radiation Therapy (MRTY1017)

This is the first of four units which cover the physical principles of the use of ionising radiation in radiation therapy. The physical basis of beam calibration and dose calculation for fixed and isocentric radiotherapy are addressed.

MRTY2056 (18256) Radiotherapy Physics IB  
Semester 2 - 2 credit points  
Pre-requisites Radiotherapy Physics IA (MRTY2055)

This is the second of four units which cover the physical principles of the use of ionising radiation in radiation therapy. In this unit various beam generators and dosimetry equipment are introduced. The physics of radiotherapy dose calculation is further explored.

MRTY2035 (18235) Clinical Education IIB  
Semester 1 - 7 credit points  
Pre-requisites Introductory Nuclear Medicine (MRTY1016), Clinical Education I (MRTY1013)

This unit provides a structured program of clinical experience which will direct the student to becoming competent in the basics of Nuclear Medicine practice. The professional subjects are closely linked to the necessary skill level achieved in this unit of study.

Year 3

BEHS3073 (103C6) Behavioural Science IIIA  
Semester 1 - 5 credit points  
Pre-requisite Behavioural Science IIA (BEHS2103), Behavioural Science IIB (BEHS2104)

There are two units in this unit. 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.

BEHS3074 (103C7) Behavioural Science NIB  
Semester 2 - 3 credit points  
Pre-requisite Behavioural Science IIA (BEHS2103), Behavioural Science IIB (BEHS2104)

There are two units in this unit. The unit Health, Medicine and Society provides an analysis of the institutional aspects of medical and health care while the second unit provides an introduction to Social Psychology.

MRTY3037 (18337) Image Processing A  
Semester 1 - 2 credit points  
Pre-requisite Introduction to Medical Radiations (MRTY1014), Introductory Radiography (MRTY1015), or Introductory Nuclear Medicine (MRTY1016), or Introductory Radiation Therapy (MRTY1017)

This unit provides a study of the processes of the human visual system, image digitisation, contrast enhancement, spatial-domain and frequency-domain processing.

MRTY3038 (18338) Image Processing B  
Semester 2 - 1 credit points  
Pre-requisite Introduction to Medical Radiations (MRTY1014), Introductory Radiography (MRTY1015), or Introductory Nuclear Medicine (MRTY1016), or Introductory Radiation Therapy (MRTY1017)

This unit provides a study of pattern recognition, binary image processing, measurement, image compression, current medical imaging applications and research.

MRTY3020 (18320) Professional Studies  
Semester 1 - 2 credit points  
Pre-requisite Clinical Education IIA (MRTY2034), OR Clinical Education IIB (MRTY2035), OR Clinical Education IIC (MRTY2036)

This unit 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 sciences and the impending role of the graduate as a contributing member of the profession.
MRTY3039 (18339) Sonography A  
**Semester 1 - 2 credit points**  
This unit provides an introduction to the clinical applications and practice of diagnostic ultrasound.

MRTY3040 (18340) Sonography B  
**Semester 2 - 2 credit points**  
This unit extends the areas of clinical applications and practice of diagnostic ultrasound.

MRTY3041 (18341) Imaging IIA  
**Semester 1 - 4 credit points**  
**Pre-requisites:** Radiation Biology (MRTY2038), Radiation Protection (MRTY2037), Imaging IA (MRTY2041), Imaging IB (MRTY2042), Radiography IA (MRTY2043), Radiography IB (MRTY2044)  
**Co-requisite:** Image Processing A (MRTY3037)  
This unit complements Imaging I and concentrates upon ensuring a study of a range of radiographic equipment including that designed for special procedures.

MRTY3042 (18342) Imaging MB  
**Semester 2 - 2 credit points**  
**Pre-requisites:** Radiation Biology (MRTY2038), Radiation Protection (MRTY2037), Imaging IA (MRTY2041), Imaging IB (MRTY2042), Radiography IA (MRTY2043), Radiography IB (MRTY2044)  
**Co-requisite:** Image Processing B (MRTY3038)  
This unit concentrates upon ensuring a study of the range of digital radiographic equipment. Quality assurance and radiation protection principles and practice are expanded further.

MRTY3043 (18343) Radiography IIA  
**Semester 1 - 4 credit points**  
**Pre-requisites:** Radiography IA (MRTY2043), Radiography IB (MRTY2044), Clinical Education IIA (MRTY2034)  
**Co-requisite:** Clinical Education III A (MRTY3035)  
This unit builds upon the unit Radiography which has discussed the radiographic techniques for general skeletal radiography. This unit develops higher order critical thinking and radiographic skills in the areas of multiple trauma, paediatric radiography, gastro-intestinal and genito-urinary contrast examinations. The unit also provides the student with a "problem solving" approach to technically difficult radiographic examinations. Case scenarios include a variety of patient injuries, pathological diseases and physical disabilities.

MRTY3044 (18344) Radiography NB  
**Semester 2 - 2 credit points**  
**Pre-requisites:** Radiography IA (MRTY2043), Radiography IB (MRTY2044), Clinical Education IIA (MRTY2034)  
**Co-requisite:** Clinical Education III A (MRTY3035)  
This unit provides students with knowledge of specialised radiographic imaging modalities. These include angiography, CT, MRI and other smaller areas of contrast examinations. Students will examine aspects such as patient and contrast media preparation, technical considerations and routine protocols for the specialised modalities. The appropriateness of a particular imaging modality will be discussed with respect to the diagnosis of injury or presence and extent of a disease process.

MRTY3045 (18345) Instrumentation IIA  
**Semester 1 - 4 credit points**  
**Pre-requisite:** Instrumentation 1A (MRTY2047), Instrumentation 1B (MRTY2048)  
**Co-requisites:** Instrumentation IIA (MRTY3045), Clinical Education IIIB (MRTY3026)  
This unit 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.

MRTY3046 (18346) Instrumentation IIB  
**Semester 2 - 3 credit points**  
**Pre-requisite:** Instrumentation 1A (MRTY2047), Instrumentation 1B (MRTY2048)  
This unit provides the student with some advanced knowledge of nuclear medicine instrumentation including PET (Positron Emission Tomography) and Cyclotron.

MRTY3047 (18347) Nuclear Medicine IIA  
**Semester 1 - 6 credit points**  
**Pre-requisites:** Nuclear Medicine IB (MRTY2050), Clinical Education IIB (MRTY2035), Radiopharmacy B (MRTY2052)  
**Co-requisites:** Instrumentation IIA (MRTY3045), Clinical Education IIB (MRTY3026)  
This unit examines in detail the applications of Nuclear Medicine to the systems of the body including the study of the associated physiological pathways.
MRTY3048 (18348) Nuclear Medicine IIB
Semester 2 - 4 credit points
Pre-requisites Nuclear Medicine IA (MRTY3047), Clinical Education IIB (MRTY2035)
Co-requisites Instrumentation IIB (MRTY3046), Clinical Education IIB (MRTY3026)
This unit examines in detail the applications of Nuclear Medicine to the systems of the body including the study of the associated physiological pathways.

MRTY3026 (18326) Clinical Education IIB
Semester 1 - 4 credit points
Pre-requisite Nuclear Medicine 1B (MRTY2050), Clinical Education IIB (MRTY2035)
This unit provides a structured program of clinical experience which will direct the student to the wider practice of Nuclear Medicine. Content in the professional subjects is closely linked to the student's practice. Students will need to demonstrate an increased level of independence and critical analysis by this stage of the program.

Semester 2 - 10 credit points
Pre-requisite Nuclear Medicine IIA (MRTY3047), Clinical Education IIB Semester 1
This unit provides a structured program of clinical experience which will direct the student to integrating all components of the theoretical professional subjects and putting these into clinical practice. Students will have completed all components of proficiency in Nuclear Medicine practice.

MRTY3049 (18349) Radiation Therapy IIA
Semester 1 - 5 credit points
Pre-requisites Radiation Therapy 1A (MRTY2053), Radiation Physics IIB (MRTY2056)
Corequisites Clinical Education IIIC (MRTY3030)
This is the fourth of five units which cover the principles and applications of applied radiation therapy. Advanced routine applications of radiation therapy are examined, including the incorporation of cross-axis imaging modalities into planning. Problem-based learning methods will be used in this unit.

MRTY3050 (18350) Radiation Therapy IIB
Semester 2 - 3 credit points
Pre-requisites Radiation Therapy 1A (MRTY2053)
Co-requisites Clinical Education IIIC (MRTY3030)
This is the last of five units which cover the principles and applications of applied radiation therapy. This unit extends the study of the applications of radiation therapy into the rarer techniques and provides an introduction to the less common modalities of brachytherapy, stereotactic radiosurgery, interoperative radiotherapy and others.

MRTY3051 (18351) Radiotherapy Physics IIA
Semester 1 - 2 credit points
Pre-requisites Radiotherapy Physics 1B (MRTY2054)
This is the third of four units which cover the physical principles of the use of ionising radiation in radiation therapy. This unit introduces the student to the physics behind a variety of innovations in radiotherapy including multileaf collimation, 3D treatment planning and algorithms.

MRTY3052 (18352) Radiotherapy Physics IIB
Semester 2 - 2 credit points
Pre-requisites Radiotherapy Physics IIA (MRTY3051)
This is the last of four units which cover the physical principles of the use of ionising radiation in radiation therapy. This unit explores the uses of less common treatment modalities in radiotherapy. Basic brachytherapy physics is also addressed.

MRTY3053 (18353) Principles of Oncology A
Semester 1 - 2 credit points
Pre-requisites Tumour Pathology B (BIOS2081)
This unit is the first of two which examine 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.

MRTY3054 (18354) Principles of Oncology B
Semester 2 - 2 credit points
Pre-requisites Tumour Pathology B (BIOS2081)
This unit is the second of two which examine 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.

MRTY3030 (18330) Clinical Education IIIC
Semester 1 - 6 credit points
Semester 2 - 11 credit points
Pre-requisite Clinical Education IIC (MRTY2036)
Co-requisite Radiation Therapy IIA (MRTY3049)
This unit provides the student with a structured program of clinical experience to apply the knowledge and skills obtained in Radiation Therapy IIA & IIB.

MRTY3034 (18334) Radiation Therapy Project
Semester 1 - 1 credit point
Semester 2 - 1 credit point
Pre-requisites Radiation Therapy 1A (MRTY2053), Clinical Education IIC (MRTY2034)
Co-requisite Behavioural Science IIIA (BEHS3073)
This unit 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.
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 units in the Pass Program. In addition, students in the Honours Program complete the following:

Year 4

MRTY4020 (18429) Research in Medical Radiations IA
Semester 1 - 1 credit point
This unit 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.

MRTY4021 (18430) Research in Medical Radiations IB
Semester 2 - 2 credit points
This unit 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.

BEHS4032 (10475) Research Methods and Statistics
Semester 1 - 3 credit points
This unit is designed to provide students with an understanding of basic research and statistical methods and practical applications relevant to clinical practice. The focus is on statistical reasoning and extracting meaning from data. Extensive use is made of modern computer software to achieve this. The broad areas discussed are: methods for data exploration and description, strategies for data collection, statistical inference and estimation. Statistical description methods comprise numerical and graphical methods for one and two variable models including control charts and regression models. Rationales for sampling, observational and experimental designs for data production are discussed. Inferential methods including estimating with confidence and tests of significance are introduced for one and two samples.

MRTY4017 (18426) Honours Workshop A
Semester 1 - 2 credit points
This workshop is designed to assist Honours students with the development of their individual research projects. Students are encouraged to develop an understanding of the nature of the knowledge and methodology they are using in their research through discussion of articles.

MRTY4018 (18427) Honours Workshop B
Semester 2 - 2 credit points
This workshop continues the development of individual Honours Theses through an emphasis on written presentation skills.

MRTY4006 (18413) Honours Thesis
Semester 2 - 34 credit points
This unit 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 units, 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.

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

MRTY4011 (18419) Research in Medical Radiations II
Semester 2 • 1 credit point
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 - 3 credit points
Students select one of the following units (subject to sufficient student numbers) in consultation with their supervisors:

COMH4025 (084A5) Epidemiological Research
In this unit 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.

COMH4026 (084A6) Evaluation Research
In this unit 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.

COMH4027 (084A7) History and Philosophy of Scientific Methodology
This unit 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.
BEHS4037 (10489) Intermediate Statistics  
*Pre-requisite Research Methods I and II, or equivalent*

In this unit, 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.

BEHS4038 (10490) Multivariate Statistics  
*Pre-requisite Intermediate Statistics (10503), or equivalent*

This unit 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.

### Table 12.2 Bachelor of Applied Science (Medical Radiation Sciences)

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#### Pass Degree

**Year 1 (to be first offered in 1999)**

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**Stage Total** | 48 | 24 | 24

#### Notes

- Clin Ed 1A: Diag: 1 week block mid year + 2 weeks Dec, + 1 hr/wk on campus Intro to Medical Terminology and Intro to Medical Ethics in Semester 2.
- Clin Ed 1B: Nuclear Medicine: 2 week block mid year and 2 weeks December.
- Clin Ed 1C: Radiation Therapy: 1 week block mid year and 2 weeks December.
### Year 2 (to be first offered in 2000)

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**Notes**

@ Clinical centre - wk 1-8
Campus weeks - wk 9-10
Clinical centres - wks 11-14

### Year 3 (to be first offered in 2001)

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**Nuclear Medicine**
- MRTY3069 (18369) Nuclear Medicine Physics 3 3 -
- MRTY3070 (18370) Nuclear Medicine 3A 6 -
- MRTY3064 (18364) Sonography A 3 -
- MRTY3071 (18371) Clinical Education 3B 3 -
- MRTY3072 (18372) Nuclear Medicine 3B 6 -
- MRTY3073 (18373) Clinical Education 4B - 3
  Elective Studies* - 6

**Radiation Therapy**
- BIOS3050 (11343) Oncology B 3 -
- MRTY3074 (18374) Radiation Therapy Physics 3 3 -
- MRTY3075 (18375) Radiation Therapy 3A 6 -
- MRTY3076 (18376) Clinical Education 3C 3 -
- MRTY3077 (18377) Radiation Therapy 3B - 6
- MRTY3078 (18378) Seminars in Radiation Therapy - 3
- MRTY3079 (18379) Clinical Education 4C - 3
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| Stage Total | 48 | 24 | 24 |

### Honours Program

*Honours Research Seminar* 4 -

**Year 4 (to be first offered 2002)**

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| Stage Total | 48 | 24 | 24 |

### Notes

# Radiography electives - students choose 2 of the following (3 credit points each):
- Seminars in Diagnostic Radiography
- Management Skills in the Health Professions
- Interventional Techniques
- Sports Injury Imaging
- Paediatrics
- Operative Radiography
- Functional Brain Imaging

* Elective studies - students choose from the following pool of electives from across the faculty:
  - Radiography: Choice of 1 out of the 4 areas
  - Nuclear Medicine: Choice of 2 out of the 4 areas
  - Radiation Therapy: Choice of 1 of the 4 areas

1. Physics Electives:
   - Medical Radiation Sciences Physics Elective
   - Clinical Physics

2. Sonography B

3. Behavioural Science Electives
   - Alternative Medicine
   - Community, the Internet and Health Information
   - Death and Dying
   - Gender and Health/International Health
   - Media and Health/Occupational Health
   - Social Theory and Medical Sociology
   - Sociology of Ageing
   - Sociology of Community and Family
   - Sociology of Sport
   - Health Psychology
   - Psychological Function
4. Biomedical Science Electives

Embryology

Neurology

Bachelor of Applied Science (Medical Radiation Sciences)

This course has three main streams: Diagnostic Radiography, Nuclear Medicine Technology and Radiation Therapy.

Admission Requirements

There are no specific pre-requisites for admission to the Bachelor of Applied Science (Medical Radiation Sciences) course. The general admission requirements in Chapter 3 apply. However, prospective students would benefit from undertaking 2 unit Mathematics, and either two of 2 unit Physics, 2 unit Chemistry, and 2 unit Biology or 3/4 unit Science at HSC level. Good oral English communication skills are assumed as a large component of the course involves dealing directly with people in clinical settings. Advanced standing in some units will be given on the basis of successfully passing a challenge exam.

Course Outline

The course outline with its three streams and Honours Program is presented in Table 12.2.

Unit Descriptions

BIOS1119 (111C6) Introductory Radiation Physics 1A
Semester 1 - 6 credit points
Pre-requisites: Nil
Co-requisites: Nil
This unit of study examines the structure of matter together with the types of ionising radiation, their interactions with matter, electricity, magnetism, electrical safety, vibrations and waves and heat. In addition, students are provided with a brief review of the necessary fundamental physics and mathematics required for this unit and the subsequent unit, Radiation Physics 1B.

BIOS1122 (111C8) Biomedical Sciences 1A
Semester 1-4 Credit Points
Pre-requisites: Nil
Co-requisites: Nil
This unit of study will provide a general introduction to the study of human anatomy, physiology and pathophysiology. A detailed study of the musculoskeletal, cardiovascular and lymphatic systems will be undertaken. There will be special attention to the application of this material to the branches of medical radiation sciences. This unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1084 (11193) Introductory Human Biology
Semester 1 - 4 Credit Points
Pre-requisites: Nil
Co-requisites: Nil
This unit of study will present aspects of basic chemistry, biochemistry and physiology which underlie the normal function of the human body. The specific topics considered include mechanisms of homeostasis, general cellular structure and function, introductory chemistry, chemistry of biologically important molecules, blood characteristics and functions, cell metabolism, protein synthesis, cell replication and introductory genetics.

BEHS1129(101E7) Research Methods 1: Design
Semester 1 - 3 Credit Points
Pre-requisites: Nil
Co-requisites: Nil
This unit of study introduces students to the research process and focuses on developing informed consumers of research. The unit of study briefly considers the philosophy of science and covers research ethics, qualitative and quantitative research, the development of research questions and the specification of hypotheses and variables, conceptualisation and operationalization, 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.

MRTY1023 (18125) Nuclear Medicine 1A
Semester 1 - 4 credit points
Pre-requisites: Introductory Radiation Physics 1A (BIOS1119)
Co-requisites: Nil
This unit of study introduces the student to the study and practice of Nuclear Medicine. It aims to develop the student's understanding of the use of radiation, the underlying theory of Nuclear Medicine as well as the elementary applications for Nuclear Medicine studies.

MRTY1019 (18121) Radiographic Practice 1A
Semester 1 - 4 credit points
Pre-requisites: Introductory Radiation Physics 1A (BIOS1119)
Co-requisites: Nil
This unit of study will introduce the student to the basic principles of photography and image production in Radiography. The anatomical region of the Chest will be used as an elementary application of radiographic techniques.
MRTY1027 (18129) Radiation Therapy 1A
Semester 1 - 4 credit points
Pre-requisites: Nil
Co-requisites: Introductory Radiation Physics 1A (BIOS1119)
In this unit of study the student will be introduced to the department of radiation oncology and therapeutically the radiation therapist in the care and treatment of patients. At the completion of the unit of study, students will be able to undertake clinical education experience with background knowledge of the field and the ability to work safely as part of the radiation therapy team.

MRTY1018 (18120) Introduction to Clinical Education
Semester 1 - 3 credit points
Pre-requisites: Nil
Co-requisites Radiographic Practice 1A (MRTY1019) or Radiation Therapy 1A/MRTY1027 or Nuclear Medicine 1A (MRTY1023)
This unit of study will introduce the student to the generic aspects of Clinical Education. It includes three modules of one credit point each:

i. Introduction to Medical Radiation Sciences modalities
ii. Introduction to communication skills
iii. Basic patient care

BIOS1120 (111C7) Introductory Radiation Physics 1B
Semester 2 - 3 credit points
Pre-requisites: Nil
Co-requisites Nil
This unit of study provides an introduction to basic electronics, ultrasound fundamentals, optics, devices for the detection of ionising radiation, dosimetry of ionising radiation.

MRTY1021 (18123) Radiographic Physics 1
Semester 2-3 credit points
Pre-requisites: Introductory Radiation Physics 1A (BIOS 1119)
Co-requisites: Nil
This unit of study introduces the student to the construction, design, operation, associated radiation protection and quality control of general radiographic equipment.

MRTY1025 (18127) Nuclear Medicine Physics 1
Semester 2 - 3 credit points
Pre-requisites: Introductory Radiation Physics 1A (BIOS 1119)
Co-requisites: Nil
This unit of study examines instrumentation principles and design in nuclear medicine. It includes methods and measurement of radiation detection, instrumentation componentry and collimation techniques. Applications of the componentry to particular radiation detectors is covered, together with the display of information via recording devices, analogue and digital displays, nuclear medicine computer systems and the quality control of instrumentation.

MRTY1029 (18131) Radiation Therapy Physics 1
Semester 2 - 3 credit points
Pre-requisites: Introductory Radiation Physics 1A (BIOS1119)
Co-requisites: Nil
This unit of study will cover the physical principles of the appropriate use of ionising radiation in radiation therapy. A variety of beam generating devices are covered, paying particular attention to their uses in modern radiation therapy. The physical basis of beam calibration and manual dose calculation for fixed and isocentric radiotherapy are introduced.

BIOS 1123 (111C9) Biomedical Sciences 1B
Semester 2 - 4 credit points
Pre-requisites: Introductory Human Biology (BIOS 1084)
Co-requisites: Biomedical Sciences IA (BIOS 1122)
This unit of study will examine inflammation, immunology and immunological disorders, infection control, genetic disorders, hematologic disorders, trauma, ageing, pharmacology and the physiology and pathophysiology of the respiratory and digestive systems relevant to the study of medical radiation science. This unit includes laboratory classes in which human cadavers are studied. Attendance at such classes is required.

MRTY1024 (18126) Nuclear Medicine IB
Semester 2 - 5 credit points
Pre-requisites: Nuclear Medicine IA (MRTY1023)
Co-requisites: Clinical Education 1B(MRTY1026)
This unit of study examines the application of radionuclides and imaging procedures to the investigation of the respiratory, skeletal and gastrointestinal systems of the body. It also provides a study of physiological pathways which are fundamental to an understanding of design and use of radiopharmaceuticals.

MRTY1020 (18122) Radiographic Practice 1B
Semester 2 - 5 credit points
Pre-requisites: Radiographic Practice 1A (MRTY1019)
Co-requisites: Radiographic Physics 1 (MRTY1021)
Biomedical Sciences IB (BIOS1123)
The aim of this unit of study is to provide students with the knowledge and skills to perform radiographic examinations of chest, upper and lower limbs. The unit builds on technical and theoretical work from Radiographic Practice IA. Introductory radiographic anatomy and pathology is included in the unit.

MRTY1028 (18130) Radiation Therapy 1B
Semester 2 - 5 credit points
Pre-requisites: Radiation Therapy IA (MRTY1027)
Co-requisites: Radiation Therapy Physics 1 (MRTY1029)
This unit of study expands the knowledge gained in Radiation Therapy IA, and concentrates on the acquisition of the knowledge and skills to enable the student to satisfactorily plan, calculate and treat simple palliative techniques on the linear accelerator and routine superficial therapy techniques. The role of the radiation therapist as a supporter and educator of the patient will also be addressed.

BEHS1150 (101F4) Introduction to Psychology
Semester 2 - 3 credit points
Pre-requisites: Nil
Co-requisites: Nil
This unit of study provides students with an introduction to areas of psychology relevant to health professionals. Major topics include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.
BEHS1151 (101FS) Introduction to Health Sociology  
Semester 2 - 3 credit points  
Pre-requisites: Nil  
Co-requisites: Nil  
This unit of study provides an understanding of basic sociological concepts and theories and their application in analysing health in Australia. It develops the student's ability to critically examine and evaluate aspects of society which are often taken for granted in order to extend understanding of the social structures, institutions and processes relevant to health in Australia. The unit also provides opportunities for enhancing linguistic, writing and analytical skills by introducing some of the sociological methods of collecting, analysing and reporting health data.

MRTY1022 (18124) Clinical Education 1A  
Semester 2 - 3 credit points  
Pre-requisites: Introduction to Clinical Education (MRTY1018)  
Radiographic Practice IA (MRTY1019)  
CPR Certificate  
Co-requisites: Radiographic Practice IB (MRTY1020)  
This unit of study is the first of four units of study in clinical education. It consists of 4 weeks of clinical instruction which introduces the student to the role of the diagnostic radiographer in medical imaging. Emphasis is placed on practice in patient care principles, interpersonal communication skills; and practice in the radiographic examinations of the chest and upper and lower limb. Basic medical terminology and an introduction to medical ethics and legal issues is also included within this unit of study.

MRTY1026 (18128) Clinical Education 1B  
Semester 2 - 3 credit points  
Pre-requisites: Introduction to Clinical Education (MRTY1018)  
Nuclear Medicine 1A (MRTY1023)  
CPR Certificate  
Co-requisites: Nil  
To introduce students to the clinical environment of a Nuclear Medicine department and to the role of the Nuclear Medicine Technologist. This unit provides the student with a structured program of clinical experience.

MRTY1030 (18132) Clinical Education 1C  
Semester 2 - 3 credit points  
Pre-requisites: Introduction to Clinical Education (MRTY1018)  
CPR Certificate  
Co-requisites: Nil  
This is the first of four units of study in which students are placed in radiation oncology centres, primarily in the greater Sydney metropolitan region. The aim of this unit is to provide students with an introduction to clinical radiation oncology.

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 4 June, 1999. St John Ambulance courses on CPR are available through the metropolitan and country areas. Life-saving certificates of CPR competency will also be accepted.

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

Diagnostic Radiography
Clinical Education in year 2 (14 weeks) and year 3 (11 weeks) provide an opportunity for the student to integrate the knowledge acquired in the professional units with the practical skills attained in the workplace. The introduction of clinical procedures in Clinical Education IIA and IIIA is closely synchronised with the acquisition of the related theory in the professional technique units. 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 students will be able to perform simple routine skeletal examinations.

By the end of year 3 students 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. Students will be required to demonstrate their clinical competency in specific contrast procedures and all skeletal examinations. Students will develop the critical thinking and clinical skills that are necessary when imaging trauma patients, paediatric patients and aged patients with debilitating disease processes and 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 students demonstrate an ability to empathise with the patient and understand 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 students must demonstrate the clinical competence required to perform as a beginning practitioner in diagnostic radiography requiring minimal supervision.
Nuclear Medicine

Clinical Education in year 2 (13 weeks) and year 3 (11 weeks) provides an opportunity for the student to integrate the knowledge acquired in the professional units with the practical skills attained in the workplace. The introduction of new procedures in Clinical Education IIB and KEB 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, students 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, students will be able to perform complex routine clinical procedures including computer acquisition and analysis, reconstitution and dispensing of radiopharmaceuticals, and quality control in all areas, including planar instrumentation, single photon emission computerised tomography and radiopharmacy. Students 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 students must demonstrate the clinical competence required to perform as a 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 students to integrate the knowledge acquired in the professional units with the practical skills attained in the workplace. The introduction of new procedures in Clinical Education EC and Die is closely synchronised with the acquisition of the related theory in Radiation Therapy 2 and 3A 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, students 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, students will be able to perform more complex routine treatment, simulation and planning procedures for a range of electromagnetic and particulate radiations. In addition, students will have observed and assisted with, but not demonstrated competence in performing various non-routine procedures such as stereotactic radiosurgery, intraoperative 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 students must demonstrate the clinical competence required to perform as a radiation therapist with minimum supervision.

1999 Clinical Education Dates

### Bachelor of Applied Science (Medical Radiation Technology)

#### Diagnostic Radiography

**Year 1**
- 28 June - 2 July OR 26 July - 30 July (1 week)
- 6 December - 17 December (2 weeks)

**Year 2**
- 8 February - 26 February (3 weeks)
- 12 April - 7 May (4 weeks)
- 28 June - 16 July (3 weeks)
- 6 September - 1 October (4 weeks)

**Year 3**
- 11 January - 5 February (4 weeks)
- 20 July - 4 September (7 weeks)

#### Nuclear Medicine

**Year 1**
- 28 June - 9 July or 26 July - 6 August (2 weeks total)
- 6 December - 17 December (2 weeks)

**Year 2**
- 15 February - 26 February (2 weeks)
- 12 April - 7 May (4 weeks)
- 28 June - 23 July (4 weeks)
- 6 September - 1 October (4 weeks)

**Year 3**
- 11 January - 12 February (5 weeks)
- 26 July - 3 September (6 weeks)

#### Radiation Therapy

**Year 1**
- 28 June - 2 July/26 July - 30 July (1 week)
- 7 December - 18 December (2 weeks)

**Year 2**
- 22 February - 26 February (1 week)
- 1 March - 2 April (1 day/week)
- 12 April - 7 May (4 weeks)
- 28 June - 16 July (3 weeks)
- 6 September - 1 October (4 weeks)

**Year 3**
- 25 January - 19 February (4 weeks)
- 19 July - 3 September (7 weeks)

#### Uniforms

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

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

**Male**
- A white "Ben Casey" jacket and navy trousers. Closed black shoes. A cardigan, jumper or sleeveless woolen vest either in white or navy.
The School of Occupation and Leisure Sciences currently offers three undergraduate degree programs: Bachelor of Applied Science (Occupational Therapy), Bachelor of Applied Science (Leisure and Health) and Bachelor of Health Science (Occupational Therapy). The School also provides a number of postgraduate programs.

The School of Occupation and Leisure Sciences was known as the School of Occupational Therapy until 1998 and was a foundation school of Cumberland College of Health Sciences when it was established in 1973. Prior to that year, the education of occupational therapists in N.S.W. was the responsibility of the N.S.W. Association of Occupational Therapists. The first training program commenced in 1941.

One of the first undertakings of the School 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. The school was instrumental in setting up a Diploma in Occupational Therapy in Singapore in 1991 and in 1996 the Bachelor of Health Science (Occupational Therapy) was developed to enable diplomates to convert to a degree.

In 1985, the School introduced the Associate Diploma in Diversional Therapy, the first formal education for diversional therapists in Australia. Prior to 1985, the Australian Red Cross and the Diversional Therapy Association provided training and education.

In recognition of the need for a higher level of education for diversional therapists and other leisure service practitioners, the level of the course was raised to the Bachelor of Applied Science (Diversional Therapy) in 1995. To reflect the diversity of graduate opportunities, the name Bachelor of Applied Science (Diversional Therapy) was changed to Bachelor of Applied Science (Leisure and Health) in 1997. An Honours program was also introduced at this time. A course offered through a flexible delivery mode was introduced in 1999.

The School has developed a range of postgraduate study options. Programs include PhD level studies, a research Master's degree and an articulated coursework program which culminates in a Master's degree. The graduate program includes Graduate Certificates which focus on specialty areas of practice in occupational therapy.

The School introduced the two year Master of Occupational Therapy in 1998. This program is an alternative professional pathway for people holding degrees in other areas of study and an alternative to the undergraduate occupational therapy degree. This professional Master's degree is the first of its kind in the southern hemisphere.

Further information about the School's programs may be obtained from the School on 9351 9386.

### Table 13.1 Bachelor of Applied Science (Leisure and Health)

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<td>(101C2) Introduction to Health Sociology</td>
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<td>(15159) Programming for Children and Adolescents</td>
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<td>(15160) Professional Practice I: Communication Skills</td>
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| Stage Total | 48 | 24 | 24 |


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| Stage Total | 48 | 24 | 24 |

Note

Includes: 105 hours intersemester and a 35 hour camp

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| Stage Total | 48 | 24 | 24 |

Table 13.1.1 Bachelor of Applied Science (Leisure and Health) Honours

Course Code 1533 Full-time, 4 years, Honours

Years 1 and 2 as -per Pass Program (Table 13.1)

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| Stage Total | 48 | 22 | 26 |

Year 4

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| Stage Total | 48 | 24 | 24 |

Notes

* Honours students in consultation with their supervisor, elect to take the Research Elective in either year 3 or year 4.

School of Occupation and Leisure Sciences
### Table 13.1.2 Bachelor of Applied Science (Leisure and Health) Off-Campus Mode

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Mode of Offer</th>
<th>Edition</th>
<th>Year</th>
<th>Semester 1</th>
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</table>
Bachelor of Applied Science  
(Leisure and Health)

Access to pleasurable leisure experiences is the right of everyone in society. Leisure experiences have been proven to add to a person's life satisfaction and to their personal growth. This degree program prepares graduates to work with individuals and groups of people who require support to be able to participate in leisure and recreation activities. Graduates work in a variety of health and community settings under titles such as program co-ordinator, diversional therapist, community recreation co-ordinator, social and health educator and peer support worker. Clients range from children to older adults coming from a wide range of ethnic and cultural backgrounds. Leisure and health professionals work in a variety of settings such as: hospitals, rehabilitation units, after school and vocation care centres, psychiatric units, outdoor recreation programs, aged care facilities, palliative care units, day centres, remand centres and goals and organisations for people with disabilities.

Thirteen weeks of Professional Practice is spread over the three years of the program. Professional Practice is divided into four blocks and students are encouraged to select a program that gives them experience with working with different client groups in a range of centres. A typical program of placement could include experiences with aged people in a hostel, young people with disabilities, program co-ordination in a government department, a camp for children arthritis and working with people with a mental illness. At least one placement must be with older people and one with people with a disability.

Admission Requirements

(Full-time Mode)

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

<table>
<thead>
<tr>
<th>Year 6</th>
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<tbody>
<tr>
<td>BEHS3066 (103B7X) Psychology II</td>
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<tr>
<td>BIOS3042 (11397X) Biological Sciences IIIA</td>
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<td>OCCP3045 (15399X) Professional Practice III</td>
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<td>OCCP3052 (15395X) Research Project in Leisure and Health</td>
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<td>BIOS3043 (11398X) Biological Sciences mB</td>
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Stage Total 23 11 12

Note

* Students will be given advanced standing in these subjects in recognition of their workplace experience.

(Off-campus/Flexible Mode)

Admission to this course is available to those applicants who are of mature age and who have at least one year work experience in a related field. Applications are required to fill in an application form available from Cumberland Campus Student Administration Services.

Course Outline

The course outline for the Bachelor of Applied Science (Leisure and Health) is presented in Table 13.1,13.1.1 and 13.1.2.

Unit Descriptions

Year 1

<table>
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<tr>
<th>Unit</th>
<th>Title</th>
<th>Semester</th>
<th>Credit Points</th>
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<tr>
<td>BEHS1105 (101C2/101C2X)</td>
<td>Introduction to Health Sociology</td>
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</table>

This unit of study provides an understanding of basic sociological concepts and theories and their application in analysing health in Australia; and develops the ability to critically examine and evaluate aspects of society which are often taken for granted in order to extend the students' understanding of the social structures, institutions and processes relevant to health in Australia. The unit also provides opportunities for enhancing linguistic, writing, and analytical skills by introducing some of the sociological methods of collecting, analysing and reporting health data.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Title</th>
<th>Semester</th>
<th>Credit Points</th>
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<tr>
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<td>Psychology I</td>
<td>2</td>
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</table>

This unit of study provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.
BEHS1107 (101C4/101C4X) Sociology of Community and Family

Semester 2 - 3 credit points
Pre-requisite Introduction to Health Sociology (101C2)

This unit of study 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.

BIOS1106 (111B5/111B5X) Biological Sciences IA and
BIOS1107 (111B6/111B6X) Biological Sciences IB

Semester 1 - 4 credit points
Semester 2 - 4 credit points

These units of study are 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.

OCCP1053 (15154/15154X) Australian Healthcare Services

Semester 1 - 4 credit points

This unit of study provides students with an overview of the function and structure of the healthcare system in Australia. Topics studied include: healthcare issues at Commonwealth, State and Local government levels; structures and roles of key service groups; funding arrangements; current trends in the provision of healthcare services; healthcare insurance; and healthcare facilities.

OCCP1054 (15155/15155X) Leisure in Australia

Semester 1 - 4 credit points

This unit of study provides an historical and sociological understanding of the evolution of leisure in Australia. Students will consider the influences of Aboriginal and European culture on contemporary Australian culture and leisure and how politics, gender, ethnicity and morality influence the way leisure is experienced today. The unit introduces the principles involved in understanding the various concepts, theories and disciplinary perspectives involved in the study of leisure and more specific principles involved in the study of leisure and health.

OCCP1055 (15156/15156X) Introduction to Leisure and Health

Semester 1 - 4 credit points

This unit of study introduces students to models of practice within leisure service provision. Students will gain the knowledge and skills required to carry out individual assessment, to develop personalised leisure plans and to develop appropriate documentation. This will include client assessment, activity analysis, and activity modification. Application of differing models of practice are then applied to specific client groups with cardio-vascular, sensory and low energy disorders.

OCCP1056 (15157/15157X) Management and Leadership

Semester 2 - 4 credit points

This unit focuses on specific skills related to programme management and leadership skills. Students are provided with opportunities to develop specific skills in event and programme management, volunteer management, total quality management and management of conflict and change within the workplace. Students will also learn skills related to effective leadership. They will examine their own leadership skills, learn how to match leadership styles with specific situations to gain maximum effectiveness from the group, and ways to achieve realisation of their goals through effective leadership of others. Documentation related to management of human and physical resources will form part of this subject.

OCCP1057 (15158/15158X) Creative Arts in Recreation

Semester 2 - 4 credit points

This is a very practical unit that introduces students to a variety of visual and performance art activities. Typically these activities include handcrafts, music, drama, dance, storytelling and improvisational games. Students develop and practice their leadership skills by planning and implementing a variety of activities which are taught to their peers as a large group. Issues of participation for individuals within specific groups are a focus of this subject.

OCCP1058 (15159/15159X) Programming for Children and Adolescents

Semester 2 - 4 credit points

This unit of study is designed to provide a knowledge of the leisure needs of children and adolescents so as to inform the design, development, implementation, and evaluation of recreation programmes. Adaptation of programmes for young children with special needs is examined and the benefits derived from professionals and families working cooperatively are explored. Observational and child study techniques will be used in designing programmes for children. Issues specifically related to adolescence and the varying needs of adolescents in a range of socio-cultural contexts will be studied.

OCCP1059 (15160/15160X) Professional Practice I: Communication Skills

Semester 1 - 3 credit points

This unit of study has two components: workshop session (16 hours) and a professional practice placement (35 hours). Workshop sessions are designed to enhance students' interpersonal communication skills and to develop their understanding of what is involved in working as a leisure professional. Areas of interpersonal communication will include verbal and non-verbal communication, active listening, presentation skills and assertiveness training. Students will explore the conceptual basis for working in the area of leisure and health and consider aspects such as role and responsibilities, areas of employment, and professional expectations. The one week intersemester professional practice placement will enable students to link theoretical knowledge with workplace skills.
This unit uses sociological perspectives to analyse key interpersonal and organizational aspects of therapy and work in health care settings. The focus will be on client-practitioner relationships and upon the legislative and institutional context of work and health care provision.

**BEHS2095 (102A7) Psychology of Disability I**
*Semester 1 - 4 credit points*

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.

**BEHS2096 (102A8) Psychology of Disability II**
*Semester 2 - 4 credit points*

This unit of study 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.

**BEHS2097 (102A9) Research Methods I**
*Semester 2 - 3 credit points*

This unit of study 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.

**BIOS2084 (112D9) Biological Sciences III A and**
**BIOS2085 (112E0) Biological Sciences IIIB**
*Semester 1 - 2 credit points*
*Semester 2 - 2 credit points*

These units of study are divided into four units. The first two will run in Semester 1. Unit 1 will cover pathophysiology and Unit 2 will be an introduction to the principles of cross infection and the operation of the immune system. Units 3 and 4 will run in Semester 2. Unit 3 will examine the biological processes and changes in the human organism over the lifespan and Unit 4 will be an introduction to basic pharmacological principles and actions of the major drug groups.

**OCCP2053 (152B1) Contemporary Issues in Health Care**
*Semester 2 - 3 credit points*

This unit of study will provide the student with an understanding of concepts which influence the delivery of leisure services and an opportunity to explore current issues within the healthcare system. Students will study relevant government acts, and standards and principles which influence the individual and the provision of leisure services. Legal and ethical issues applicable to professional practice will be examined.

**OCCP2058 (152B6) Social Psychology of Leisure**
*Semester 1 - 3 credit points*

This unit of study aims to broaden student's understanding of the behaviour of individuals within the social contexts of leisure and play. Students will examine and discuss various theories and the interpretation, application and relevance of the theories to the professional arena of leisure and health. Content areas examine elemental themes such as the relativity of freedom and intrinsic motivation. Consistent themes throughout the unit relate to the role of leisure in the construction of the self and the evolution of communication and the significance of play as a cultural phenomenon.

Factors that influence social interaction, personal and social roles, and self development are examined both theoretically and as issues which impact on leisure and health service delivery.

**OCCP2059 (152B7) Learning Processes and Leisure Education**
*Semester 1 - 3 credit points*

This unit of study explores the concepts of teaching and learning, examines the significance of motivation, feedback and reinforcement in the learning process, and considers ways this knowledge can be applied to recreation and leisure programmes. Students will be introduced to task analysis, planning and organising teaching sequences, and experiential learning approaches to learning and will be given the opportunity to practice specific teaching skills in simulated teaching - learning environment. Practical skills related to leisure education will be developed in this unit and students will explore a number of approaches available to assess clients' leisure needs and choices.
OCCP2060 (152B8) Diversional Therapy and the Ageing Population
Semester 1 - 3 credit points
This unit of study provides students with opportunities to develop insights into the life experiences of older people. Students will acquire the knowledge and skills necessary to work with people who are older and develop an understanding of current legislation and policy as it applies to aged care services. Students consider issues which may affect an older person’s participation in personalised leisure programmes.

OCCP2061 (152B9) Client Groups I
Semester 2 - 4 credit points
This unit of study will provide students with an understanding of the medical and social conditions affecting people with psychiatric disorders. Issues relevant to clinical and community contexts will be explored along with issues such as motivation and the creation of therapeutic environments which affect participation in leisure and recreation. Current legislation and policy related to mental health will be studied.

OCCP2062 (152C0) Program Design and Evaluation
Semester 2 - 4 credit points
In this unit of study students continue to develop the skills necessary for the facilitation of client involvement in leisure and recreation programmes. Emphasis is placed on issues related to the design of programmes and their effective implementation and evaluation. Participants will develop further knowledge about theories of learning, the process of learning and the role of leisure service providers, including diversional therapists, in this process.

OCCP2063 (152C1) Professional Practice II: Skill Development
Semester 1-6 credit points
Semester 2 - 4 credit points
This unit of study has three components: workshop sessions (31 hours); a three week intersemester placement (105 hours); and a weekend camp (35 hours). Workshop sessions are designed to link skills that students have learnt in the university context with the requirements of workplace practice (eg, lifting and transferring, first aid, sighted guiding). During their two placements, students will be encouraged to develop and implement recreation programmes, evaluate programmes and administrative procedures, and link academic study to professional practice.

Year 3

BEHS3064 (103B5) Research Methods II
Semester 1 - 2 credit points
Pre-requisite Research Methods I (102A9)
This unit of study 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, crosstabulations 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.

BEHS3065 (103B6) Sociology of the Aged and Ageing
Semester 2 - 3 credit points
Pre-requisite Introduction to Health Sociology (101C2)
This unit of study 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 ethnoscopic accommodation will be examined.

BEHS3066 (103B7) Psychology II
Semester 2 - 4 credit points
This of study 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 socialpsychology. These topics include occurrence in groups, attitudes and stereotyping, social interaction, conformity and leadership.

BIOS3042 (11397) Biological Sciences IIIA and BIOS2043 (11398) Biological Sciences IIIB
Semester 1 - 2 credit points
Semester 2 - 2 credit points
This unit of study 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.

OCCP3050 (15394) Professional Communication and Guidance
Semester 1 - 3 credit points
This unit 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 professional practice placement. They will learn to assess client’s needs and how to best meet these needs through the selection of appropriate strategies. The different helping skills models studied will allow students to develop flexible ways of relating to clients in a variety of context.

OCCP3051 (15394) Outdoor Recreation and Education
Semester 2 - 3 credit points
The focus in this unit will be on experiential learning as students become actively engaged in planning and programming outdoor events for specific groups. Risk management will form an integral part of this process as well as the methods and skills of debriefing.
OCCP3052 (15395) Research Project in Leisure and Health

Semester 2 - 4 credit points

This unit of study allows students to research 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 research paper which demonstrates an indepth investigation and integration of information from a variety of sources.

OCCP3053 (15396) Client Groups II

Semester 2 - 3 credit points

This unit of study will provide students with the opportunity to continue to develop and integrate expertise in supporting people participating in leisure programmes who experience a developmental disability or who require palliative care. Current legislation and policy related to these client groups will be examined. Issues relevant to clinical and community environments will be explored along with issues which affect participation in leisure and recreation.

OCCP3054 (15397) Professional Practice III: Mastery and Research

Semester 1 - 17 credit points

Students will have the opportunity to consolidate their learning through either a nine week placement at one centre during Semester I or two shorter placement at two different centres (eg, 5 weeks + 4 weeks). During their placement(s), students will integrate academic study with practical experience. This extended placement (315 hours), in conjunction with class review sessions (4 hours), will enable students to implement workplace-based research projects, to further develop their professional identity, and gain mastery of skills needed in the workplace.

Honours Program

General policies relating to the Honours Program are presented in Chapter 3. For information specific to the Leisure and Health Honours Program students are advised to contact the Honours Course Coordinator. Students commence the Honours Program in second semester of third year and complete an additional year in which a research project is undertaken and a thesis written. See table 13.1.1 for course.

Year 3

OCCP3029 (15378) Honours Research Seminar I

Semester 2 - 3 credit points

The 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 unit of study, each student will have prepared a written proposal for their research project and a student grant application and ethics application. The development of the research proposal is undertaken in collaboration with an academic supervisor.

BEHS1152 (101F6) Research Methods II: Data Analysis and Statistics

Semester 2 - 3 credit points

Pre-requisite Research Methods I: Design (BEHS1129) or Research Methods I (BEHS2097)

This unit of study introduces prospective health science practitioners to methods for exploring and understanding qualitative and quantitative data with an emphasis on interpretation and implications for outcomes and quality assurance. Methods for collecting, exploring, and presenting data are discussed from the perspective of the practitioner. Qualitative and quantitative methodologies, numerical summaries and graphical methods are covered for both one and two variables, comparisons and relationships. Emphasis is placed on explaining patterns in data, outliers, variability, possible causes and mechanisms which generate the data. Distributions are introduced with particular reference to their substantive generating mechanisms. In particular, normal curves, survival type curves and sampling distributions are examined with methods for investigating trends and departures from the overall pattern. The nexus between qualitative and quantitative methodologies is explored in the context of inference and scientific method. Inferential procedures for one and two variables, comparisons and relationships are used to illustrate this interdependence.

Year 4

Research Elective

Semester 1 or 2 - 3 credit points

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

OCCP4019 (15442) Honours Research Seminar II

Semester 1 & 2 - 4 credit points

The 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. This unit of study also provides a continuing opportunity for Honours students to discuss with relevant staff, concerns regarding data analysis and interpretation related to their individual projects.

OCCP4043 (154A8) Honours Thesis

Semester 1 - 19 credit points

Semester 2 - 22 credit points

This unit of study provides Honours students with the opportunity to undertake a supervised research project in the area of Leisure and Health. As part of this and the other Honours units of study, 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.
### Table 13.2 Bachelor of Applied Science (Occupational Therapy)

**Course**
**Code**  | **Mode of Offer**  | **Sem 1** | **Sem 2**
--- | --- | --- | ---
1519 | Full-time, 4 years |  |  |
1520 | Honours Program; Full-time, 4 years |  |  |

#### Year 2 (to be last offered in 1999)

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<td>Research Methods II: Data Analysis and Statistics</td>
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**Stage Total** | 48 | 24 | 24

#### Year 3 (to be last offered in 2000)

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**Stage Total** | 48 | 24 | 24

#### Year 4 (to be last offered in 2001)

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<td>BEHS4027</td>
<td>Social Psychology</td>
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**Stage Total** | 48 | 24 | 24

School of Occupation and Leisure Sciences
### Table 13.2.1 Bachelor of Applied Science (Occupational Therapy) Honours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
<th>Years 1 and 2 as per Pass Program (Table 13.2)</th>
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#### Year 3 (to be last offered in 2000)

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<th>Course Code</th>
<th>Mode of Offer</th>
<th>Years 1 and 2 as per Pass Program (Table 13.2)</th>
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</thead>
<tbody>
<tr>
<td>1520</td>
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<td>Direct and Open Choice</td>
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<table>
<thead>
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<th>Course Code</th>
<th>Mode of Offer</th>
<th>Years 1 and 2 as per Pass Program (Table 13.2)</th>
</tr>
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<td>1520</td>
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<td>Direct and Open Choice</td>
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#### Notes

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

### Table 13.2.2 Bachelor of Applied Science (Occupational Therapy)

<table>
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<th>Course Code</th>
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#### Year 1 (to be first offered in 1999)

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<td>Honours Program - Full-time - 4 years</td>
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### Notes

**Honours students, in consultation with their supervisor, elect to take one Research Elective only in either year 3 or year 4.**
Table 13.2.3  Bachelor of Applied Science (Occupational Therapy) Honours

Course Code  Mode of Offer
1543  Honours Program - Full-time - 4 years

Years 1 and 2 as per Pass Program (Table 13.2.2)

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<td>(10295) Research Methods I: Design</td>
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<td>BEHS2127</td>
<td>(102D9) Clients, Work and Organisations</td>
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<td>BEHS2128</td>
<td>(102E0) Social and Health Psychology</td>
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<td>(152A5) Professional Practice II</td>
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| Stage Total | 47 | 24 | 23 |

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<td>OCCP4051</td>
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| Stage Total | 48 | 24 | 24 |

Table 13.2.3  Bachelor of Applied Science (Occupational Therapy) Honours

Course Code  Mode of Offer
1543  Honours Program - Full-time - 4 years

Years 1 and 2 as per Pass Program (Table 13.2.2)

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
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<td>(15379) Human Occupations III</td>
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<td>(15380) Components of Occupational Performance III</td>
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<td>(15378) Honours Research Seminar I</td>
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<td>Electives*</td>
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| Stage Total | 48 | 24 | 24 |

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| Stage Total | 48 | 24 | 24 |

*  Students choose units of study to the value of 12 credit points during the first three years of the course. (The units of study are chosen from outside the Occupational Therapy Undergraduate Course).

** Honours students, in consultation with their supervisor, elect to take one Research Elective only in either year 3 or year 4.
Bachelor of Applied Science (Occupational Therapy)

Occupational Therapy involves a study of human occupations in the areas of self-care, productivity, leisure, and rest and the management of the adaptive behaviour required to perform occupational roles or activities. This study of human occupations entails analysis of activities or occupations and knowledge of the cognitive, sensory-motor, biomechanical, and psychosocial processes required to perform activities or occupations. The practice of occupational therapy applies knowledge of occupations and human processes to help people develop adaptive behaviours so that they may manage and interact with their environment.

Occupational therapists work with people whose occupational performance has been threatened or impaired by developmental deficits, the ageing process, physical injury or illness, and psychological or social disability. Occupational therapists work in health care and community settings, educational facilities, work environments and as private practitioners.

Admission Requirements
There are no specific admission requirements to the Bachelor of Applied Science (Occupational Therapy). 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 13.2 and 13.2.1.

Unit Descriptions

Year 1

BEHS1132 (101F0) Introduction to Health Sociology
Semester 1 - 3 credit points
This unit of study provides an understanding of basic sociological concepts and theories and their application in analysing health in Australia; and develops the ability to critically examine and evaluate aspects of society which are often taken for granted in order to extend the students understanding of the social structures, institutions and processes relevant to health in Australia. The unit also provides opportunities for enhancing linguistic, writing, and analytical skills by introducing some of the sociological methods of collecting, analysing and reporting health data.

BEHS1094 (101A9) Introductory Psychology
Semester 1 - 3 credit points
This unit of study provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.

BEHS1095 (101B1) Cognitive Functioning
Semester 2 - 2 credit points
This unit of study 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.

BIOS1069 (11177) Musculoskeletal Anatomy
Semester 1 - 2 credit points
Semester 2 - 2 credit points
This unit of study examines the structure and function of the musculoskeletal system. This unit includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the unit.

BIOS1114 (111DO) Introductory Biomedical Sciences
Semester 1 - 3 credit points
This unit of study will present aspects of basic chemistry, biology, biochemistry, physiology and introductory neuroscience which underlie the normal function of the human body. The specific topics to be considered include mechanisms of homeostasis, general cellular structure and function, introductory chemistry of biologically important molecules, movement of particles between cells and membrane structure. Basic cell metabolism, protein synthesis and cell replication will be outlined. An introduction to genetics will provide the basis for later discussion of genetic disease and genetic counselling. The study of bioelectrical and introductory neuroanatomy and neurophysiology will provide the underpinning to enable students to undertake further study in neurobiology.

BIOS1115 (111D1) Body Function in Health and Disease
Semester 2 - 3 credit points
This unit of study is designed to give students a foundation understanding of the function of the major organ systems relevant to the health professional. Major components of the course will include: the cardiovascular and respiratory systems; principles of pharmacology, dealing with both the therapeutic benefits and side effects of commonly used drugs, issues of compliance and adverse reaction; and the body's defence systems and infection control. The focus will be on the healthy body, however, consideration will be given to the implications for the whole body of dysfunction in each body system. Development and the effects of ageing will also be discussed. This unit of study will help students to better understand the important role of the body's systems in the context of the day to day activities.

OCCP1035 (15136) Human Occupations IA
Semester 1 - 2 credit points
The unit of study introduces students to the concept of purposeful occupation in areas of self-maintenance, productivity, leisure and rest. Students will explore the impact physical, psychosocial and cognitive dysfunction has upon self-maintenance task performance. They will also be given the opportunity to develop skills in methods used to assess, maintain, restore and enhance mobility and basic self-care skills.

OCCP1036 (15137) Human Occupations IB
Semester 2 - 3 credit points
This unit of study continues with self-maintenance occupations, addressing the home and the community environment and the nature of self maintenance activities within the context of daily life. Students will explore the effects of physical, psychosocial and cognitive dysfunction on personal care, home and community skills and examine various occupational therapy assessment and intervention strategies.
OCCP1037 (15138) Components of Occupational Performance IA
Semester 1 - 4 credit points
This unit of study introduces students to the components which underpin the performance of human occupations. Biomechanical, intrapersonal, interpersonal, cognitive and sensorimotor components are defined and their relationship to human performance of occupations explored. 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.

OCCP1038 (15139) Components of Occupational Performance IB
Semester 2 - 4 credit points
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.

OCCP1060 (15161) Occupational Therapy Theory and Process IA
Semester 1 - 3 credit points
This unit of study aims to introduce students to the concepts and philosophies which are foundations underlying current and future directions of occupational therapy practice. These concepts and philosophies will be explored from perspectives of occupational therapists, and from perspectives of consumers and community members.

OCCP1061 (15162) Occupational Therapy Theory and Process IB
Semester 2 - 2 credit points
This unit of study aims to explore foundations underlying current and future directions of occupational therapy practice from different theoretical perspectives as reflected in models of occupational therapy practice. Students will critically review models of occupational therapy practice and their influence on the problem solving process in occupational therapy practice.

OCCP1062 (15163) Occupations and Roles Across the Lifespan IA
Semester 1 - 2 credit points
This unit of study introduces the student to lifespan development concepts and to occupational and role development. It also focuses on the development of occupations and roles in infancy and childhood. Development of skills and abilities necessary for performance of occupations during infancy and childhood will be examined from various theoretical perspectives. Factors influencing occupational development during this stage in the lifespan will be discussed.

OCCP1063 (15164) Occupations and Roles Across the Lifespan IB
Semester 2 - 2 credit points
This unit of study focuses on the development of occupations and roles during adolescence and young adulthood. The interaction between the developmental changes and issues related to these lifespan stages and the development of occupations and roles are examined from various theoretical perspectives.

OCCP1064 (15165) Professional Practice I
Semester 1 & 2 - 4 credit points
This unit of study provides students with opportunities to interact with clients and relevant others; to demonstrate professional behaviour; to integrate and apply theory and skills gained in semester I in professional practice and other units; and to promote their awareness of the range and scope of occupational therapy services and the roles of team members.

Year 2

BEHS1132 (101F0) Introduction to Health Sociology
Semester 1 - 3 credit points
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 or ethnicity are critically examined and related to patterns of health and illness.

BEHS2083 (10294) Sociology of Health I
Semester 2 - 4 credit points
This unit of study examines sociological perspectives relating to work, organisations and clients. It integrates organisational dimensions and problems of therapy, aspects of work and non-work and sociological approaches to practitioner-client relationships.

BEHS1129 (101E7) Research Methods I: Design
Semester 1 - 3 credit points
This unit of study introduces students to the research process and focuses on developing informed consumers of research. The unit of study briefly considers the philosophy of science and 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.

The importance of research methods to evidence-based practice will be emphasised.

BEHS1152 (101F6) Research Methods II: Data Analysis and Statistics
Semester 2 - 3 credit points
Prerequisites Research Methods I: Design or Research Methods I This unit of study introduces prospective health science practitioners to methods for exploring and understanding qualitative and quantitative data with an emphasis on interpretation and implications for outcomes and quality assurance. Methods for collecting, exploring, and presenting data are discussed from the perspective of the practitioner. Qualitative and quantitative methodologies, numerical summaries and graphical methods are covered for both one and two variables, comparisons and relationships. Emphasis is placed on explaining patterns in data, outliers, variability, possible causes and mechanisms which generate the data. Distributions are introduced with particular reference to their substantive generating mechanisms. In particular, normal curves, survival type curves and
sampling distributions are examined with methods for investigating trends and departures from the overall pattern. The nexus between qualitative and quantitative methodologies is explored in the context of inference and scientific method. Inferential procedures for one and two variables, comparisons and relationships are used to illustrate this interdependence.

BIOS2056 (112A7)  Neurobiology II  
Semester 1 - 4 credit points  
Pre-requisite Neurobiology I (11179)  
This unit of study 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 unit of study. The unit of study includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the unit of study.

BIOS2057 (112A8)  Body Systems I  
Semester 2 - 2 credit points  
The anatomy and physiology of the cardiovascular system are covered. As an introduction to the cardiovascular system, the properties of blood and the mechanics of fluids are covered. This unit of study includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is a unit of study requirement.

EXSS2009 (22209)  Biomechanics for Occupational Therapy  
Semester 2 - 2 credit points  
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.

OCCP2041 (15297)  Human Occupations IIA  
Semester 1 - 2 credit points  
The unit of study 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.

OCCP2042 (15298)  Human Occupations MB  
Semester 2 - 3 credit points  
The focus of this unit of study 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.

OCCP2043 (15299)  Components of Occupational Performance IIA  
Semester 1 - 3 credit points  
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.

OCCP2044 (152A1)  Components of Occupational Performance MB  
Semester 2 - 3 credit points  
This unit of study focuses on two component areas of occupational performance. First, principles of psychosocial practice which underpin occupational therapy assessment and intervention in group work 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.

OCCP2045 (152A2)  Occupational Therapy Theory and Process IIA  
Semester 1 - 2 credit points  
This unit of study expands students’ understanding of occupational therapy theory and process introduced in Occupational Therapy Theory and Process I, as it relates to practice. Students will examine occupational therapy literature and identify the philosophical assumptions, relevant scientific and educational theories and the range of practice models and frameworks available.

OCCP2046 (152A3)  Occupational Therapy Theory and Process MB  
Semester 2 - 2 credit points  
This unit of study 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.

OCCP2047 (152A4)  Occupational Role Development II  
Semester 1 - 2 credit points  
Semester 2 - 2 credit points  
This unit of study 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.

OCCP2048 (152A5)  Fieldwork Education II  
Semester 1 - 5 credit points  
Semester 2 - 3 credit points  
This unit of study 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. It has two hours each for briefing and debriefing to facilitate students’ three week block placement (occurring during the intersemester break) in a professional setting. Total number of fieldwork hours is 117 hours.
BEHS3054 (103A3) Sociology of Health II  
Semester 2 - 3 credit points  
This unit of study focuses on sociological aspects of health policy and service delivery. Health care policies will be examined from a number of sociological perspectives and applied to service delivery in a variety of health care settings. State, national and international policies and perspectives on health care will be included.

BEHS3055 (103A4) Health Psychology  
Semester 2 - 3 credit points  
Students will select three of the following four units: Abnormal Psychology examines theories, classifications and treatment of abnormal behaviour. Psychology of Physical Disability explores community attitudes toward disability (causes, effects, ethnic differences, strategies for change) and the experiences of living with disability (e.g. problems associated with different types of onset, problems of social interaction, sexuality, ageing with a disability). Life Stress examines usage of the term "stress" and models of stress that underlie such usage. Psychophysiological aspects of the stress response are discussed, and the relationships of stress to various illnesses and disorders is considered. Effects of experience and environmental factors on stress are discussed in the context of both minor and major events. Coping strategies are described, and evidence relating these to functioning and well being is evaluated. Pain Perception examines the relationship between extent of injury and amount of pain; acute and chronic pain; gate control theory; measurement of pain; operant pain; effects of behavioural pain treatment programs; personality; activity-level and chronic pain; cancer; rheumatic and RSI pain.

BIOS3027 (11382) Body Systems II  
Semester 2 - 5 credit points  
Covers the anatomy and physiology of the respiratory, renal, digestive and reproductive systems. This will include consideration of the physics of respiration and the chemistry of acid-base balance. In addition, there is also an introduction to endocrinology, microbiology, immunology and pharmacology.

OCCP3030 (15379) Human Occupations III  
Semester 2 - 2 credit points  
Leisure as an area of occupational performance is examined in this unit of study. 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.

OCCP3031 (15380) Components of Occupational Performance III  
Semester 2 - 4 credit points  
This unit of study 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.

OCCP3032 (15381) Occupational Therapy Theory and Practice III  
Semester 2 - 3 credit points  
This unit of study 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.

OCCP3041 (15390) Fieldwork Education IIIA  
Semester 1 - 14 credit points  
This unit of study has two, one hour briefing sessions to facilitate students' seven week block placement in a professional setting. It provides them with the opportunity to apply theory and skills learned in the School of Occupational Therapy to the whole process of occupational therapy practice - assessing, planning, implementing, evaluating, reporting, recording and modifying intervention - for clients, while under supervision of the fieldwork supervisor. Total number of fieldwork hours is 264 hours.

OCCP3042 (15391) Fieldwork Education NIB  
Semester 1 - 10 credit points  
Semester 2 - 4 credit points  
This unit of study has two, one hour debriefing sessions after students' seven week block placement in a professional setting of a different nature to that in Fieldwork Education EIA (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. Total number of fieldwork hours is 264 hours.

Year 4

BEHS4026 (10465) Psychology of Adulthood and Aging  
Semester 1 - 2 credit points  
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.

BEHS4027 (10466) Social Psychology  
Semester 1 - 2 credit points  
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.

BEHS4028 (10467) Sociology Elective  
Semester 1 - 2 credit points  
Students will be required to choose one sociology elective. Electives may include: Sociology of Ageing, Australia's Immigrant Community, Occupational Health and Rehabilitation, Media and Health, Alternative Medicine.
EXSS4001 (22401) Applied Physiology
Semester 1 - 4 credit points
This unit of study 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.

OCCP4026 (15460) Human Occupations IV
Semester 1 - 4 credit points
This unit of study 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.

OCCP4027 (15461) Components of Occupational Performance IV
Semester 1 - 4 credit points
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.

OCCP4041 (154A6) Occupational Therapy Theory and Process IVA
Semester 1 - 1 credit point
Semester 2 - 2 credit points
Students will develop professional skills in oral and written presentation. Specifically, in Semester 1, students will prepare and run a workshop on a skill related to community occupational therapy practice. Students will develop a teaching manual for their workshop. In Semester 2, students will design and present a poster on a topic of current debate or concern to occupational therapists and the occupational therapy profession.

OCCP4042 (154A7) Occupational Therapy Theory and Process IVB
Semester 1 - 2 credit points
Students will have an opportunity to select one elective from a range of topic areas which may include Fieldwork Supervision, Culture, Management and Technology, and Using Educational Principles in Occupational Therapy.

OCCP4029 (15463) Evaluation of Occupational Therapy Programs
Semester 1 - 1 credit point
Semester 2 - 2 credit points
This unit of study 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.

OCCP4030 (15464) Fieldwork Education IV
Semester 1 - 2 credit points
Semester 2 - 20 credit points
This unit of study has one 10 week block placement in a professional setting plus briefings and debriefings Semester I and II respectively to facilitate integration of on-and off-campus learning. It provides students with the opportunity to consolidate and further develop, with supervision, knowledge, skills and attitudes necessary for safe and effective delivery of occupational therapy services in both traditional and specialised areas of practice. Students use the final two weeks of the placement to gather necessary information for formulating a proposal for the unit of study Evaluation of Occupational Therapy Programs. Total number of fieldwork hours is 379 hours.

Honours Program
General policies relating to the Honours Program are presented in Chapter 3. For information specific to the Occupational Therapy Honours Program students are advised to contact the Honours Course Coordinator. The Occupational Therapy Honours Program includes the first four semesters of the Pass program followed by four semesters when the student is specifically enrolled in the Honours Program. See Table 11.3 for course outline.

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

Year 3

OCCP3029 (15378) Honours Research Seminar I
Semester 2 - 3 credit points
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 unit of study each student will have prepared a written proposal for his/her research project and a student grant application and ethics application. The development of the research proposal is undertaken in collaboration with an academic supervisor.

Research Elective
Semester 2 - 3 credit points
This elective is an opportunity to choose a unit of study that best compliments the methodology anticipated to be used in the research project.

Year 4

OCCP4040 (154A5) Human Occupations IV (Hons)
Semester 1 - 2 credit points
This unit of study 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.
OCCP4019 (15442)  Honours Research Seminar II  
Semester 1 - 2 credit points  
Semester 2 - 2 credit points  
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. This unit of study also provides a continuing opportunity for Honours students to discuss with relevant staff, concerns regarding data analysis and interpretation related to their individual projects.

OCCP4023 (15445)  Honours Thesis  
Semester 1 -10 credit points  
Semester 2-12 credit points  
This unit of study 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 units of study, 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.

OCCP4044 (15489)  Fieldwork Education IV  
Semester 1- 6 credit points  
Semester 2- 16 credit points  
This unit of study has one 10 week block placement in a professional setting plus briefings and debriefings Semester I and II respectively to facilitate integration of on-and off-campus learning. It provides students with the opportunity to consolidate and further develop, with supervision, knowledge, skills and attitudes necessary for safe and effective delivery of occupational therapy services in both traditional and specialised areas of practice. Students use the final two weeks of the placement to gather necessary information for formulating a proposal for the unit of study Evaluation of Occupational Therapy Programs. Total number of fieldwork hours is 379 hours.

Professional Practice  
Professional Practice is an integral part of the occupational therapy and leisure and health programs offered by the School of Occupational Therapy. Fieldwork education may consist of block placements and other guided learning experiences. These experiences provide students with an opportunity to practise skills and take responsibility commensurate with their background knowledge and level of development, acquired during the course. Fieldwork block placements are periods of two to ten weeks where students attend a setting five days a week full time for approximately 37.5 hours per week. The placements occur during semester time and during recess periods, at all levels of the courses and are located in both metropolitan and country facilities.

Occupational Therapy Fieldwork Education  
Fieldwork Education I - Lectures, tutorials and two week block placement in the first two weeks of inter-semester recess (82 hours).  
Fieldwork Education II  
Fieldwork Education III A & B - Briefing and debriefing tutorials, and two blocks of placements of seven weeks each in the first semester (264 + 264 hours).  
Fieldwork Education TV - Fieldwork four has three parts. Briefing and debriefing tutorials, an eight week placement and a two week 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 unit of study Evaluation of Occupational Therapy Programs (379 hours).

Professional Practice Dates  
Year 1:  June 28 - July 9 (2 weeks);  
Year 2:  July 13 - July 30 (3 weeks);  
Year 3A:  March 1 - April 16 (7 weeks) AND  
Year 3B:  May 3 - June 18 (7 weeks)  
Year 4:  PASS August 9 - October 1 (8 weeks)  
Year 4:  HONS November 1 - December 24 (6 weeks)

Leisure and Health 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 three 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 III - During first semester, third year students undertake a nine week field placement. This may be completed in one block at a single facility or broken into two blocks at two different facilities. Students are able to make choices concerning the venue/s of this placement. This placement aims to integrate all subjects studied into practical experience and students are expected to work independently with supervision from placement advisors and the university supervisor. Students utilise learning contracts and have input into the assessment for this subject.

Professional Practice Dates  
Year 1:  June 28 - July 2 (1 week);  
Year 2:  July 4 - July 23 [inclusive] (3 weeks);  
Year 3:  March 22 - April 16 [inclusive] (4 weeks)  
April 26-May 28 [inclusive] (5 weeks)

Uniforms  
Students in the occupational therapy course may need to obtain uniforms to be worn while undertaking hospital placements where uniforms are required. Not all fieldwork sites require students to wear uniforms. Students in the leisure and health course may be required to wear uniforms on some fieldwork placements. A Faculty name badge is required to be worn at all times during fieldwork placements by both occupational therapy and leisure and health students. These badges can be obtained from the Students' Union.
Occupational Therapy Students

Women
Short sleeved white blouse
Navy blue culotte skirt / Navy blue trousers
Navy blue cardigan/jumper
Navy, black or white, closed shoes

Men
White short sleeves shirt
Navy blue trousers
Navy blue cardigan/jumper
Black or brown shoes

Leisure and Health Students

Women
Blouse: Lemon Shirtmaker
Skirt/Culotte: navy blue
Cardigan/jumper: navy blue
Shoes: closed in, navy blue

Men
Shirt: Lemon Shirtmaker
Trousers: navy blue
Cardigan/jumper: navy blue
Shoes: black
Physiotherapy is a health profession which deals with the prevention, assessment and treatment of human movement disorders. Physiotherapy services are used in a wide variety of areas such as health care organisations, schools, private practices, community and workplace settings. The physiotherapy profession is committed to continued research into its fundamental concepts and activities and the evaluation of physiotherapy services to ensure the optimum quality of care for the community it serves. The profession is also committed to effective communication with members of the health team, the community at large and the continuing education of its graduates. Staff and students of the School are actively involved in a number of research projects. These range over several areas including the investigation of human motor performance, musculoskeletal physiotherapy, neurological physiotherapy, occupational health issues, clinical reasoning and cardiopulmonary physiotherapy.

As one of the foundation schools of the Faculty of Health Sciences (formerly Cumberland College of Health Sciences) at the College's inception in 1975, the School of Physiotherapy has played an important role in the development of the Faculty and its academic programs. Prior to 1975, there was a physiotherapy program conducted through the Australian Physiotherapy Association in New South Wales which had been offered since its inception in 1907.

One of the major goals of the School is to graduate competent beginning practitioners of physiotherapy. To this end, the School's Undergraduate Studies Committee has reviewed the undergraduate program in relation to each of the Physiotherapy Competencies recently formulated by the physiotherapy profession in Australia. This Committee has ensured that each of these competencies is addressed in the curriculum. Reference to specific competencies is made in statements of unit aims and objectives eg. in student manuals.

The School has a strong commitment to achieving quality in all areas of endeavour. To achieve this goal the School has utilised findings from evaluation of our academic programs and research projects to refine the program offered. This evaluation has involved seeking and receiving critical appraisal from various sources including student, teacher, peer and external evaluation, from external advisory committees and members of the physiotherapy profession, from national and international colleagues and from members of this and other faculties of the University.

In common with other departments at the University of Sydney, the School of Physiotherapy promotes students' development of generic as well as discipline-specific knowledge and skills. Generic skills, for example communication and team work skills, are necessary attributes of all graduates of higher education in this age of change. In fostering these skills the School is preparing its graduates to work in many different settings to promote health and facilitate rehabilitation. Work venues include generalist and specialist settings in city and rural regions, and in institutional, school, industrial and community contexts.

The School of Physiotherapy currently offers two undergraduate programs (pass and honours bachelor degrees). The honours program is available to students completing their second year of the undergraduate program who have met the eligibility criteria and quota for admission to the Honours Program. Nine graduate programs are conducted by the School. These include research programs at masters and doctoral levels and coursework programs in manipulative physiotherapy, sports physiotherapy, and a combined program which addresses a number of other professional sub-disciplines.

Enquiries regarding academic programs should be directed to the following:
Academic Program Administrator, Ayanthi Salgado (9351 9378); the Undergraduate Programs Coordinator: Dr Chris Maher (9351 9192); the Honours Program Coordinator: Dr Sharon Kilbreath (9351 9272).
### Table 14.1 Bachelor of Applied Science (Physiotherapy)

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**Stage Total** 48 24 24

### Year 4 (1999-2000)

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**Stage Total** 48 24 24
### Table 14.2 Bachelor of Applied Science (Physiotherapy) - Honours

#### Course
- **Code**: 1642
- **Mode of Offer**: Honours Program; Full-time, 4 years

**Years 1 and 2 as per Pass program (Table 14.1 and 14.3)**

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School of Physiotherapy
Table 14.3 Bachelor of Applied Science (Physiotherapy)

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### Table 14.4 Bachelor of Applied Science (Physiotherapy) - Honours

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**Stage Total** 54 27 27

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**Stage Total** 60 30 30
Bachelor of Applied Science (Physiotherapy)

The current undergraduate programs are four year full-time programs. These lead to a Bachelor of Applied Science (Physiotherapy) (Pass) degree and a Bachelor of Applied Science (Physiotherapy) (Honours) degree and aim to equip students with the appropriate knowledge, skills and attitudes to work effectively as members of the physiotherapy profession. Graduates of these full-time programs are eligible for registration as Physiotherapists with the NSW Physiotherapists Registration Board.

Admission Requirements

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

The profession of physiotherapy is physically demanding and requires for its practice the development of a range of precise physical skills. Prospective students should be aware that they will be expected to carry out and have carried out upon themselves as simulated patients, all the examination and treatment procedures used by physiotherapists. Such practical classes may involve partial disrobing. Participation in these classes is a requirement of the program.

Any prospective student who thinks that he/she may have a consideration, condition or disability which may interfere with the development or practice of physical skills, or with participation in clinical education should consult the Head of the School of Physiotherapy before commencing the program.

Course Outline

The course outlines for the Bachelor of Applied Science (Physiotherapy) are presented in Tables 14.1 and 14.2. Note: Students will normally complete all units 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 units from more than one year of the program are required to seek permission to enrol in particular units from the designated Academic Program Advisors in the School. This will ensure that students' programs are not severely handicapped by an inappropriate or unmanageable combination of units. Attendance at all lectures and tutorials is expected for all units. Students entering the program are required to complete all first year units within two years and all first and second year units within four years.

Unit Descriptions

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

Year 1

BEHS1123 (101E1) Introductory Psychology
Semester 1 - 3 credit points (39 hours)
This unit provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology and health psychology.

BEHS1091 (101A6) Psychology of Motor Behaviour
Semester 2 - 2 credit points (28 hours)
Pre-requisite Introductory Psychology (BEHS1123)
This unit will cover information processing and the human sensory-motor system, stages of skill acquisition, motor development, age and skill, automatic versus conscious motor control, expert-novice skill differences, ecological and motor program approaches, motor learning and rehabilitation settings, operant applications, biofeedback and behaviour modification, hemispheric specialisation, handedness, vision and kinesthesis in motor control.

BEHS1108 (101C5) Research Methods I: Design
Semester 1 - 3 credit points (42 hours)
This unit introduces students to the research process and focuses on developing informed consumers of research. This unit 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.
BIOS1054 (11158)  Introductory Human Biology  
Semester 1 - 4 credit points (60 hours)  
This unit 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.

BIOS1055 (11161)  Body Systems I  
Semester 2 - 4 credit points (56 hours)  
Pre-requisite Introductory Human Biology (BIOS1054)  
This unit will present the anatomy and physiology of the cardiovascular, respiratory and digestive systems. The unit includes laboratory classes where the unit is studied from human cadavers. Attendance at such classes is required for the unit.

BIOS1064 (11172)  Functional Anatomy A  
Semester 1 - 5 credit points (62 hours)  
This unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1065 (11173)  Functional Anatomy B  
Semester 2 - 5 credit points (54 hours)  
Pre-requisite Functional Anatomy A (BIOS1064)  
This unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1082 (11191)  Introductory Neurobiology  
Semester 1-3 credit points (31 hours)  
Co-requisite Introductory Human Biology (BIOS1054)  
This unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

BIOS1083 (11192)  Neurobiology I  
Semester 2 - 2 credit points (31 hours)  
Pre-requisites Introductory Neurobiology (BIOS1082), Introductory Human Biology (BIOS1054)  
This unit 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 unit includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

PHTY1013 (16113)  Electrophysical Agents I  
Semester 2 - 4 credit points (49 hours)  
Assumed knowledge Functional Anatomy A (BIOS1064)  
This unit involves the student in the study of the physical bases 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 symptom reduction and the enhancement of tissue repair. The topics studied include conductive heating and cooling, ultrasound, pressure therapy, laser, and ultraviolet radiation. Safety issues are emphasised. Also, an emphasis is placed on communication skills development, which is considered an integral part of quality health management. In order to pass this unit a satisfactory standard must be achieved in both the theoretical and practical components of the unit.

PHTY1015 (16115)  Kinesiology I  
Semester 1 - 3 credit points (26 hours)  
Semester 2 - 3 credit points (34 hours)  
Co-requisites Functional Anatomy A (BIOS1064), Functional Anatomy B (BIOS1065), Psychology of Motor Behaviour (BEHS1091)  
This unit will provide students with a comprehensive understanding of normal movement. Students will learn to collect and interpret information about normal and abnormal motor function using a wide range of qualitative and quantitative methods. Modules include the observation of everyday tasks (sitting, standing up, standing, walking, reaching and manipulation), and measurement of joint range, muscle strength, and motor skill. Material presented in this unit will be integrated with material presented in Functional Anatomy and Behavioural Sciences.

PHTY1016 (16116)  Musculoskeletal Physiotherapy I  
Semester 2 - 4 credit points (48 hours)  
Pre-requisite Functional Anatomy A (BIOS1064)  
Co-requisite Functional Anatomy B (BIOS1065)  
This unit 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.
This unit comprises two concurrent modules: the Physiotherapy Workplace and Teaching and Learning Skills. The module on the Physiotherapy Workplace is a lecture series, in which students are introduced to broad and specific issues and practices in health care delivery affecting physiotherapists. Coverage includes the roles and responsibilities of physiotherapists and other health professionals in the context of the changing health care environment, and the principles and process of professional documentation. The Teaching and Learning Skills module is presented in the format of workshops and seminars. With the focus on the future physiotherapy professional, the module aims to foster the development of the student as an ongoing and autonomous learner, and as a future teacher of clients, fellow health professionals and the lay community. There is also an emphasis on the development of skills in writing, in the delivery of oral presentations, in interviewing, and in teamwork and communication. Throughout the semester links are made between the two modules, to 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 unit.

**Year 2**

**BEHS2111 (102C3) Research Methods II: Data Analysis**  
_Semester 2 - 3 credit points (46 hours)  
_Pre-requisite: Research Methods I: Design (BEHS1108)  
This subject builds on BEHS1108 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 across and correlation, and the 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.

**BEHS2112 (102C4) Introduction to Health Sociology**  
_Semester 2 - 2 credit points (26 hours)  
This unit provides an understanding of basic sociological concepts and theories and their application in analysing health in Australia. It develops the student's ability to critically examine and evaluate aspects of society which are often taken for granted in order to extend understanding of the social structures, institutions and processes relevant to health in Australia. The unit also provides opportunities for enhancing linguistic, writing and analytical skills by introducing some of the sociological methods of collecting, analysing and reporting health data.

**BEHS2113 (102C5) Social and Health Psychology**  
_Semester 2 - 2 credit points (39 hours)  
This subject aims to introduce students to theories and research on interactions between people, particularly at work. Module 1 will present a variety of theoretical positions describing the social processes that influence behaviour in the workplace. Module 2 examines the social position and life experiences of people with chronic illnesses and disabilities. Module 3 introduces students to a comprehensive model of professional communication to facilitate the development of personal and interpersonal skills.

**BIOS2037 (11286) Body Systems II**  
_Semester 2 - 1 credit points (28 hours)  
_Pre-requisite: Body Systems I (BIOS1055)  
This unit 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.

**BIOS2038 (11287) Neurobiology II**  
_Semester 1 - 6 credit points (58 hours)  
_Pre-requisite: Neurobiology I (BIOS1083)  
This unit 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 unit. The unit includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the unit.

**EXSS2008 (22208) Biomechanics**  
_Semester 1 - 4 credit points (40 hours)  
This unit 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 Functional Anatomy A (BIOS1064) and Functional Anatomy B (BIOS1065). 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.
This unit will introduce students to the knowledge, skills and clinical decision making process necessary for effective assessment and management of patients with respiratory and cardiac dysfunction. In particular, students will evaluate the pathophysiological consequences of abdominal and thoracic surgery, infective and inflammatory conditions and airflow limitations on pulmonary function and impaired cardiac function on the cardiovascular performance. Additionally, students will develop treatment strategies to effectively manage respiratory and cardiac problems identified in adults or children. There will be an emphasis on preventative management and the unit will provide students with an opportunity to apply, integrate and extend knowledge gained in year 1 Biological Sciences, Musculoskeletal Physiotherapy and Kinesiology.

This unit aims to equip students with the necessary cognitive and practical skills to assess and manage patients with selected problems of the peripheral musculoskeletal system. Areas covered include clinical assessment, clinical decision making, philosophy and guidelines for treatment and clinical measurement for various conditions affecting the foot, ankle, knee, hip, shoulder, elbow and hand regions. Specific therapeutic modalities taught include remedial exercise prescription, manual therapy skills (selected peripheral mobilisation techniques and soft tissue stretching), hydrotherapy, orthotics and prosthetics. Other topics include pain management, peripheral nerve injuries, osteoporous and health promotion, sports injuries, pharmacology for physiotherapists and rheumatology.

This unit builds on Physiotherapy Practice 1, in further developing the attributes and skills of the students as a health professional. It examines legal, ethical and quality issues in health care practice in general, and in physiotherapy in particular. Law and ethics are covered in lectures. In addition during workshop sessions, students explore the inter-relationship between ethics and communication within the framework of clinical decision making. It is unlikely that credit transfer will be granted for this unit since the ethical scenarios that are utilised are physiotherapy specific; also knowledge of the law and how it relates to physiotherapy practice must be current. (This unit was previously titled Topics in Physiotherapy II (PHTY2022).)

The aim of this unit is to provide an opportunity for the student to develop a broad understanding of the provision of physiotherapy services in healthcare settings. Students may be placed in one of many healthcare settings such as public hospitals and community facilities. Communication skills development is an integral part of this subject. In addition, the emphasis of the placement is on safety in patient handling, on aspects of examination, on the analysis of information gained from the examination and on the implementation of a treatment program.

This unit of study aims to develop in students a better understanding of the healthcare system and an appreciation of the diversity of healthcare delivery. Community Fieldwork will provide students with an opportunity to create conditions conducive to independent learning. This is consistent with the University of Sydney's Generic Attributes Policy. Students will be able to investigate a particular interest, especially within the community healthcare setting.
BEHS3050 (10398)  Social Theory and Health
Semester 1-4 credit points (42 hours)
This unit aims to develop an understanding of basic sociological concepts and their relationship to health care. The program will increase students’ ability to critically examine and evaluate aspects of society with which they are familiar in order to extend their understanding of social structures, organisational contexts and processes relevant to health, illness and health care. Conceptually it will begin at the macro level of the health system and policy formulation and move to the micro level of the client and practitioner. In addition, the unit will extend students’ knowledge of the methods of analysing and interpreting sociological data in the health area.

BEHS3067 (103B9)  Research Methods II: Data Analysis
Semester 1 - 3 credit points (46 hours)
Pre-requisite Research Methods I: Design (101C5)
This unit builds on 101C5 and introduces students to basic qualitative and quantitative data analysis techniques. Using examples from physiotherapy practice, this unit 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.

BIOS3019(11374)  Body Systems III
Semester 1 - 2 credit points (24 hours)
Pre-requisite Body Systems II (BIOS2037)
This unit will present the anatomy and physiology of the endocrine and reproductive systems, general principles of pharmacology, and the pharmacology of relevant body systems.

EXSS3009 (22309)  Applied Physiology
Semester 1 - 2 credit points (26 hours)
Semester 2 - 3 credit points (48 hours)
Co-requisite Body Systems III (BIOS3019)
The aim of this unit is to provide students with an understanding of the responses that occur in men and women during exercise. This unit will build upon the principles and information provided in the earlier years of the program and will also attempt to provide students with an understanding of the exercise response in both healthy (eg. marathon runners) and diseased populations (eg. peripheral vascular disease patients). The approach will be integrative, with particular attention given to the regulation of the changes in the cardiovascular, respiratory, endocrine and metabolic systems during exercise.

PHTY3019 (16320)  Physiotherapy in Neurology II
Semester 1-4 credit points (42 hours)
Semester 2 - 2 credit point (21 hours)
Pre-requisite Physiotherapy in Neurology I (PHTY3037)
This unit introduces the study of the impairments and problems arising from brain damage of acute onset. Movement habilitation/rehabilitation of infants, children and adults will be explored in depth using the theoretical framework studied in Physiotherapy in Neurology I. Motor training techniques based on the biomechanical characteristics of linked segments and the characteristics of muscle will be studied. Analysis of the rehabilitation environment and strategies to increase the amount of practice carried out by patients will be examined.

PHTY3022 (16323)  Topics in Physiotherapy III
Semester 1 - 1 credit points (12 hours)
Semester 2 - 2 credit point (30 hours)
Pre-requisites Clinical Education IA (PHTY2029), Clinical Education IB (PHTY2039)
Co-requisite  Body Systems III (BIOS3019)
This unit examines community health issues and the role of the physiotherapists in two strands. In the first strand we explore the principles and practice of health promotion. Current issues in community-based rehabilitation are also addressed, with particular reference to the well elderly. In the second strand, we explore the physiotherapists contribution in a number of healthcare areas including, for example: elderly people with disease and/or disability; pre- and post-natal women; people with burn injuries, with amputations, with HIV/AIDS, and people with urinary incontinence. The theory and practice of infection control are also addressed.

PHTY3029 (16330)  Cardiopulmonary Physiotherapy II
Semester 1-2 credit points (24 hours)
Pre-requisites Body Systems II (BIOS2037, Cardiopulmonary Physiotherapy I (PHTY2020)
Co-requisite Applied Physiology (EXSS3009)
The aim of this unit is to continue to develop knowledge and skills in the assessment and management of patients with cardiopulmonary dysfunction. Students will examine specific clinical and professional issues relating to the intensive care and acute care environment. The emphasis will be on appropriate assessment, safe and effective treatment management of intubated and non intubated patients in respiratory failure.

PHTY3030 (16331)  Musculoskeletal Physiotherapy III
Semester 1 - 6 credit points (70 hours)
Semester 2 - 2 credit points (32 hours)
Pre-requisite Musculoskeletal Physiotherapy II (PHTY2002)
This unit 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. As in earlier musculoskeletal physiotherapy units, the emphasis is on evidence-based practice with students exposed to a range of physiotherapy management options for spinal pain, such as manual therapy and various forms of exercise plus the medical options for spinal pain. A small module on chronic pain is included in the unit.
NB: The second semester of this unit will contain a 16 hour paediatric module until the year 2000 when this material will become part of a separate paediatrics unit.
PHTY3040 (16341) Exercise and Health
Semester 2 - 2 credit points (24 hours)
Pre-requisites Cardiopulmonary Physiotherapy I (PHTY2020), Body Systems II (BIOS2037)
Co-requisites Applied Physiology (EXSS3009)
This unit further develops student's knowledge of exercise, and aims to apply the principles of exercise testing, prescription and training. These principles will be applied to patients who 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.

PHTY3031 (16332) Clinical Education II
Semester 2 - 13 credit points (190 hours)
Pre-requisites Clinical Education IA (PHTY2029), Clinical Education IB (PHTY2030), Electrophysical Agents II (PHTY2027), Cardiopulmonary Physiotherapy II (PHTY3029), (Students who fail PHTY3029 are precluded from undertaking the Cardiopulmonary and Neurology modules of Clinical Education II (PHTY3031))
Co-requisites Physiotherapy in Neurology II (PHTY3019)
Musculoskeletal Physiotherapy III (PHTY3030)
Students will build on the experience gained in Clinical Education IA and IB. Students will be expected to demonstrate an increased ability in managing the patient (assessment, treatment and evaluation). Professional practices will also be emphasised. The clinical placement will be in one of the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas.

Year 4

BEHS4022 (10457) Health, Medicine and Society
Semester 1 - 2 credit points (28 hours)
This unit 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 bureaucratization, 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.

BEHS4035 (10479) Health Psychology
Semester 1 - 2 credit points (42 hours)
Pre-requisites Social Interaction, Communication and Personality (BEHS2077)
This unit 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.

PHTY4016 (16444) Physiotherapy in Neurology III
Semester 1 - 1 credit points (15 hours)
Semester 2 - 2 credit points (24 hours)
Pre-requisite Physiotherapy in Neurology II (PHTY3019)
This unit continues to examine the theoretical base for clinical intervention encompassing an historical perspective of neurological rehabilitation. It provides the opportunity for students to further develop their skill in relation to problems associated with lesions of the nervous system.

PHTY4048 (164C9) Topics in Physiotherapy IV
Semester 2 - 3 credit points (46 hours)
Students will continue their study of professional issues, and will explore the role of the physiotherapist in the area of occupational health, and in the management of people with chronic pain. The unit will be taught in three strands: Professional Issues, Occupational Health and Chronic Pain.

PHTY4055 (164F4) Musculoskeletal Physiotherapy IV
Semester 2 - 2 credit points (32 hours)
Pre-requisite Musculoskeletal Physiotherapy III (PHTY3030)
This unit 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 unit 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 unit is to continue developing the student's ability to evaluate and draw implications from the literature in the area of musculoskeletal physiotherapy. Note: Students who have successfully completed the vertebral component of MS3 but not the paediatric component may apply to the Head of School to waive this prerequisite.

PHTY4079 (16410) Clinical Education III A
Semester 1 - 9 credit points (190 hours)
Pre-requisites Clinical Education II (PHTY3031), Musculoskeletal Physiotherapy III (PHTY3030), Cardiopulmonary Physiotherapy II (PHTY3029) (Students who fail PHTY3029 are precluded from undertaking the Cardiopulmonary and Neurology modules of Clinical Education III A (PHTY4079), Clinical Education IIIB (PHTY4059), Clinical Education IIIC (PHTY4060)
The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas. Further integration, decision making and justification of patient management will be expected on progressive units.
Note: Students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education III A, EIB or ETC.
PHTY4059 (164F8) Clinical Education HIB
Semester 1 - 8 credit points (190 hours)
Pre-requisites Clinical Education II (PHTY3031), Musculoskeletal Physiotherapy III (PHTY3030), Cardiopulmonary Physiotherapy II (PHTY3029) (Students who fail PHTY3029 are precluded from undertaking the Cardiopulmonary and Neurology modules of Clinical Education IIIA (PHTY4079), Clinical Education HIB (PHTY4059), Clinical Education IIIC (PHTY4060).
The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas. Further integration, decision making and justification of patient management will be expected on progressive units.
Note: Students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education EIA, fIIIB or UIC.

PHTY4060 (164F9) Clinical Education IIIC
Semester 2 - 13 credit points (190 hours)
Pre-requisites Clinical Education II (PHTY3031), Musculoskeletal Physiotherapy III (PHTY3030), Cardiopulmonary Physiotherapy II (PHTY3029) (Students who fail PHTY3029 are precluded from undertaking the Cardiopulmonary and Neurology modules of Clinical Education IIIA (PHTY4079), Clinical Education HIB (PHTY4059), Clinical Education IIIC (PHTY4060).
The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas. Further integration, decision making and justification of patient management will be expected on progressive units.
Note: Students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education IIIA, IIIB or UIC.

PHTY4061 (164G0) Cardiopulmonary Physiotherapy III
Semester 1-1 credit point (14 hours)
Semester 2 - 1 credit point (10 hours)
Pre-requisite Cardiopulmonary Physiotherapy II (PHTY3029), Applied Physiology (EXSS3009)
This unit aims to further develop the student's understanding of cardiopulmonary dysfunction, the scientific basis for therapeutic intervention and the process of clinical decision making. Areas that will be addressed include the management of individuals with one or more of the following disorders - chronic/acute airflow limitation, cardiovascular disorders, supportive and infective lung diseases, restrictive lung disorders. There is an emphasis throughout the unit on self-directed learning and skills in presenting justification for clinical intervention.

PHTY4068 (164H9) Evidence-Based Practice
Semester 1 - 1 credit point (13 hours)
Semester 2 - 3 credit point (39 hours)
Prerequisite Research Methods I: Design (101C5), Research Methods II: Data Analysis II (BEHS3067)
In this subject students will learn how clinical epidemiology research can guide clinical practice. Students will learn to find and critically appraise research into the diagnosis, aetiology, prognosis and treatment conditions treated by physiotherapists, and how to apply that information to individual patients.

Honours Program
The following information is specific to the Physiotherapy Honours program. Entry to the Honours program is competitive and requires completion of the first two years of the course with a credit or higher average without any failed grades. An Honours degree is awarded after satisfactory completion of all coursework and a thesis during the third and fourth years of the course. Honours students are required to maintain a credit average in the third year. Students are required to complete all units within the Honours program within two years of their initial enrolment in that program. There is no re-examination for any unit in the Honours program. Students who fail to meet these criteria for retaining candidature in the Honours program will be required to discontinue that program. They may be re-absorbed into the Pass program provided they meet the criteria for retention and progression in this course. See Table 14.1 for the course outline.

General policies relating to the Honours Program are presented in Chapter 3. For further information specific to the Physiotherapy Honours Program, students are advised to contact the School's Honours Program Coordinator, Dr Sharon Kilbreath, telephone (02) 9351 9272.

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: unit exemptions and additions (as outlined below), variation in clinical education units' timing and hours and timetabling flexibility (as outlined below).

Exemptions: Students in the Honours Program complete all year 3 and year 4 units in the Pass Program, except Evidence-Based Practice (164H9) from which they are exempt.

Clinical Education: In year 4 Honours students complete three clinical education units which are similar in content and goals to the pass program units. However, the first two units vary in hours from the parallel pass units. That is honours students complete PHTY4080 Clinical Education IIHA instead of PHTY4079 Clinical Education IIIB and complete PHTY4081 Clinical Education IUHB instead of PHTY4059 Clinical Education IIIC. They also complete PHTY4060 Clinical Education IIIC along with the pass students. Honours students should note that due to these concessions their total clinical hours are 1000 which is the minimum number of hours required for course completion. Therefore, they are normally required to make up any absences from clinical placements.

Semester 7 Timetabling Flexibility: In semester 7, year 4 students are permitted (with support of their supervisors) to spread their coursework over weeks 4-13 or to concentrate their coursework studies in weeks 4-8 (with Group B of the Pass Students) or in weeks 9-13 (with Group A of the Pass Students) to allow for flexibility in accommodating the needs of different students' honours projects (eg, in terms of data collection). Notification of the preferred option is required before the end of Week 3 of Year 4.

Additional units: Honours students complete the following extra units: BEHS3044 Research Statistics, PHTY3034 Research for Physiotherapists, PHTY4042 Honours Thesis and PHTY4053 Honours Research Seminar.
Unit Description

See Pass program unit descriptions for units in common with Pass program. Special Honours units are as follows:

**Year 3**

**BEHS3044 (10392) Research Statistics**
Semester 2 - 2 credit points (28 hours)
Pre-requisite Research Methods II: Data Analysis (103B3or103B9)
This unit consolidates and extends statistical skills acquired in the previous unit. It provides the foundation for the statistics which may be used in the Honours research project. Topics to be covered include analysis of variance, multiple regression, non-parametric statistics and other selected topics. The unit includes extensive use of computer statistical packages (SPSS for Windows or Minitab for Windows) and use of Internet search engines to locate statistical information relevant to the health sciences.

**PHTY3034 (16335) Research for Physiotherapists**
Semester 2 - 1 credit points (16 hours)
This unit enables students to build on previous knowledge of research methods and to develop skill in applying this to research models for physiotherapists. The unit enables students to evaluate the suitability of assumptions made in physiotherapy related research, to evaluate design strategies used and their appropriateness for the research undertaken and to design and evaluate effective sampling procedures for a particular research project. By the time students have completed the unit they will have prepared a written research proposal.

**Year 4**

**PHTY4042 (16499) Honours Thesis**
Semester 1 and 2 - 9 credit points
Co-requisite Honours Research Seminar (PHTY4053)
This unit provides Honours students with the opportunity to undertake a supervised research project in an area of physiotherapy. As part of this and other Honours units, 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.

**PHTY4053(164F2) Honours Research Seminar**
Semester 1 - 2 credit points (21 hours)
Semester 2 - 1 credit points (15 hours)
Co-requisite Honours Thesis (PHTY4042)
The aim of this unit is to develop students' skills required to present orally their research project and to produce their thesis. This unit 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.

**PHTY4080 (16411) Clinical Education IIIHA**
Semester 1 - 8 credit points (152 hours)
Pre-requisites Clinical Education II (PHTY3031), Musculoskeletal Physiotherapy II (PHTY3030), Cardiopulmonary Physiotherapy II (PHTY3029) (Students who fail PHTY3029 are precluded from undertaking the Cardiopulmonary and Neurology modules of Clinical Education IIIHA (PHTY4080), Clinical Education IIIHB (PHTY4081), Clinical Education IIIC (PHTY4060)
The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general elective 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 unit is equivalent in content to PHTY4059 Clinical Education EIA.

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

**PHTY4081 (PHTY16412) Clinical Education IIIHB**
Semester 1 - 7 credit points (180 hours)
Pre-requisites Clinical Education II (PHTY3031), Musculoskeletal Physiotherapy II (PHTY3030), Cardiopulmonary Physiotherapy II (PHTY3029) (Students who fail PHTY3029 are precluded from undertaking the Cardiopulmonary and Neurology modules of Clinical Education IIIHA (PHTY4080), Clinical Education IIIHB (PHTY4081), Clinical Education IIIC (PHTY4060)
The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general elective 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 unit is equivalent in content to PHTY4059 Clinical Education EIA.

Note: Students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education IIIHA, IIIHB or IIC. While enrolled in this unit honours students can negotiate with their honours project supervisor and their clinical education supervisor to be absent from their clinical placement for ten hours during the placement to engage in honours studies and/or meetings with supervisors. (Thus this unit is ten hours less than the parallel pass unit).

**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 units and practical skills in a clinical setting thereby gaining experience in physiotherapy practice.
During the undergraduate program students are balloted, via preference choice, to a Clinical School. Clinical Schools are geographically aligned as much as possible to area health regions. Students are allocated placements within their Clinical School including at least one rural placement. Opportunities may exist for senior students to elect to do an interstate or overseas placement depending on availability.

It is a requirement that all students obtain a certificate of competency in Cardiopulmonary Resuscitation (CPR). This must be completed and evidence of competency shown before commencing the first clinical placement in second year. For example, St John Ambulance programs on CPR are available through the metropolitan and country areas. Life-saving certificates of CPR competency will also be accepted.

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

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

A specific number of clinical hours is required to ensure adequate clinical practice. Time missed from clinical placements must normally be made up, at the discretion of the Head of School. There is no set number of days which can be missed. This is quite a separate issue from the achievements of the clinical objectives which are assessed on each clinical. The make up of time is necessary since there is a requirement for registration as a physiotherapist that a certain amount of clinical practice be completed during the program.

The make up time is completed in weeks between semester 2 Exams and Christmas, and students are advised to take this into consideration before arranging holidays. Students in year 4 may be required to complete makeup time during the intersemester break.

### 1999 Clinical Practice Dates

#### Pass and Honours Program

**Year 2**
Inter-semester Break July 12 - August 6
Fieldwork placement to be undertaken between 4 October 1999 and end Semester 1, 2000.

**Year 3**
August 9 - September 10.

#### Year 4 - Pass Program Only
Pre-semester 1: Groups A & B February 15 - March 19
Semester 1: Group A March 22 - April 23 Group B May 3 - June 4.
Semester 2: Groups A & B October 11 - November 12

#### Year 4 - Honours Program Only
Pre-semester 1 and Semester 1: January 18 - February 12, February 15 - March 19.
Semester 2: October 11 - November 12.

Note: Time missed from clinical placements must be made up at the discretion of the Head of School.

#### Uniforms

The uniform required for Physiotherapy students is as set out below:

**Female**
- Navy blue culottes or navy blue tailored trousers (straight legs)
- White short sleeved blouse or School of Physiotherapy polo shirt with University of Sydney insignia (as supplied by the Student Guild)
- Black/white shoes
- Natural coloured stockings with culottes
- Navy cardigan or jumper

**Male**
- Navy blue trousers or shorts
- White short sleeved, open neck shirt or School of Physiotherapy polo shirt with University of Sydney insignia (as supplied by the Student Guild)
- Black/white shoes
- White walk socks with shorts
- Navy jumper or cardigan

All students require a University of Sydney Photograph identification tag which can be obtained from the Student Guild.

Any student who does not comply with the above may be sent out of the clinical situation. Arrangements will be made for a representative of the supplier to come to the Student Guild and take uniform orders. Please leave the purchase of your uniforms until this time. Plain navy cardigans and navy pullovers may be purchased at most large department stores.
This chapter provides detailed course information about off-shore (Singapore-based) conversion courses to bachelor degrees in nursing, occupational therapy, physiotherapy and medical radiation sciences.

The off-shore programs are conducted in Singapore by the Faculty of Health Sciences in conjunction with the Singapore Institute of Management. They arose from a successful tender by the Faculty to conduct conversion courses for health professionals, namely, nurses, occupational therapists, physiotherapists, and medical radiation technologists, who are local residents of Singapore. Graduates from these programs will receive an award from the University of Sydney. The courses are conducted in a part-time modular mode, the duration being eighteen months to two years (see individual program entries). Several modules described in the Nursing program are common to the Occupational Therapy, Physiotherapy and Medical Radiation Technology programs (see individual program entries).

Each module is conducted over a three week period and comprises of thirty hours of student contact. Modules are programmed to allow time between each module for completion of assessment tasks.

The ongoing responsibility for the management of the programs lies with the Faculty of Health Sciences. Staff in the Dean’s Office co-ordinate interactions with the Singapore Institute of Management, the Singapore Ministry of Health and the Faculty of Nursing, the University of Sydney. The role of the Singapore Institute of Management is to provide a vehicle for implementing the courses.

The Faculty of Health Sciences also offers full-time on-shore (Sydney-based) Singapore Conversion programs in occupational therapy, physiotherapy and radiography. These courses are specifically designed for ‘A level entry’ diplomates who have graduated from Nanyang Polytechnic to convert their diploma qualifications to a Bachelors degree.

### Off-Shore (Singapore-based) Programs

#### Table 15.1 Bachelor of Health Science (Nursing)

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<th>Course Code</th>
<th>Mode of Offer</th>
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<td>SING4001</td>
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Note: Credit may be given for previous learning.
### Bachelor of Health Science (Nursing)

#### Admission requirements

Applicants should possess:

- a Diploma in Nursing from Nanyang Polytechnic, Singapore; OR
- a Diploma in Nursing from an approved institution; OR
- a Certificate in Nursing from the Singapore School of Nursing, or its equivalent; AND
- a minimum of twelve months nursing clinical practice; AND
- employment as a registered nurse in a working environment appropriate to their profession and acceptable to the University.

#### Unit Descriptions

**SING4001/SING4024 (20401/20424) The Nature of Health Care Delivery**

**Semester 1 - 3 credit points**

This unit introduces students to the social, cultural, political, economic dimensions of health care. The unit aims to provide an understanding of the factors which influence the health of the population and the delivery of health care.

**SING4002/SING4025 (20402/20425) Ethical Dimensions of Health Care Delivery**

**Semester 1 - 3 credit points**

This unit examines the ethical issues which confront health professionals and provides a framework for their analysis. The works of several moral theorists are presented to provide an underpinning for the examination of health care issues.

**SING4003/SING4026 (20403/20426) Psychology of Teaching and Learning**

**Semester 1 - 3 credit points**

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; provides an overview of learning theories and types of learning; considers the significance of motivation and reinforcement in the process of learning; and explores theories of learning in the cognitive, affective and psychomotor domain and consider their implication for teaching.
<table>
<thead>
<tr>
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<th>Semester</th>
<th>Credit Points</th>
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<td>SING4013/SING4034</td>
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<tr>
<td>SING4014/SING4037</td>
<td>Advanced Clinical Studies</td>
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This 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 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.

This unit develops students' awareness of law as it relates to health care and management. Issues relevant to the Singapore legal system will be highlighted.

This unit develops knowledge from Psychology of Teaching and Learning and provides students with the opportunity to develop teaching skills. This unit has fifteen non-teaching hours to enable practical application of the theory targets.

This unit extends the skills acquired in Research Methods I to inferential research procedures and methods appropriate to the health professions. Topics include probability, significance, confidence intervals, inferential statistics, discriminant analysis, multiple group designs, and bio-statistics. Part of this unit includes the application of the skills acquired in a clinical context.

This unit examines the major causative factors of disease and their relationship to the epidemiology of illness.

This 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.

This unit introduces students to the financial management of hospitals and health services institutions. Topics covered include basic accounting procedures, financial and budgetary process, types of budgets, and auditing procedures. In addition the unit covers hospital accounting systems and methods of funding, hospital cost analysis and control, and clinical costing systems. This unit has fifteen non-teaching hours to enable practical application of the theory taught.

This 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.

This unit provides students with an understanding of the principles of health assessment and the skills necessary to undertake health history and physical examination.

This unit 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.

This 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 unit has fifteen non-teaching hours to enable practical application of the theory taught.
Table 15.3 Bachelor of Health Science (Occupational Therapy)

<table>
<thead>
<tr>
<th>Course Code</th>
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### Part-time Mode

#### Year 1

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**Stage Total** 24 12 12

#### Year 2

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<td>SING4016</td>
<td>Occupational Therapy Theory and Process</td>
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<td>SING4017</td>
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</table>

**Stage Total** 24 13 16

Note: Students may be granted credit for prior learning.

### Bachelor of Health Science (Occupational Therapy)

#### Admission Requirements

Applicants should possess:

i) A Diploma in Occupational Therapy from Nanyang Polytechnic, Singapore, with "A Level" entry;

OR

ii) An approved Diploma in Occupational Therapy from outside Singapore, minimum three years, with entry level at the minimum eligibility requirements in the GCE "A" level Examinations or the equivalent.

#### Course Outline

The course outline for the Bachelor of Health Science (Occupational Therapy) course is presented in Table 15.3.

#### Unit Descriptions

Note: For descriptions of units SING4002/5/8/10/11 see previous entry under Bachelor of Health Science (Nursing) course.

**SING4015 (20415) Components of Occupational Performance**

**Semester 1 - 3 credit points**

This unit examines further deficits in cognitive, sensory motor and biomechanical components of performance in order to further restore, maintain and enhance human occupational performance. Specifically, students will learn to apply existing knowledge about upper limb orthotics and physical guidance to adults and children with brain impairment.

**SING4016 (20416) Occupational Therapy Theory and Process**

**Semester 2 - 4 credit points**

This unit consists of two parts. Part A provides students with an opportunity to develop a workshop focused around micro skills appropriate for use in community occupational therapy. The students will research and develop a workshop manual and conduct a workshop on a chosen topic. Students further develop their abilities to gather and synthesise relevant data, teach skills, and plan programs in occupational therapy. Part B provides students with an opportunity to develop management skills for occupational therapy practice. Current management theories will be reviewed and applied to occupational therapy practice.

**SING4017 (20417) Evaluation of Occupational Therapy Programs**

**Semester 1 - 3 credit points**

This unit provides students with an understanding of the principles of program evaluation in clinical settings and an introduction to strategies of program needs assessment, process evaluation, impact and efficiency evaluation. Students have an opportunity to systematically plan, participate in and document a program evaluation. This module has fifteen non-teaching hours to enable practical application of theory taught.
Table 15.4 Bachelor of Health Science (Physiotherapy)

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**Stage Total**

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<td>SING4018 (20418)  Evaluation in Physiotherapy</td>
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<td>SING4019 (20419)  Topics in Physiotherapy Management</td>
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</table>

**Stage Total**

*Note: Students may be granted credit for prior learning.*

**Bachelor of Health Science (Physiotherapy)**

**Admission requirements**

Applicants should possess:

i) a Diploma in Physiotherapy from Nanyang Polytechnic, Singapore, with A level entry; OR

ii) an approved Diploma in Physiotherapy from outside Singapore, minimum three years, with entry level at the minimum eligibility requirements in the GCE "A" level examinations or their equivalent.

**Unit Descriptions**

Note: For descriptions of units SING4001 to SING4011 see previous entry under Bachelor of Health Science (Nursing) course.

**SING4018 (20418) Evaluation in Physiotherapy**

*Semeater 1 - 3 credit points*

The aim of this unit is to explore the principles and procedures of quality assurance specifically in relation to evaluation of patient outcomes. This unit provides the opportunity to identify areas in which evaluation can be used to direct physiotherapy intervention; to discuss practical aspects as well as philosophical issues related to measurement of outcome; and to investigate the variety of measures used to assess clinical outcomes. Students will also explore these issues in their own workplace.

**SING4019 (20419) Topics in Physiotherapy Management**

*Semester 2 - 4 credit points*

In this unit, students will address issues related to specific topic in physiotherapy which will facilitate/enhance their managerial abilities. Topics will include: the assessment and management of individual, group and department performance; occupational health and safety; the evaluation of new technology and equipment in terms of clinical and scientific merit and cost-effectiveness; analyses of the environment (e.g. physiotherapy department) to identify to what extent it meets the goals set forth by that department; presentation of submissions; marketing, ethics and public relations; politics of health care; continuing professional development.

**SING4020 (20420) Advanced Physiotherapy Studies**

*Semester 2 - 4 credit points*

This unit provides the opportunity to evaluate clinical trials in selected areas of physiotherapy through discussion on: the prevailing clinical opinions on the effectiveness of particular physiotherapy treatments as reflected in the literature; the degree of confidence that can be attached to the proposed scientific basis for the treatment; and an analysis of outcome studies on the effectiveness of intervention.

*These units are currently under review.*
Table 15.5 Bachelor of Health Science (Medical Radiation Technology)

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**Stage Total** 24 12 12

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<td>Management of Equipment Selection</td>
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</table>

**Stage Total** 24 12 12

Note: Students may be granted credit for prior learning.

### Bachelor of Health Science (Medical Radiation Technology)

#### Admission requirements

Applicants should possess:

i) a Diploma in Radiography from Nanyang Polytechnic, Singapore, with A level entry, AND

ii) a minimum of one year medical radiation sciences clinical practice, OR

ii) a Diploma of the College of Radiographers (Singapore) or equivalent, AND

iii) a minimum of three years medical radiation technology clinical practice after graduation.

#### Unit Descriptions

Note: For descriptions of units SING4001 to SING4011 see previous entry under Bachelor of Health Science (Nursing) course.

**SING4021 (20421) Department Design and Safety Issues**

*Semester 1 - 3 credit points*

This unit provides students with the opportunity to examine the physical structure of departmental design including radiation safety. Occupational health and safety issues for staff and patients will be examined.

**SING4022 (20422) Computer Communications in Medical Radiation Sciences**

*Semester 2 - 4 credit points*

This unit provides students with an understanding of the design implications of digital image management and the communication systems needed to facilitate patient care procedures. Concepts including PACS, DICOM, RIS, telediagnosis and record and verify systems will be discussed. This module also provides students with the opportunity to examine computer based methods to efficiently utilise staff time and resources within a Medical Radiation Department.

**SING4023 (20423) Management of Equipment Selection**

*Semester 2 - 4 credit points*

This unit provides students with an understanding of equipment selection and the ongoing requirements of quality assurance programs. The needs assessment, equipment acquisition, commissioning and methods of implementing an ongoing QA program will be presented. This module has fifteen non-teaching hours to enable practical application of theory taught.
On-Shore (Sydney-based) Programs

Table 15.6 Bachelor of Health Science (Medical Radiation Technology)

<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>MRTY3052 (18352)</td>
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<tr>
<td>MRTY3053 (18353)</td>
<td>Principles of Oncology A</td>
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<td>Radiation Therapy Project</td>
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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 Sciences) degree. This course has been designed to complement the three year full-time Diploma in Medical Radiation Sciences program from Nanyang Polytechnic, Singapore; 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. Enquiries with regard to professional accreditation should be directed to that institute.

Admission Requirements

Applicants should possess:
i) an "A Level" entry Diploma in Medical Radiation Sciences program from Nanyang Polytechnic, Singapore;
OR
ii) an equivalent award unit as approved by the Head of School, such approval may require additional areas of study.*

Course Outline

The program outline for the one year Bachelor of Health Science (Medical Radiation Sciences) conversion course is presented in Table 15.6.
Unit Descriptions

BEHS3073 (103C6) Behavioural Science IIA
Semester 1 - 5 credit points
There are two units in this unit. 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.

BEHS3074 (103C7) Behavioural Science 1MB
Semester 2 - 3 credit points
There are two units in this unit. The unit Health, Medicine and Society provides an analysis of the institutional aspects of medical and health care while the second unit provides an introduction to Social Psychology.

MRTY2037 (18237) Radiation Protection
Semester 2 - 1 credit point
This unit provides a study of the safe uses of ionising radiation in medicine. Issues of monitoring, shielding and Australian radiation legislation are addressed.

MRTY2038 (18238) Radiation Biology
Semester 2 - 1 credit point
This unit provides a study of the radiobiological effects of ionising radiation. Dose response, damage and repair, sensitisation and protection as well as time, dose and fractionation are all addressed.

MRTY3037 (18337) Image Processing A
Semester 1 - 2 credit points
This unit provides a study of the processes of the human visual system, image digitisation, contrast enhancement, spatial-domain and frequency-domain processing.

MRTY3038 (18338) Image Processing B
Semester 2 - 1 credit points
This unit provides a study of pattern recognition, binary image processing, measurement, image compression, current medical imaging applications and research.

MRTY3057 (18357) Field Project A
Semester 1 - 4 credit points
This unit comprises one module on a clinically related unit such as quality assurance.

MRTY3058 (18358) Field Project B
Semester 2 - 11 credit points
This project comprises a number of modules on clinically related unit such as department design and safety issues, and computer communication and management.

MRTY3039 (18339) Sonography A
Semester 1 - 2 credit points
This unit provides an introduction to the clinical applications and practice of diagnostic ultrasound.

MRTY3040 (18340) Sonography B
Semester 2 - 2 credit points
This unit provides an introduction to the clinical applications and practice of diagnostic ultrasound.

MRTY3041 (18341) Imaging IIA
Semester 1 - 4 credit points
This unit complements Imaging and concentrates upon ensuring a study of a range of radiographic equipment including that designed for special procedures.

MRTY3042 (18342) Imaging IIB
Semester 2 - 2 credit points
This unit concentrates upon ensuring a study of the range of digital radiographic equipment. Quality assurance and radiation protection principles and practice are expanded further.

MRTY3043 (18343) Radiography IIA
Semester 1 - 4 credit points
This unit builds upon the unit Radiography which has discussed the radiographic techniques for general skeletal radiography. This unit develops higher order critical thinking and radiographic skills in the areas of multiple trauma, paediatric radiography, gastro-intestinal and genitourinary contrast examinations. The unit also provides the student with a "problem solving" approach to technically difficult radiographic examinations. Case scenarios include a variety of patient injuries, pathological diseases and physical disabilities.

MRTY3044 (18344) Radiography IIB
Semester 2 - 2 credit points
This unit provides students with knowledge of specialised radiographic imaging modalities. These include angiography, CT, MRI and other smaller areas of contrast examinations. Students will examine aspects such as patient and contrast media preparation, technical considerations and routine protocols for the specialised modalities. The appropriateness of a particular imaging modality will be discussed with respect to the diagnosis of injury or presence and extent of a disease process.

MRTY3032 (18332) Radiographic Pathology II
Semester 2 - 2 credit points
This unit 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.

MRTY3033 (18333) Contrast Media
Semester 1 - 2 credit points
This unit 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.

MRTY3049 (18349) Radiation Therapy IIA
Semester 1 - 5 credit points
This is the fourth of five units which cover the principles and applications of applied radiation therapy. Advanced routine applications of radiation therapy are examined, including the incorporation of cross-axial imaging modalities into planning. Problem-based learning methods will be used in this unit.
MRTY3050 (18350) Radiation Therapy II B  
Semester 2 - 3 credit points  
This is the last of five units which cover the principles and applications of applied radiation therapy. This unit extends the study of the applications of radiation therapy into the rarer techniques and provides an introduction to the less common modalities of brachytherapy, stereotactic radiosurgery, interoperative radiotherapy and others.

MRTY3051 (18351) Radiotherapy Physics II A  
Semester 1 - 2 credit points  
This is the third of four units which cover the physical principles of the use of ionising radiation in radiation therapy. This unit introduces the student to the physics behind a variety of innovations in radiotherapy including multileaf collimation, 3D treatment planning and algorithms.

MRTY3052 (18352) Radiotherapy Physics II B  
Semester 2 - 2 credit points  
This is the last of four units which cover the physical principles of the use of ionising radiation in radiation therapy. This unit explores the uses of less common treatment modalities in radiotherapy. Basic brachytherapy physics is also addressed.

Table 15.7 Bachelor of Health Science (Occupational Therapy)  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Mode of Offer</th>
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<th>Semester 2</th>
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<tr>
<td>OCCP4042</td>
<td>Occupational Therapy Theory &amp; Process IV B</td>
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<td>2</td>
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<td>OCCP4047</td>
<td>Human Occupations</td>
<td></td>
<td>2</td>
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<tr>
<td>OCCP4038</td>
<td>Evaluation of Occupational Therapy Programs</td>
<td></td>
<td>1</td>
<td>2</td>
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<tr>
<td>OCCP4039</td>
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<td>OCCP4037</td>
<td>Field Work Education</td>
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</table>

Bachelor of Health Science (Occupational Therapy)  
This is a six month full-time degree conversion course to be held in Semester 1 and inter-semester break of the academic year in the University of Sydney 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 places emphasis on critical and intellectual inquiry with options for elective study.

Diploma graduates enrolling in this course will gain added value in further academic development and future professional autonomy. They would be able to choose some topics of their liking for more indepth study. Furthermore, they will be eligible to enrol, after graduation, into relevant graduate courses at a later date if so desired.

Admission Requirements  
Holders of a 'A level entry' Diploma in Occupational Therapy awarded by the Nanyang Polytechnic in Singapore, PLUS six months full-time fieldwork experience working as an occupational therapist.

Course Outline  
The course outlines for the Bachelor of Health Science (Occupational Therapy) course are presented in Table 15.7.

Unit Descriptions  
BEHS4028 (10467) Sociology Elective  
Semester 1 - 2 credit points  
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.
OCCP4046 (154B1) Components of Occupational Performance
Semester 1 - 4 credit points
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.

OCCP4045 (154B0) Occupational Therapy Theory & Process IVA
Semester 1 - 2 credit points
Students will develop professional skills in oral and written presentation. Specifically, students will prepare and run a workshop on a skill related to community occupational therapy practice. Students will develop a teaching manual for their workshop.

OCCP4042 (154A7) Occupational Therapy Theory & Process IVB
Semester 1 - 2 credit points
Students will have an opportunity to select one elective from a range of topic areas which may include Fieldwork Supervision, Culture, Management and Information of Technology, and Using Educational principles in Occupational Therapy.

OCCP4047 (154B2) Human Occupations
Semester 1 - 2 credit points
This unit provides students with the opportunity to choose a relevant unit, e.g. Management of children with learning disorders, from Human Occupations IV (OCCP4060).

OCCP4038 (154A3) Evaluation of Occupational Therapy Programs
Semester 1 - 1 credit points
Inter-semester - 2 credit points
This unit 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.

OCCP4039 (154A4) Elective Study
Semester 1 - 3 credit points
This unit provides students the opportunity to choose a relevant unit from undergraduate courses which are being offered by Schools and/or Departments of the Faculty of Health Sciences, The University of Sydney, unit to the approval of relevant Heads of Schools and/or Departments.

OCCP4037 (154A2) Fieldwork Education
Inter-semester break - 6 credit points
This unit has one 4-week block placement in a professional setting during the intersemester break. It aims to broaden students (who are qualified occupational therapists) perspective of occupational therapy practice and to provide them with the opportunity to gain specialised occupational therapy knowledge and skills in an area of practice, which they can take back to their country of origin.

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### Table 15.7.1 Bachelor of Health Science (Occupational Therapy) Honours

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>(154A7) Occupational Therapy Theory &amp; Process IVB</td>
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<td>(154B2) Human Occupations</td>
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<td>OCCP4037</td>
<td>(154A2) Fieldwork Education</td>
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<td>OCCP4019</td>
<td>(15442) Honours Research Seminar II</td>
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<td>(154B3A) Honours Dissertation A</td>
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<td>(154B3B) Honours Dissertation B</td>
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| Stage Total | 48 | 18 | 6 | 24 |
Bachelor of Health Science (Occupational Therapy) Honours Course

This is a one-year full-time degree conversion course leading to the award of a Bachelor of Health Science (Occupational Therapy) Honours 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 Honours degree.

Diplomats enrolling into this proposed course will gain added value in further academic development and future professional autonomy. They would be able to choose relevant research electives for in-depth study. Furthermore, they will be eligible to enroll, after graduation, into relevant graduate courses at a later date if so desired. Students who choose to withdraw, after enrolment, from the Honours course will still be able to pass the pass degree conversion course.

Admission Requirements
1. Credit Grade Average attained in the three years full-time Diploma in Occupational Therapy Course of GCE ‘A’ level entry at the Nanyang Polytechnic;
2. Six months full-time fieldwork experience as an occupational therapist prior to commencing the honours degree conversion course;
3. Credit Grade Average to be attained in the first semester (the pass component) before proceeding to second semester of the honours course; and
4. Admission to the honours course will be subject to the availability of appropriate supervision.

Course Outline
The Course Outlines for the Bachelor of Health Science (Occupational Therapy) Honours course are presented in Table 15.7.1.

Unit Description
BEHS4028 (10467) Sociology Elective
Semester 1-2 credit points
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.

OCCP4046 (154B1) Components of Occupational Performance
Semester 1-4 credit points
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.

OCCP4042 (154A7) Occupational Therapy Theory & Process IVB
Semester 1 - 2 credit points
Students will have an opportunity to select one elective from a range of topic areas that may include Fieldwork Supervision, Culture, Management and Information of Technology, and Using Educational principles in Occupational Therapy.

OCCP4047(154B2) Human Occupations
Semester 1-2 credit points
This unit provides students with the opportunity to choose a relevant unit, e.g. Management of children with learning disorders, from Human Occupations TV (OCCP4060).

OCCP4037 (154A2) Fieldwork Education
Intersemester break - 6 credit points
This unit has one 4-week block placement in a professional setting during the Intersemester break. It aims to broaden students (who are qualified occupational therapists) perspective of occupational therapy practice and to provide them with the opportunity to gain specialized occupational therapy knowledge and skills in an area of practice, which they can take back to their country of origin. Part of this placement may be directed to information gathering and data collection relating to the student’s research project.

OCCP3029 (15378) Honours Research Seminar I
Semester 2 - 3 credit points
This seminar is designed to assist honours students with the development of their individual research projects.

OCCP4019 (15442) Honours Research Seminar II
Semester 1-2 credit points
Semester 2-2 credit points
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.

Research Elective
Semester 2-3 credit points
Students will be required to choose one Research Elective that best compliments the methodology anticipated to be used in the research project.

OCCP4049 / OCCP4050 (154B3A/154B3B) Honours Dissertation
Semester 1 - 6 credit points
Semester 2-16 credit points
This unit is designed for honours students to develop their individual research project proposal under the supervision of the supervisor. At the end of Semester 1, each student will have prepared a written proposal and ethics application.
In Semester 2, each student will implement, under the close supervision of the supervisor, an approved project and submit a written report that normally does not exceed 20,000 words.
Table 15.8 Bachelor of Health Science (Physiotherapy)

<table>
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<th>Course</th>
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Study Preparation Program - 5 weeks pre-semester

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<th>Weeks</th>
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<tr>
<td>BEHS3067</td>
<td>Research Methods: Data Analysis</td>
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<tr>
<td>BIOS3019</td>
<td>Body Systems III</td>
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<tr>
<td>EXSS3009</td>
<td>Applied Physiology</td>
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<tr>
<td>PHTY3019</td>
<td>Physiotherapy in Neurology II</td>
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<tr>
<td>PHTY3022</td>
<td>Topics In Physiotherapy III</td>
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<tr>
<td>PHTY3029</td>
<td>Cardiopulmonary Physiotherapy II</td>
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<tr>
<td>PHTY3030</td>
<td>Musculoskeletal Physiotherapy III</td>
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<th>Standard Year 4 Program</th>
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<tr>
<td>BEHS4022 (10457) Health, Medicine and Society</td>
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<tr>
<td>BEHS4035 (10479) Health Psychology</td>
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<tr>
<td>PHTY4016 (16444) Physiotherapy in Neurology III</td>
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<td>PHTY4048 (164C9) Topics in Physiotherapy IV</td>
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<td>PHTY4055 (164F4) Musculoskeletal Physiotherapy IV</td>
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<td>PHTY4056 (164F5) Research and Investigation II</td>
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<td>PHTY4057 (164F6) Research and Investigation III</td>
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<tr>
<td>PHTY4061 (164G0) Cardiopulmonary Physiotherapy III</td>
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</table>

| Stage Total | 40 | 16 | 24 |

These students will be considered with Group B for clinical education placements. See Chapter 14 for descriptions for these units.

Bachelor of Health Science (Physiotherapy)

The conversion program is one year full-time. This program leads to a Bachelor of Health Science (Physiotherapy) degree and aims to equip students with the appropriate knowledge, skills and attitudes to work effectively as members of the physiotherapy profession. Graduates of this program may apply individually for registration as physiotherapists with the Physiotherapists’ Registration Board of New South Wales.

Admission Requirements

Entry will be restricted to diplomats who have completed the ‘A level entry’ Diploma in Physiotherapy from Nanyang Polytechnic in Singapore. This pass level conversion course is designed to complement the content of the current Diploma in Physiotherapy offered by the School of Health Sciences, Nanyang Polytechnic, Singapore.

Course Outline

The program outline for the one year Bachelor of Health Science (Physiotherapy) conversion course is presented in Table 15.8.

Note: Students will normally complete all units listed in the sequence in which they appear in the handbook. Permission to alter this sequence must be obtained from the Head of School.

Unit Descriptions

BEHS4022 (10457) Health, Medicine and Society

Semester 1 - 2 credit points

This unit 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.
BEHS4035 (10479) Health Psychology
Semester 1 - 2 credit points
This unit 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.

PHTY4016 (16444) Physiotherapy in Neurology III
Semester 1 - 1 credit point
Semester 2 - 2 credit points
This unit 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.

PHTY4048 (164C9) Topics in Physiotherapy IV
Semester 2 - 3 credit points
Students will continue their study of professional issues and the health needs of selected populations. The unit will be taught in four strands. These include: Professional Practice; Occupational Health; Chronic Pain and Illness; The Elderly.

PHTY4055 (164F4) Musculoskeletal Physiotherapy IV
Semester 2 - 2 credit points
This unit 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 unit 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 unit is to continue developing the student's ability to evaluate and draw implications from the literature in the area of musculoskeletal physiotherapy.

PHTY4056 (164F5) Research and Investigation II
Semester 1 - 1 credit point
Semester 2 - 1 credit point
In this unit students learn the skills required to prepare a research proposal. Students will work in small groups with a supervisor to develop a research proposal.

PHTY4057 (164F6) Research and Investigation III
Semester 1 - 1 credit point
Semester 2 - 2 credit points
In this unit students will evaluate clinical trials in physiotherapy. Students will apply knowledge and skills gained in prior research units, as well as in the various areas of physiotherapy practice. Students will investigate an area of physiotherapy of their choice.

PHTY4059 (164F8) Clinical Education NIB
Semester 1 - 8 credit points
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.

PHTY4060 (164F9) Clinical Education IIIC
Semester 2 - 13 credit points
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.

PHTY4061 (164G0) Cardiopulmonary Physiotherapy III
Semester 1 - 1 credit point
Semester 2 - 1 credit point
This unit aims to further develop the student's understanding of cardiopulmonary dysfunction, the scientific basis for therapeutic intervention and the process of clinical decision making. Areas that will be addressed include the management of individuals with one or more of the following disorders- chronic/acute airflow limitation, cardiovascular disease, respiratory muscle dysfunction, cardiac and lung transplantation. There is an emphasis throughout the unit on self-directed learning and skills in presenting justification for clinical intervention.
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 for their course as the timing and structure of clinical education affect the exact length of courses and vacation time.

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 some 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 a place public liability and professional indemnity policy which extends to protect students from claims made against them which arise out of any negligent act, error, or omission on the part of the student during such fieldwork. The territorial limit for this coverage is worldwide with the exception of U.S.A. and Canada where the coverage may be limited. The Properties Services Division should be advised if fieldwork is to be undertaken in U.S.A. or Canada.

Other Relevant Policies
The University has a personal accident policy covering postgraduate students against accidental bodily injury, providing death and capital benefits, as well as a weekly benefit whilst disabled. The Students’ Representative Council of the University maintains a similar policy for undergraduates.

Information on Infectious Diseases for Students and Clinical Teachers
Infectious diseases are of concern to all those working in clinical settings. Whilst an understanding of the transmission of diseases such as AIDS, hepatitis and tuberculosis is particularly important, all students and clinical teachers must acquaint themselves with information about the potential dangers of all communicable diseases likely to be experienced in Australia. They should be aware of sources of infectious micro-organisms, their modes of transmission and the ways of reducing the risk of infection to self, patients and others.

Detailed information on this subject is contained in the documents such as "Infectious Disease and You" published by the Faculty. A copy may be obtained from the Student Administration Services Division (Cumberland).

Further information about infectious diseases is available, in confidence, from the Faculty adviser, Ms Neryla Jolly, Head, School of Applied Vision Sciences (9 351 9250).

Counselling Support for Students on Clinical Placements
Students who feel that they have any personal/family issues which may impact negatively on their performance on clinical placements should contact either their Clinical Coordinator for referral to the Counsellor or may approach the Counsellor at Cumberland directly. The Counselling service at Cumberland is both FREE and CONFIDENTIAL, and students are encouraged to ask for help as early as possible before their placements begin. The Counsellor can also provide support for students already on placements who find they are having problems with after hours appointments or by telephone. Typical problems for students on clinical placements include balancing work and family, stress, interpersonal relationships, supervisor - student relations, anxiety about the workplace etc. The Counsellor is located at Room A005 in A Block and appointments can be made by using the booking sheet there or by calling the Counsellor on 9351 9473.

Criminal Records Check
All health care workers, including students who undertake clinical professional training of fieldwork in the NSW health care system, are required to be subject to a criminal records check as a condition of gaining access to NSW Health Department facilities. Depending on the nature of the offence for which a conviction has been recorded, the NSW Department of Health has the right not to accept a health care student or worker for placement in the NSW health care system.

All students in the Faculty and Health Sciences will receive, as part of their enrolment package, a form from the NSW Department of Health consenting to a criminal records check. The NSW Department of Health requires you to complete, sign and return the enclosed form directly to the NSW Department of Health as soon as possible after receipt. Failure to do so could mean non-acceptance by the NSW Department of Health for a placement to undertake clinical experience. Non-acceptance of a student under this policy could affect that student's academic progress. Accordingly, you are urged to contact the Faculty advisor if you have any concerns or if you wish to obtain a full copy of the NSW Department of Health's policy. Enquiries concerning this policy can also be directed to the Faculty advisor - Ms Neryla Jolly, phone +61 2 9351 9250.

The University is not involved in this checking process and it will not be given any information about students on whom an adverse criminal record report is made. This information will be retained by the NSW Department of Health, which is legally entitled to hold such records, and the NSW Department of Health will correspond directly with adversely affected students. The University, in consultation with the Students Representative Council (SRC), has established protocols to enable students affected by the policy to receive appropriate advice and support and, if necessary, to enable them to transfer their enrolment to another course. These protocols were implemented in 1998.

School of Applied Vision Sciences
The School of Applied Vision Sciences acknowledges the following for their support in the School's Clinical Education Program.

Public Hospitals
Metropolitan
Blacktown
Concord Repatriation General
Lidcombe
Liverpool
Prince of Wales, Randwick
Ryde Rehabilitation & Geriatric Service
St George, Kogarah
St Vincent's, Darlinghurst
Sydney Eye, Woolloomooloo
The New Children's Hospital, Westmead
Westmead

Country/State
Gosford District

Overseas
Auckland, New Zealand
State Government Departments and Agencies
Community Health Centres:
  - Kingswood
  - Western Sydney Developmental Disability Service, Marsden Campus

Community Agencies and Private Organisations
  - Alice Betteridge School
  - Royal Blind Society of NSW - Enfield, Newcastle & Canberra
  - Royal Far West Children’s Health Scheme, Manly
  - Spastic Centre, Allambie Heights

Private Practitioners
  - SBrunner
  - J Cumines
  - A Macfarlane

Private Sponsored Practices
  - M Awad, Y Makdissi - Dr S Franks
  - K Bourne - Dr F Martin
  - P Britz - Drs M Manuk, C Joneshart, W Porter
  - Dr C Challinor
  - M Courtney - Drs I Goldberg & G Cohn
  - JEllery - Dr K Chatfield
  - D Ferguson - Dr K Frumar
  - R Kay - Drs J Peters, J Dickson & C Thomas
  - R Keirnicky, K Pallett - Dr T Keldoulis
  - R Krikorian - Dr A Hunyor
  - R Lang - Drs C Baker, W Barnett & Moore
  - V Mercer - Drs D Sharota & L Dinihan
  - Dr W Muntz
  - J Richardson - Dr I Francis
  - M Rodkin - Gibb & Beeman, Optometrists
  - V Tosswill - M Stratdhee
  - G van Beveren - Dr S Saunders

School of Communication Sciences and Disorders
The School of Communication Sciences and Disorders wishes to acknowledge the contributions to the clinical education program December 1997 - December 1998 of the following agencies.

Public Hospitals
  - Blacktown Community Health Centre
  - Burwood Community Health Centre
  - Cairns Community Health Centre
  - Chatswood Community Health Centre
  - Coffs Harbour Community Health Centre
  - Hawkesbury Community Health Centre
  - Hillview Community Health Centre
  - Hornsby Community Health Centre
  - Mt Druitt Community Health Centre
  - Penrith Community Health Centre
  - Queenscliff Community Health Centre
  - Sylvania Community Health Centre
  - Tamworth Community Health Centre
  - The Hills Community Health Centre

Department of Health
  - Blacktown Community Health Centre
  - Burwood Community Health Centre
  - Cairns Community Health Centre
  - Chatswood Community Health Centre
  - Coffs Harbour Community Health Centre
  - Hawkesbury Community Health Centre
  - Hillview Community Health Centre
  - Hornsby Community Health Centre
  - Mt Druitt Community Health Centre
  - Penrith Community Health Centre
  - Queenscliff Community Health Centre
  - Sylvania Community Health Centre
  - Tamworth Community Health Centre
  - The Hills Community Health Centre

Department of Family and Community Services
  - Bankstown Department of Community Service
  - Campbelltown Department of Community Service
  - Fairfield Department of Community Service
  - Northern Beaches Department of Community Service
  - Parramatta Department of Community Service
  - Southern Sydney Department of Community Service

Overseas
  - Singapore General Hospital
  - St Vincent's Special Needs Service, USA
  - Glasgow Infirmary, Scotland

Clinical Education (Fieldwork/Professional Experience) 16 - 3
Community Agencies and Private Organisations
Alice Betteridge School, North Rocks
Autistic Association, Kingsgrove
Spastic Centre, Fairfield

Other Organisations
Aged Care Service, Hobart
Bowen Support Service, TAS
Catholic Schools Office, Waitara
Chigwell Primary School, Hobart
Child Health, ACT
ED Department Darwin
ED Department, Devonport
Mater Dei Special School, Campbelltown
Mt Roskill Grammar School, NZ
Shepherd Centre, NSW
Wollongong Child Development Unit
Wynnum Public School, QLD

School of Community Health
The School of Community Health wishes to acknowledge the following organisations for their contribution to the 1998 Field Experience in the Diploma and Bachelor of Health Science (Aboriginal Health and Community Development) courses and the Bachelor's Degree, Graduate Diploma and Master's Degree 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, NSW
Department of Social Work, Royal Alexander Hospital, Camperdown, NSW
Illawarra Area Health Service, Wollongong, NSW
MacQuarie 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 Naroona, 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
Thara wal 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 Sarebrooks, QLD
Aboriginal and Islander Community Health Service, Brisbane, Woolloongabba, QLD
Aboriginal and Islander Community Health Service Ipswich, Ipswich, QLD
Aboriginal Community Health, Redfern, NSW
Bega Community Health, Bega, NSW
Community and Allied Health Services, Liverpool, NSW
Community Health Centre, Kempsey, NSW
Community Health Centre, Moruya, NSW
Community Health Centre, Warrawong, NSW
Community Health Tweed Heads, Tweed Heads, NSW
Community Health, Eden, NSW
Community Health, Thursday Island, QLD
Darlinghurst Community Health, Darlinghurst, NSW
Early Childhood Centre, Glebe, NSW
Griffith Community Health Centre, Griffith, NSW
Hoxton Park Community Health Centre, Hoxton Park, NSW
Macksville Community, Macksville, NSW
Narooma Community Health, Narooma, NSW
Orana Far West Region Community Health, Dubbo, NSW
Primary Health Care, Coffs Harbour, NSW
Primary Health Services, Coffs Harbour, NSW
St. Pauls Community Health, Via Thursday Island, QLD
Thursday Island Community Health, Thursday Island, QLD
Toomelah Health Centre, Boggabilla, NSW
Townsville Aboriginal and Islander Community Health Service, Townsville, QLD

Drug and Alcohol Services
Aboriginal Co-ordinating Council, Cairns, QLD
Bennalong Haven, Kinchela, NSW
Dooonoch, 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 Fletcher 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
Aboriginal Organisations

Aboriginal and Islander Child Care, Brisbane, QLD
Aboriginal and Islander Health Workers Journal, Matraville, NSW
Aboriginal Birthing Project, Port Augusta, SA
Aboriginal Business Enterprise Centre, Randwick, NSW
Aboriginal Dance Theatre, Strawberry Hills, NSW
Aboriginal Family Care Community Organisation, Bodalla, NSW
Aboriginal Hostels, Darlinghurst, NSW
Aboriginal Housing Company, Strawberry Hills, NSW
Aboriginal Legal Service, Blacktown, NSW
Aboriginal Legal Service, Strawberry Hills, NSW
Aboriginal Media Unit, Surry Hills, NSW
Aboriginal Student Support Parent Association Committee, Batemans Bay, NSW
ATSIC, Dubbo, NSW
Barrie kneal 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
Gununa Inc, Dubbo, NSW
Illawara United Aboriginal Corporation for Sport and Recreation, Wollongong, NSW
Innovative Youth Programme, Woonoolgabba, QLD
Karragul Aboriginal Health 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
Pjjunju, Minto, NSW
Queanbeyan Aboriginal Legal Service, Queanbeyan, NSW
Queanbeyan Aboriginal Legal Service, Queanbeyan, NSW
Rose Mumber 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
Yinganeth 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. Mary's Branch), St. Marys, NSW
Aboriginal Health Resource Co-op Ltd., Strawberry Hills, NSW
Aboriginal Health, North Sydney, NSW
Amaru Skill Share Provider, Campbelltown, NSW
Armidale Shelter, Armidale, NSW
Australian Museum, Sydney, NSW
Campbelltown Police Station, Campbelltown, NSW
Central Coast Division of General Practice, Gosford South, NSW
Department of Social Services, Nowra, NSW
Home Care Dubbo, Dubbo, NSW
Home Care Service, Armidale, NSW
Home Care, Central Coast Branch, Wyong, NSW
Home Care, Mt. Druitt, NSW
Kirketon Road Centre, Kings Cross, NSW
Koori Unit, SBS Television, Crows Nest, NSW
Marcia's Woman's Refuge, Campbelltown, NSW
NSW Police Department, North Region, Gosford, NSW
NSW Police Department, North West Region, Parramatta, NSW
NSW Police Department, South Region, Erskinville, NSW
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 and Community Health Services

Metropolitan
- Balmain Mental Health Team
- Botany Community Health Centre, Mental Health Team
- Chatswood Mental Health Outreach Team
- Glebe Community Health Centre
- Herbert St Drug and Alcohol Services
- Merrylands Community Health Centre
- Penrith Living Skills Centre
- Royal North Shore Hospital Pain Clinic
- Royal North Shore Sexual Health Clinic
- Ryde Hospital and Community Health Services
- Sydney Hospital Sexual Health Clinic
- Westmead Hospital Brain Injury Unit

Country
- Cooma Community Health Centre, Mental Health Team
- Southwest Brain Injury Rehabilitation Service, Albury
- Tamworth Base Hospital

Private Hospitals
- St Edmonds Private Hospital
- "Carrawarra" Brain Injury Unit, St John of God Hospital, Goulburn

Commonwealth Government Departments and Agencies

Commonwealth Rehabilitation Service

Metropolitan Units
- Ashfield; Bankstown; Blacktown; Darlinghurst; Dee Why;
- Epping; Granville South; Granville Vocational Unit;
- Hurstville; Liverpool; Maroubra; Miranda; Mt Druitt;
- Parramatta; Rockdale

Country/Interstate Units
- Albury; Armidale; Dubbo; Gosford; Lismore; Maroochydore,
- Qld; Moree; Newcastle; Port Macquarie; Queanbeyan;
- Southport, Qld; Tamworth; Toowong, Qld; Wollongong;
- Wyong

Community Agencies and Private Organisations

Metropolitan
- Active Employment Parramatta
- Amputee Association, Greenacre
- ANCORW, Auburn
- ARAFM
- Australia Post
- Bosnian Information and Welfare Centre, Lidcombe
- Burwood City Council
- CARE Nautilus Project, Croydon
- Combrook Pty Ltd
- CMS Rehabilitation, Bankstown
- Eastern Suburbs Learning Centre
- Epilepsy Association
- GROW
- ICFA, Bondi
- Life After Prison Inc, North Parramatta
- Mission Employment Mt Druitt
- Multiple Sclerosis Society, Lidcombe
- Natoa, Sydney City
- NSW Ambulance Service
- NSW Police Service
- Occupational Health Professionals, Wetherill Park
- Ozanam
- Re-Employ, Liverpool

STARTTS, Fairfield
- State Transit Authority
- Sydney Employment Development Service
- Syd-West Person nel, Parramatta
- Vocational Capacity Centre, North Sydney
- Wesley Life Skills: Bankstown, Croydon Park, Granville,
  Petersham
- Westworks, Penrith
- Women at Work
- Work Directions Parramatta
- Work Directions Sydney
- Workers' Health Centre, Granville

Country/Interstate
- Blue Mountains Disability Services, Springwood
- CMS Rehabilitation, Newcastle
- Headway Tasmania
- Joint Coal Board, Singleton
- Lotus Glen Correctional Centre, Mareeba Qld
- Mission Employment Katoomba
- Murrumbidgee & District Occupational Health & Rehabilitation Service, Gundagai
- PEP Gosford
- PEP Wyong
- Royal Blind Society, Orange
- Smart Rehabilitation, Wollongong
- Success at Work, Hobart TAS
- Workcover Bundaberg, Qld
- Workcover Gympie, Qld
- Workways, Canberra

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
- Balmain
- Blacktown District
- Blacktown/Mt Druitt Health, Mt Druitt Campus
- Campbelltown
- Canterbury
- Cumberland, Parramatta
- The New Children's Hospital, Westmead
- Fairfield District
- Hawkesbury, Windsor
- Hornsby Ku-Ring-Gai Hospital & Area Health Service
- Liverpool
- Manly Hospital & Community Health Services
- Mona Vale
- Nepean Hospital Penrith
- Prince of Wales, Randwick
- Royal Hospital for Women, Paddington
- Royal North Shore, St Leonards
- Royal Prince Alfred, Camperdown
- Royal Ryde Rehabilitation
- Rozelle
- Ryde Hospital & Ryde-Hunters Hill Area Health Service
- St George, Kogarah
- St Vincent's, Darlinghurst
- Sutherland Hospital Caringbah
- Sydney
Sacred Heart Hospice, Darlinghurst
Westmead
Repatriation General Hospital, Concord
Lady Davidson, Turramurra
Sydney Children’s, Randwick
St. Joseph’s, Auburn
St. John of God, Burwood
Rachel Forster, Redfern

Country/Interstate
Bathurst District
Blue Mountains District
Bowral District Hospital
Central Coast
Coffs Harbour and District Hospital
Dubbo Base
Forbes District
Gosford Hospital
John James Memorial Hospital
Launceston General, Launceston, Tasmania
Lithgow
Lismore Base
Manning Base, Taree
Orange Base
Parkes
Port Macquarie Base
Royal Darwin
Royal Newcastle
Wollongong
Camden
Cooma District
Royal Women’s, Brisbane
The Canberra Hospital
Princess Alexandra Hospital, Brisbane

Overseas
Hospital Authority, Hong Kong
Green Lane National Womens Hospital, Auckland NZ
Singapore General Hospital
UCLA Medical Center, Los Angeles

Private Hospitals and Nursing Homes
Kareena Private
Holroyd Private
The Hills Private
St George Private
St Vincent’s Private, Darlinghurst
Sydney Adventist, Wahroonga
The Poplars, Epping
Mater, Crows Nest
Newcastle Mater, Waratah
Hurstville Community Cooperative, Hurstville
Strathfield Private
St. Margaret’s Private, Darlinghurst
The Scottish Hospital, Paddington

Commonwealth/State Government Departments and Agencies
Central Cancer Registry
Central Coast Area Health Service, Gosford
Central Sydney Health Service, Camperdown
Central West Regional Office, Peak Hill
Cumberland Developmental Disability Service
Department of Community & Health Services, Hobart
Department of Health (NSW), Health Statistics Unit
Hunter Area Health Service, Newcastle
National Centre for Classification in Health
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

Other Organisations
Commonwealth Bank Health Care of Australia
Health Information Management Association of Australia, North Ryde
NHMRC Clinical Trials Centre, The University of Sydney
Veterinary Teaching Hospital, The University of Sydney
3M Health Care Group
Rolls Printing, Bondi
Prime Care Pty Ltd

School of Medical Radiation Technology
The School of Medical Radiation Technology would like to recognise the following clinical centres for their invaluable assistance in the clinical education program.

Diagnostic Radiography
Border Medical Imaging, Albury
Alice Springs Hospital, Alice Springs
Armidale Radiology, Armidale
Ashfield Medical Imaging, Ashfield
Auburn District Hospital, Auburn
Auburn Diagnostic Centre, Auburn
Auburn Ultrascan, Auburn
Bankstown Day Surgery And Specialist Centre, Bankstown
Bankstown District Hospital, Bankstown
Bankstown X-Ray & Ultrasound, Bankstown
Dr K Neale, Bathurst
Bathurst Base Hospital, Bathurst
Baulkham Hills Private Hospital, Baulkham Hills
Bega Hospital, Bega
Act X-Ray Services, Belconnen
Belmont Hospital, Belmont
Blacktown Radiology, Blacktown
Blacktown District Hospital, Blacktown
Blacktown X-Ray Centre, Blacktown
Sydney X Ray, Bondi Junction
Bourke Hospital, Bourke
Broken Hill Hospital, Broken Hill
Calvary Hospital, Bruce
Bulli District Hospital, Bulli
South West Imaging, Cabramatta
Camden Hospital, Camden
Campbelltown Hospital, Campbelltown
Lim & Associates, Campbelltown
Royal Prince Alfred Hospital, Camperdown
Canterbury District Hospital, Campsie
Campsie Imaging, Campsie
Sutherland Hospital, Caringbah
Caringbah C T, Caringbah
Castle Hill Radiology Centre, Castle Hill
Cessnock District Hospital, Cessnock
Coffs Harbour District Hospital, Coffs Harbour
Concord Repatriation General Hospital, Concord
St Vincent's Hospital, Darlinghurst
St Vincent's Private Hospital, Darlinghurst
John James Hospital, Deakin
<table>
<thead>
<tr>
<th>Facility Name</th>
<th>Location</th>
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<tbody>
<tr>
<td>Dee Why X-Ray And Ct, Dee Why</td>
<td>Sydney</td>
</tr>
<tr>
<td>Dubbo Base Hospital, Dubbo</td>
<td>Newcastle</td>
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<tr>
<td>Orana Radiology, Dubbo</td>
<td>Newcastle</td>
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<tr>
<td>Eastwood X Ray Centre, Eastwood</td>
<td>Newcastle</td>
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<tr>
<td>Act X-Ray Services, Erindale</td>
<td>Sydney</td>
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<tr>
<td>Fairfield X-Ray, Fairfield</td>
<td>Sydney</td>
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<tr>
<td>Frenchs Forest X Ray, Frenchs Forest</td>
<td>Sydney</td>
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<tr>
<td>Gold Coast Hospital, Gold Coast</td>
<td>Gold Coast</td>
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<tr>
<td>Gosford District Hospital, Gosford</td>
<td>Lismore</td>
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<tr>
<td>Gosford Radiology Centre, Gosford</td>
<td>Lismore</td>
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<tr>
<td>Goulburn Hospital, Goulburn</td>
<td>Lismore</td>
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<tr>
<td>Clarence Valley Imaging, Grafton</td>
<td>Sydney</td>
</tr>
<tr>
<td>Graffon Base Hospital, Grafton</td>
<td>Sydney</td>
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<tr>
<td>City Medical Imaging, Haymarket</td>
<td>Sydney</td>
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<tr>
<td>Hornsby &amp; Ku-Ring-Gai Hospital, Hornsby</td>
<td>Sydney</td>
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<tr>
<td>Hurstville X-Ray &amp; Ultrasound, Hurstville</td>
<td>Sydney</td>
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<tr>
<td>Blue Mountains District Hospital, Katoomba</td>
<td>Sydney</td>
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<tr>
<td>Kempsey Hospital, Kempsey</td>
<td>Sydney</td>
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<tr>
<td>St George Hospital, Kogarah</td>
<td>Sydney</td>
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<tr>
<td>St George Imaging Centre, Kogarah</td>
<td>Sydney</td>
</tr>
<tr>
<td>Lakemba X Ray Centre, Lakemba</td>
<td>Sydney</td>
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<tr>
<td>Launceston General Hospital, Launceston</td>
<td>Sydney</td>
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<tr>
<td>Lidcombe Hospital, Lidcombe</td>
<td>Sydney</td>
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<tr>
<td>Lismore Base Hospital, Lismore</td>
<td>Sydney</td>
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<tr>
<td>North Coast Radiology, Lismore</td>
<td>Sydney</td>
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<tr>
<td>Lithgow District Hospital, Lithgow</td>
<td>Sydney</td>
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<td>Liverpool Hospital, Liverpool</td>
<td>Sydney</td>
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<tr>
<td>Rayscan Imaging, Liverpool</td>
<td>Sydney</td>
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<tr>
<td>Ultrascan, Liverpool</td>
<td>Sydney</td>
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<tr>
<td>Manly District Hospital, Manly</td>
<td>Sydney</td>
</tr>
<tr>
<td>Merrylands X-ray Centre, Merrylands</td>
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<td>Miranda Imaging, Miranda</td>
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<td>Mona Vale Hospital, Mona Vale</td>
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<td>Moree Hospital, Moree</td>
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<td>Mt Druitt Hospital, Mt Druitt</td>
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<td>Castlereagh Radiology, Mt Druitt</td>
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<td>Ultrascan, Mt Druitt</td>
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<td>John Hunter Hospital, Newcastle</td>
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<td>Dr Whistler &amp; Lee, Nowra</td>
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<td>Parramatta Imaging, Nth Parramatta</td>
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<td>Orange Base Hospital, Orange</td>
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<td>Castlereagh Radiology, Penrith</td>
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<td>Hastings District Hospital, Port Macquarie</td>
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<td>Queenbeyan District Hospital, Queenbeyan</td>
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<td>Act X Ray, Queenbeyan</td>
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<td>Prince Of Wales Hospital, Randwick</td>
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<td>Revesby X Ray Centre, Revesby</td>
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<td>Shellharbour District Hospital, Shell Harbour</td>
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<td>Royal North Shore Hospital, St Leonards</td>
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<td>North Shore Medical Centre X-Ray, St Leonards</td>
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<td>Strathfield Imaging Centre, Strathfield</td>
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<td>Sutherland Hospital, Sutherland</td>
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<td>Sydney Hospital, Sydney</td>
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<td>Tamworth Base Hospital, Tamworth</td>
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<td>Manning Base Hospital, Taree</td>
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<td>Townsville Hospital, Townsville</td>
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<td>Sydney Adventist Hospital, Wahroonga</td>
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<td>Port Kembla District Hospital, Warrawong</td>
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<td>Dr Hudson &amp; Partners, Wentworthville</td>
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<td>Westmead Hospital, Westmead</td>
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<td>Royal Alexandra Hospital For Children, Westmead</td>
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<td>Wonoona X-ray, Wonoona</td>
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**Radiation Therapy**

- Sydney Adventist Hospital
- Central Coast Radiation Oncology Centre
- Liverpool Hospital
- Prince of Wales Hospital
- Royal Hobart Hospital
- Royal North Shore Hospital
- Royal Prince Alfred Hospital
- St George Hospital
- St Vincents Hospital
- Sydney Radiotherapy and Oncology Centre
- Westmead Hospital
- Wollongong Hospital

**Nuclear Medicine**

- Allamander Priv. Hospital
- Ashley Centre
- Auburn Nuclear Medicine
- Bankstown Lidcombe Hospital
- Brisbane Waters Private Hospital
- Burwood Nuclear Medicine
- Central Coast Nuclear Medicine
- Central West Nuclear Medicine
- Dee Why Nuclear Medicine
- Diagnostic Nuclear Medicine RPAH Medical Centre
- Dr Reg Hutchinson, Bondi Junction
- Dubbo Private Hospital
- Guy's Hospital, UK
- Holy Spirit Medical Imaging, Brisbane
- Hornsby Hospital
- Hornsby Kuringai Nuclear Medicine
- Hurstville Community Cooperative Hospital
- Illawarra Nuclear Imaging
- John Hunter Hospital, Newcastle
- Isotope Imaging, WA
- John James Hospital, ACT
- Launceston General Hospital, TAS
- Liverpool Hospital
- Mater Private Hospital
- Missenden Medical Centre,
  Nuclear Medicine and Ultrasound Associates, Penrith,
  Wollongong Hospital
- North Coast Nuclear Medicine
- Nth Coast Radiology, Lismore
- Orange Base Hospital
- PET Centre, A7 RPAH
- Port Macquarie Medical Imaging Hermitage Building
- POWH
- Queensland X ray Services
School of Occupation and Leisure Sciences

The School of Occupation and Leisure Sciences wishes to acknowledge the following agencies for their valuable contribution to the 1998 Fieldwork Program for its students in the Bachelor of Applied Science (Leisure and Health) and the Bachelor of Applied Science (Occupational Therapy).

Aged Care Assessment Team, Kurri Kurri
Aged Community Service Team
"Amees" Dementia Day Care Centre - Fairfield
Anglican Retirement Village - Castle Hill
Ashfield Community Health Centre
Auburn Aged Day Care Centre, Auburn
Auburn/Holroyd School Therapy Team - Guildford
Auburn Hospital
Aldersgate House Nursing Homes
Allowah Babies, Dundas
Alwyn Rehabilitation, Strathfield
Alice Betteridge School
Anna Maria Nursing Home, Putney
Armon Nursing Home, Petersham
Balmain Hospital
Banksia House
Bankstown Hospital
Bankstown Community Resource Team
Bankstown Community Health Centre
Bankstown Department of Community Services
Beecroft Nursing Home
Bethany Nursing Home, Eastwood
Bethel Nursing Home, Ashfield
Birdwood Road Day Care Centre, Georges Hall
Blacktown District Hospital
Blacktown City Mental Health Service
Blacktown Community Services Centre
Bosley Park Nursing Home
Botany Community Health Centre
Braeside Hospital
Bridgeway House Living Skills Centre

Brookvale Living Skills Centre
Buckingham House - Surry Hills
Bundara Psychiatric Rehabilitation Service
Calvary Hospital (ACT)
Calvary Hospital - Kogarah
Camden District Hospital
Campbelltown Hospital
Campbelltown Mental Health Service
Canterbury Area Health Service
Canterbury Hospital
Canterbury Intensive Community Support Services
Caringbah Community Health Centre
Canterbury Aged Services (Campie)
Central Sydney Community Drug and Alcohol Service
Centrycare Early Intervention Team
Chalmers Road Public School, Strathfield
Chatswood Community Health
Chatswood Community Nursing Home
Chatswood Day Centre
Chesalon Nursing Home, Jamnali
Chester Hill Neighbourhood Centre
Child Health and Development Service
Commonwealth Government Departments and Agencies
Commonwealth Rehabilitation Service
Community Services Centres
Concord Hospital
Condell Park Residential Service
Convalescents, Camden
Crisis Assessment and Treatment Team, Newcastle
Croydon Living Skills Centre
Cumberland Hospital
Cumberland College
Dalcross Private Hospital - Killara
Department of Community Services
Developmental Disability Service - Mt Druitt
Dorothy Henderson Lodge, Marsfield
Dickson Day Centre, ACT
Dixson Unit Geriatric and Rehabilitation Unit - Ryde
Dubbo Base Hospital
Early Education Programme - Sydney City Mission
Eastern Suburbs Private Hospital - Randwick
Eastern Respite and Recreation
Early Intervention Team - Waverley
Eldermatta Lodge, Mosman
Endeavour Nursing Home, Springwood
Evesham Clinic, Cremorne
Eversleigh Hospital
Eversleigh Hospital - Palliative Care
Fairfield District Hospital - Rehabilitation Unit
Fairfield Living Skills
Frank Vickery Village, Sylvania
Frank Whiddon Masonic Homes, Glenfield
Garrawarra Centre for Aged Care
Gertrude Aboot Nursing Home, Surry Hills
Gladesville - Macquarie Hospital
Glebe Community Care Centre
Gowrie Village
Governor Phillip Special Hospital - Penrith
Government Departments and Agencies
Graftwhaitre Nursing Home
Greystanes Children's Home
Greenwich Hospital
Greenhouse Living Skills Centre
Guildford Neighbourhood Centre  
Halinda School, Emerton  
Hand in Hand, Waitara  
Headway Adult Development Program - Bankstown  
Hevington House Day Care, Auburn  
Holroyd Disabilities Service  
Hornsby Ku-Ring-Gai Hospital and Area Health Service  
Hunter Aged Care Assessment Team  
Independent Living Centre  
Ingleburn Area Health  
IRS Total Injury Management - North Parramatta  
James Milson Nursing Home, Surry Hills  
John Hunter Hospital  
John Williams Therapy Centre - Wahroonga  
Kalparrin, Concord Hospital - Ward 18  
Kalinda Living Skills  
Karradji - Ryde Community Mental Health - Eastwood  
Kilbride Nursing Home, Campbelltown  
Killarney Court Hostel  
Kindian Frail Aged & Respite Day Centre  
Lady Davidson - North Turramurra  
Lakes Rehabilitation Team  
Laurel House - Parramatta  
Leisure World Nursing Home/Moonby House Nursing Home, Peakhurst  
Liverpool Department of Community Services  
Liverpool Health Service  
Liverpool Hospital  
Liverpool Living Skills  
Living Skills Centre - Wahroonga  
Lottie Stewart Hospital - Dundas  
Lower Hunter Community Health Centre  
Lower North Shore Supported Housing Services - Castlecrag  
Macarthur Home Modifications, Campbelltown  
Macarthur Paediatric O.T., Camden  
Maclean CHC MacLean Hospital  
Macquarie Hospital  
Manly Hospital and Community Health Service  
Manly-Warringah Developmental Disability Service  
Marsden Centre  
Marsden Hospital  
Marsh Occupational Health  
Marrickville District School Therapy Team - Lakemba  
Mater Misericordiae Hospital - Waratah  
Mater Dei School - Camden  
Metropolitan Rehabilitation Private Hospital - Petersham  
Mobile Community Management Team  
Mona Vale Hospital and Warringah Area Health Service  
Montefiore Jewish Home  
Mt Druitt Community Health Service  
Mt Druitt Hospital  
Mount Wilga - Hornsby  
Multiple Sclerosis Society of NSW, Lidcombe  
Myrtle Cottage Group  
Neringah Hospital - Wahroonga  
Nepean Hospital - Penrith  
New Ellamatta Lodge - Mosman  
Northcott Society  
Northaven Retirement Village, Turramurra  
Northern Beaches Community Resource Team - St. Leonards  
N.S.W. Society for Children and Young Adults with Physical Disabilities  
N.S.W. Department of Sport, Recreation and Racing  
Our Lady of Consolation, Rooty Hill  
Parkdale Nursing Home, Waverley  
Pecky's Playground, Prospect  
Penrith Community Services Centre  
Prairiewood Community Health Centre - Wetherill Park  
Prince Henry Hospital - Little Bay  
Prince of Wales Hospital - Randwick  
Princess Juliana Lodge  
Qualitec Ltd - Granville  
Queenscliff Health Centre - Manly  
Rachel Foster - Redfern  
Rehabilitation Module - Marrickville  
Redfern Community Health Centre  
Rehabilitation Module, Marrickville  
Rehabilitation Resource Team - Chatswood  
Resolutions Health Management - Glebe  
Restart Consulting - Double Bay  
Royal Alexandra Hospital for Children  
Royal Blind Society of NSW  
Royal North Shore Hospital - St Leonards  
Royal N.S.W. Institute of Deaf and Blind  
Royal Prince Alfred Hospital - Camperdown  
Royal Rehab Centre - Ryde  
Rozelle Hospital  
RSI Veterans’ Village  
Rydalmere Centre (Western Sydney Developmental Disability Service)  
Ryde Hospital and Ryde-Hunters Hill Area Health Service  
Ryde Rehabilitation Centre  
St George (Sacred Heart Hospice)  
St George Division of Mental Health  
St George Hospital - Kogarah  
St George Living Skills  
St George School, Rockdale  
St Joseph’s-Auburn  
St Kevins School - Dee Why  
St Vincent’s Hospital - Darlington  
Sanc Souci Retirement Hostel  
Sacred Hearts Hospice  
Sailability Australia  
Shalom Hostel and Nursing Home for Aged, Marsfield  
Sir Eric Woodward Special School  
South Sydney Hospital  
Southern Cross Homes, Merrylands  
Southcare - Miranda  
Southcare Community Rehabilitation Team - Sutherland  
Spastic Centre of NSW  
Stockton Centre  
Strickland Villa, Prince of Wales Hospital  
Sutherland Community Rehabilitation Team  
Sutherland Hospital  
Sutherland Living Skills Centre  
Sydney Hospital Hand Unit  
Sydney Hospital Occupational Health & Safety  
Sylvania Community Health Centre  
Sylvania School, Kirrawee  
Technical Aid to the Disabled - Ryde  
The Autistic Association  
The Clubhouse, Balgowlah  
The Cottage Family Care Centre - Campbelltown  
The Hills Community Health Centre - Castle Hill  
The Hills District School for Special Purposes, Northmead  
The Greenhouse - East Sydney  
The Palms Nursing Home, Kirrawee  
The New Children’s Hospital, Westmead
Total Rehabilitation Service
Trentham Nursing Home, Willoughby
Tuggeranong Seniors Centre
Wade-Lyn Nursing Home, Hurstville
War Memorial - Waverley
Waratah Nepean Developmental Disability Service
Waverley Community Health Centre
Waratah Nepean Developmental Disability Service (Hunter Orthopaedic School
Weemala, Ryde Rehabilitation Hospital
Weeroonga Training, Recreation & Resource Centre - Brookvale
Western Area Adolescent Assessment Team - Mt Druitt
Wesley Gardens Retirement Village, Belrose
Wesley - Ashfield
Westmead Hospital
Wicks Living Skills Centre
Wontama Day Centre
Yallambi Nursing Home for Aged Ladies
Yarrawarra Living Skills Centre - Bankstown

Community Agencies and Private Organisations

Country
ACT Rehabilitation Service
Aged Care Assessment Team, Kurri Kurri
Aged Care Advisory Service - Wagga Wagga
Albury Base Hospital
Albury Mercy Hospital
Albury Community Health
Anne Crane (Private Practice) - Bonville (Coffs Harbour
Armidale Community Services Centre
Armidale and New England Hospital
Ballina Hospital
Baringa - Fairy Meadow
Baringa Private Rehabilitation Hospital - Coffs Harbour
Bathurst Brain Injury Unit
Bathurst Rehabilitation Centre
Bathurst Aged Care Team
Bega Community Health Centre
Belconnen Health Centre, ACT
Bellingen River and District Hospital
Belmont District Hospital
Berkley Vale Private Hospital
Blue Mountains District Memorial
Blue Mountains District Health Service
Bowral & District
Bowral Community Health Centre
Bulli Community Health Centre
Broken Hill Base Hospital
Byron Bay Primary Care
Calvery Hospital ACT (Inc)
Camden District Hospital
Campbell Hospital - North Coast - Coraki
Campbelltown Hospital
Canberra Occupational Therapy Services
Carrington Centennial Hospital
Casino Community Health Centre
Central Coast Area Health Service
Cessnock Base Hospital
Civic Regional Unit - ACT
Coffs Harbour Base Hospital
Coledale District Hospital
Commonwealth Rehabilitation Service
Cootamundra Hospital
Coorabell Hospital
Cowra District Hospital
Crisis Assessment and Treatment Team - Newcastle
Child Assessment & Intervention Team "Kids Cottage"
Child Development Unit - Goulburn
Coffs Harbour Rehabilitation
Community Disability Service - ACT
Community Medicine Services - Toowoomba
Community Mental Health - Goulburn Base Hospital
Community Resource Team
Community Service Centre - Lismore
Cooma Hospital
Department of Community Services
Department of Family Services - Toowoomba
Doc's - Glen Innes
Deniliquin Community Health
Department of Social Security - Coffs Harbour
Dickson Day Centre - ACT (Dickson Seniors Network)
Dubbo Community Health Centre
Eastlakes Community Health Centre - Windale
Extended Care - Orange
Figtree School - WoUongong
Fred McKay Day Care Centre - Alice Springs
Finley Community Health
Forbes District Hospital
Glen Innes Community Health Centre
Goulburn Base Hospital
Griffith Base Hospital
Gunnedah District Hospital
Hastings District Hospital
Hastings District Health Services
Hevington House Special Day Care
Hunter Rehabilitation Service - New Lambton
"Homeleigh" - WoUongong Cwealth Rehab. Service
Worksite O/T - The Junction
Health Centre - New Town (TAS)
Hobart Repat & General Hospital - Battery Point (TAS)
Interact Injury Management - Orange
Ilawarra Occupational Health - WoUongong
Ilawarra Child Development Centre - North WoUongong
Ilawarra Regional Hospital (Port Kembla Campus
Ilawarra Regional Hospital (WoUongong Campus)
Individual Development Centre - Balgownie
IRS Total Injury Management - Orange
IRS-Hamilton
IRS - WoUongong
IRS-Perth
James Fletcher Hospital - Newcastle
John Hunter, Hospital
Joint Coal Board - Warners Bay, Singleton
Katoomba Area Health Centre
Kempsey District Hospital
Kiama District Hospital
Kiama Health Support Service
Kirra Centre - ACT
Kurpinta Living Skills Centre - Newcastle
Kurri Kurri
Launceston General Hospital
Lawrence Hargrave Hospital - Thirroul
Lincoln School of Health Services - Carlton - Victoria
Lismore Base Hospital
Lismore Living Skills Centre
Lithgow District Hospital

Clinical Education (Fieldwork/Professional Experience)
Lourdes - Dubbo
Macksville Hospital
Maitland Hospital
Mandala Clinic - Central Coast
Maneen House Living Skills Centre - Mangerton
Mater Misericordiae Hospital - Sth Brisbane
Mental Health Team - Albury
Mercy Care - Young
Mercy Hospital - Albury
Metropolitan Reception Prison - Coburg
Mobile Community Management Team
Molong Community Health Centre
Mooee District Hospital
Moruya Community Health
Mullumbimby Primary Care
Muswellbrook District
Nelson Bay Community Health
Nepean School Age Therapy Team - Penrith
North Gosford Private Hospital
Newcastle East Community Health Service - Newcastle
Noah's Ark - Nowra
Northern Territory Student Services - Darwin
Nowra Community Hospital
Orana Community Health Centre, Dubbo
Orange Base Hospital
Pambula Community Health
Parkes Hospital
"Peacock" - North Hobart
Port Macquarie
Psychiatric Rehabilitation Service - ACT
QEIi Jubilee Hospital - Sunnybank
Queanbeyan District Hospital
Rankin Park
Riverland Community Health Services - Berri
Royal Adelaide, South Australia
Royal Children's Hospital - Parkville
Royal Hobart Hospital
Royal Park Psychiatric Hospital - Parkville
Royal Newcastle Hospital
Shellharbour Hospital - Mt Warragul
Shoalhaven District Memorial Hospital - Nowra
Soldiers Memorial Hospital - Canowindra
South Coast Workers' Medical Centre - Wollongong
Specialist Adult Health Services - Casuarina
Stanbridge, White & Associates - Wagga Wagga
St John of God Hospital - Goulburn
St Vincents Hospital - Lismore
Stuart Centre - Valentine
Tamworth Base Hospital
Tangara School for Special Purposes - Mittagong
Territory Health Services - Casuarina
The Campbell Hospital
Toowoomba General Hospital - Queensland
Toowoomba Intellectual Disability Services
Townsville General Hospital
Tweed Heads District Hospital & Health Services
Tuggeranong Seniors Centre
Tumut Community Health
University of Queensland - St. Lucia
Wagga Wagga Base Hospital
War Memorial Hospital - Cudal
Wellington District Hospital
Wingham Assessment & Rehabilitation

Woden Valley Hospital
Wodonga District Hospital
Wolston Park Hospital - Walcot
Woodstock Centre - Lavington

Overseas
Astley Ainslie Hospital Edinburgh - Scotland
Department of Rehabilitation-National University Hospital - Singapore
Duchess of Kent Children's Hospital - Hong Kong
Leicester Royal Infirmary - England
Margaret Drive Special School - Singapore
Michigan Hand Rehabilitation Centre - U.S.A.
Nether Edge Hospital - Sheffield - England
Pinderfields General Hospital - England
St Joseph Hospital - U.S.A.
Scottish Hospital
Scottish Hospital, Aged Care Centre
The Arthritis Society - Vancouver
Woodbridge Hospital - Singapore

School of Physiotherapy
The School of Physiotherapy wishes to acknowledge the vital function performed by physiotherapists who undertake the clinical education of its undergraduate students. These Clinical Educators are located in clinical units in New South Wales and interstate.

Public Hospitals
Metropolitan
Auburn District
Balmain
Bankstown-Lidcombe
Blacktown District
Campbelltown
Canterbury
Concord
Fairfield District
Greenwich
Hornsby Kuring-Gai Hospital & Area Health Service
Lady Davidson, North Turramurra
Liverpool
Lottie Stewart
Manly Hospital & Community Health Service
Mt Druitt
Mona Vale
New Childrens Hospital
Prince Henry, Little Bay
Prince of Wales, Randwick
Rachel Forster, Redfern
Royal Hospital for Women, Paddington
Royal North Shore, St Leonards
Royal Prince Alfred, Camperdown
Ryde
St George, Kogarah
St Josephs, Auburn
St Vincent's, Darlinghurst
Sutherland Hospital, Caringbah
Sydney
Sydney Childrens Hospital
War Memorial, Waverley
Westmead
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<th>Non Sydney Metropolitan/Country/Interstate</th>
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<tr>
<td>Albury Base</td>
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<td>Bulli District</td>
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<td>Calvary Hospital, Canberra</td>
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<td>Coffs Harbour and District</td>
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<td>Coledale District</td>
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<td>Cooma Base</td>
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<td>Dubbo Base</td>
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<td>Gold Coast Hospital</td>
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<td>Gosford District</td>
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<td>Griffith Base</td>
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<td>“Homeleigh” WoUongong Community Rehabilitation Centre</td>
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<td>Illawarra Regional Hospital (WoUongong and Port Kembla Campuses)</td>
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<td>John Hunter</td>
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<td>Manning Base, Taree</td>
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<td>Mater Misericordiae, Newcastle</td>
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<td>Mercy Care Centre, Young</td>
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<tr>
<td>Mudgee District</td>
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<td>Nepean</td>
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<tr>
<td>Orange Base</td>
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<td>Parkes</td>
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<td>Port Macquarie &amp; Hastings District</td>
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<td>Repatriation General, Hobart</td>
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<td>Royal Newcastle</td>
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<td>Shellharbour</td>
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<td>Shoalhaven District Memorial, Nowra</td>
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<td>St Vincent's, Lismore</td>
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<td>Tamworth Base</td>
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<td>Wagga Wagga Base</td>
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<th>Private Hospitals and Nursing Homes</th>
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<tr>
<td>Mt. Wilga Private Hospital</td>
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<td>Sacred Heart Hospice</td>
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<td>Sydney Adventist Hospital</td>
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<tr>
<td>ACT Community and Health Department (Infant and Child Services)</td>
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<tr>
<td>Australian Institute of Sport (ACT)</td>
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<tr>
<td>Belconnen Health Centre (ACT)</td>
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<tr>
<td>Commonwealth Rehabilitation Service</td>
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<td>H.M.A.S. Penguin</td>
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<td>RAAF Richmond</td>
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<th>State Government Department and Agencies</th>
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<tr>
<td>Department of Community Services</td>
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<td>- Bexley</td>
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<td>- Illawarra</td>
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<th>Community Agencies and Private Organisations</th>
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<td>Anglican Retirement Villages (MOWLL)</td>
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<tr>
<td>Cumberland Health &amp; Research Centre</td>
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<tr>
<td>Hawkesbury District Health Service</td>
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<td>Merrylands Community Health Centre</td>
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<tr>
<td>Multiple Sclerosis Society of NSW (Lidcombe)</td>
</tr>
<tr>
<td>Royal Institute for Deaf &amp; Blind Children</td>
</tr>
<tr>
<td>- The Alice Betteridge School</td>
</tr>
<tr>
<td>Spastic Centre (Ryde, Allambie Heights)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Private Practitioners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albert Alonso</td>
</tr>
<tr>
<td>Ian Austin</td>
</tr>
<tr>
<td>David Bick</td>
</tr>
<tr>
<td>Peter Buffen and Denny Shearwood</td>
</tr>
<tr>
<td>Sue Cockcroft &amp; Melinda Johnson</td>
</tr>
<tr>
<td>Merryn Cooper</td>
</tr>
<tr>
<td>Maria De Sousa &amp; Heather Marr-Wyllie</td>
</tr>
<tr>
<td>Gary Eastburn</td>
</tr>
<tr>
<td>Sally Ewin</td>
</tr>
<tr>
<td>Joel Werman</td>
</tr>
<tr>
<td>Judith Furey</td>
</tr>
<tr>
<td>Beverley Giovannelli &amp; Kenneth Raupach</td>
</tr>
<tr>
<td>Julie Godfrey</td>
</tr>
<tr>
<td>Lesley Goff &amp; Larry Wicks</td>
</tr>
<tr>
<td>Suzanne Jones &amp; Ashton Lucas</td>
</tr>
<tr>
<td>Peter Knapman</td>
</tr>
<tr>
<td>Sue Lovelock</td>
</tr>
<tr>
<td>Gae Milazzo</td>
</tr>
<tr>
<td>Amanda Mussett &amp; Tracey Powell</td>
</tr>
<tr>
<td>Louise O'Connor &amp; Roger Fitzgerald</td>
</tr>
<tr>
<td>Grant Pleffer</td>
</tr>
<tr>
<td>Neil Potter</td>
</tr>
<tr>
<td>Jeff Pross</td>
</tr>
<tr>
<td>Rosemary Pross</td>
</tr>
<tr>
<td>Phillip Richardson</td>
</tr>
<tr>
<td>John Roberts</td>
</tr>
<tr>
<td>Keiran Rooney</td>
</tr>
<tr>
<td>Greg Sheather</td>
</tr>
<tr>
<td>Elizabeth Steet &amp; Mark Bevan</td>
</tr>
<tr>
<td>Colin Thompson</td>
</tr>
<tr>
<td>Lisa Tomlinson-Alonso</td>
</tr>
<tr>
<td>Beverley Trevithick</td>
</tr>
<tr>
<td>Margaret Turner</td>
</tr>
<tr>
<td>Graham Vankan &amp; Jenny Aiken</td>
</tr>
<tr>
<td>Gordon Waddington</td>
</tr>
<tr>
<td>Hilary Waldman</td>
</tr>
<tr>
<td>Sandra Walker</td>
</tr>
<tr>
<td>Stuart Waters</td>
</tr>
<tr>
<td>Carolyn Young</td>
</tr>
<tr>
<td>David Young</td>
</tr>
</tbody>
</table>

Clinical Education (Fieldwork/Professional Experience)
17 Facilities and Services

Bookshop
The University Co-operative Bookshop operates a branch on the Cumberland campus. Situated at the ground level of the Student Guild, the Bookshop holds all prescribed texts and various stationery and software items.

Childcare
An on-campus child care centre for children aged between 0 - 6 years is available. For further information call 9 749 7575.

Counselling Service
A counselling service is provided through Student Welfare Services to assist students who wish to discuss concerns of a personal, academic or vocational nature. The service is free and confidential. The Counsellor, a counselling psychologist, is located in A005 in A Block. Students who wish to make an appointment with the Counsellor can telephone 9 351 9473, or book an appointment directly by writing in a time slot on the door. Appointments outside normal hours are available for students on clinical placements or who are studying part-time. Students can also arrange to see a counsellor at the Counselling Service on the Camperdown campus by calling 9 351 2228.

Credit Union Facilities
The Unicom Credit Union Ltd has an agency with an automatic teller machine on campus. The agency is open on Thursdays, between 12.00 noon and 2.00 pm.

Cumberland Student Guild
At enrolment all students pay for membership to the Student Guild, a student representative body. As Guild members, Cumberland students can access either SUPRA (postgraduates) or SRC (undergraduates) on Camperdown Campus and claim associate membership of the relevant sports association, either SUWSA (women) or MSU (men).

Guild Facilities
The following facilities are provided on campus by the Guild:
- Guild Cafeteria
- JDV Coffee Shop and Bar
- Guild Service Centre (Agent for Australia Post)
- Computer Lab and Photocopy Centre
- Guild Sports Centre
- Food and drink vending machines around campus.

Guild Office
Advice on Guild programs and facilities is available at the Guild Service Centre, located in the Guild Shop, open daily during semesters from 8.30am to 6.00pm. Enquiries can be made on 9 351 9099, or fax 9 351 9971. The Guild is the authorised uniform supplier for the Schools of Occupational Therapy, Orthoptics and Physiotherapy, and the Faculty of Nursing (Cumberland).

Student Representation
The Guild supports student representatives on various Faculty committees, and also individuals and student groups on academic rights issues. The Guild's Management Committee represents the interests of all students on campus. Any student can nominate for election as a student representative.

Student Resources and Support Services
These include:
- The Resource Officer (and a Discrimination Adviser), located on level 3, Guild Building, helps with Youth Allowance and Austudy matters, academic appeals and Show Cause submissions, as well as welfare matters.
- The Activities/Sports and Recreation Officer, who manages the 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 cost 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 monthly student newspaper, Corpus Callosum, the Clubs and Societies Manual and the Student Guild Diary.
- The Guild website is located at http://www.csg.org.au and offers further details on many of the services mentioned above. Alternatively the Guild can be emailed at contact@csg.org.au

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.

Disability Services
Students with disabilities or other special needs are assisted by the Disabilities Officer, Student Welfare Services. The Faculty has numerous resources to assist students, and a professional interest and commitment to provide high quality services. Consultations are confidential.

Students with disabilities are strongly advised to inform University staff of their needs as early as possible each academic year. A disability might be apparent or invisible, and might range from very slight to severe. It could be a physical, sensory, psychological, medical, or learning disability, or a combination of these. Students can experience difficulty meeting their educational commitments because of the educational disadvantage created by a disability. A variety of support services are available including notetakers, scribes, special examination arrangements, library facilities including the Special Study Room, and equipment for use and loan. Such assistance can minimise the disadvantage that might otherwise occur.
In the first instance, students are invited to contact Student Welfare Services on 9 351 9638 or 9 351 9081 for a consultation on what support services they need, for information on what assistance is available, and for guidance on University procedures. Students may wish to have a confidential discussion initially with the student counsellor by telephoning directly on 9 351 9473.

**English Language Tuition**

The tutors who work in the Language and Learning Unit of Student Welfare Services provide supplementary and concurrent tuition in English for Academic Purposes and English for Clinical Placements for any student enrolled on Cumberland campus. This service is in the form of weekly lunchtime workshops and one-to-one tutorials and is particularly valuable for both international and local students whose first language is not English. Preparatory courses are offered to students who have accepted a place in the Faculty in January-February prior to the start of the academic year. The Language and Learning Unit tutors are also trained in cross-cultural communication. This enables them to assist native speakers of English (staff or students) in communicating clearly with those who speak English as a second language. The above services are only for enrolled students. Applicants who require preparatory courses to raise their English language proficiency to a level high enough to enter the University will need to study elsewhere before applying. Enquiries are welcome. Telephone the Language and Learning Unit directly on 9 351 9631 or 9 351 9319, or reception on 9 351 9638 or fax 9 351 9635.

**Equal Employment Opportunity and Affirmative Action**

The University has an EEO Unit and an EEO and Affirmative Action Management Plan. EEO and Affirmative Action policies are designed to prevent discrimination, promote equity, and work in the interests of target groups who have suffered discrimination in the past. Such groups include Aborigines, women, people from non-English speaking backgrounds and people with mental or physical disabilities.

The campus has its own Cumberland Equity Advisory Committee (CACE) 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 is free from harassment and discrimination in any form and makes available a range of services to ensure fairness and respect. The University of Sydney is committed to ensuring the absence of discrimination on the grounds of sex, pregnancy, race (including colour, ethnic background or national identity), marital status, physical or intellectual impairment, sexual preference, political or religious belief or age.

Further, the University of Sydney is committed to the elimination of all forms of harassment and to providing support to the victims of harassment.

**What is harassment?**

Harassment is any behaviour that is unsolicited and unwanted and as such is offensive. The distress caused by harassment may be intentional or unintentional. Harassment is one form of discrimination and generally occurs when power is improperly exercised to the detriment of a person or group of people.

**What can you do if you are harassed?**

If possible tell the person directly that their behaviour is unacceptable to you and ask them to stop. If this is not appropriate or leads to no improvement then seek advice from a University or Faculty Discrimination Adviser. You may also direct your concerns to senior staff within your School or Department.

**Financial Assistance**

The University's loan scheme provides supplementary assistance, not full support, to students who demonstrate financial hardship. These interest-free loans may be short term for compulsory student fees at the beginning of semester, longer term loans for essential living and study expenses (called Financial Assistance loans), or a very short-term cash loan for an emergency that has arisen that day. All enquiries should be directed to Student Welfare Services, telephone 9 351 9638, where you can pick up an application form and make an appointment for an interview.

**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. For further information please call (02) 9546 7194.

The Faculty's Alumni include all its graduates, ex-staff, ex-students and community friends. Alumni are kept in touch through the Faculty Web site.

All alumni are able to become life members of the Graduate Association on payment of a once-only fee of $50. Members can:

- borrow from the Faculty Library
- make their voice heard on issues affecting the Faculty
- become eligible for a Graduates Association Grant for postgraduate study in the Faculty of Health Sciences.
The Graduates Association offers annually a grant of $1500 to provide financial assistance to a new or continuing student in any course of postgraduate study in the Faculty of Health Sciences. The grant is made over one year for full-time students and over two years for part-time students. Applicants must be members of the Association.

**Health Sciences Library**

The University of Sydney's Cumberland campus maintains its own library to provide resources and support to students, staff and researchers. The Library collection, of approximately 82,000 books and videos and 1,000 journal titles, is particularly oriented towards the health sciences. The library aims to support undergraduate, graduate, and research programs, to provide service and assistance to users, as well as to provide certain general and recreational materials and a pleasant environment for study and research.

The Health Sciences Library is located centrally on campus, in R block, and is accessible to users with physical disabilities. Level 1 includes the Reference collection, current issues of journals, Closed Reserve, the Information desk, the Circulation desk, audio-visual, photocopying, printers, database and Internet facilities, a study room for students with disabilities, Computer Training Room, study areas and the staff work area.

Level 2 contains the main collection of resources, study areas, additional photocopiers, and several group study rooms.

Access to the Library collection is via a user-friendly OPAC (online public access catalogue). Material may be located by author, title, subject or keyword approaches. OPACs are located on both levels of the Library. The catalogue lists all holdings within the University Library system including Fisher Library and eighteen other branch libraries. The catalogue offers many self-service options and can be accessed externally through the Internet.

Extensive computer facilities allow users to make their own literature searches on a wide variety of databases. Many of these offer full text or are interactive. Library staff conduct regular classes in use of the database network, the Internet, and other methods of information gathering.

Distance education students may be eligible for some special benefits which are outlined in a separate booklet. **Information Desk (Phone: 9351 9437)**

Enquiries about any aspect of the Library's services are most welcome.

**Circulation Desk (Phone: 9351 9423)**

Renewals of loans may be made in person or by telephone during library hours. Loans can also be renewed through the Internet. **(Overdue items may not be renewed.)**

**Library hours**

**Semester**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon to Thurs</td>
<td>8.00 am - 10.00 pm</td>
</tr>
<tr>
<td>Fri</td>
<td>8.00 am - 6.00 pm</td>
</tr>
<tr>
<td>Sat</td>
<td>9.00 am - 4.00 pm</td>
</tr>
<tr>
<td>Sun</td>
<td>1.00 pm - 5.00 pm</td>
</tr>
</tbody>
</table>

**Inter-Semester**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon to Fri</td>
<td>9.00 am - 5.00 pm</td>
</tr>
<tr>
<td>Sat and Sun</td>
<td>Closed</td>
</tr>
</tbody>
</table>

For more information about the Library collection and services, including remote access instructions to the OPAC, see the Home Page set up at: [http://www.cchs.usyd.edu.au/Databases](http://www.cchs.usyd.edu.au/Databases)

A detailed list of the various databases available can be found at: [http://www.library.usyd.edu.au/Databases](http://www.library.usyd.edu.au/Databases)

**International Student Advisory Service**

Advisory services for international students and visiting scholars are provided by Student Welfare Services. They include the 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 9351 9634 or fax 9351 9635.

**Language and Learning Unit (LLU)**

The Language and Learning Unit is located in D115 and is part of Student Welfare Services. 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. There is a writing workshop equipped with computers for student use. These can be booked for 2 hour periods. The staff have postgraduate qualifications in education, applied linguistics, foreign languages, cross-cultural communication, and in teaching English as a second language. One-to-one tutorials, regular workshops and seminars on academic, clinical, and professional communication skills are available during semester and in vacations. Schedules are announced from time to time on noticeboards around the campus, and in Corpus Callosum and on the Student Welfare Services web page ([http://www.cchs.usyd.edu.au/sws](http://www.cchs.usyd.edu.au/sws)). 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 9351 9631 or 9 351 9319 or call Student Welfare Services on 9351 9638. The fax number is 9 351 9635.

**Lockers**

A limited number of lockers are available on campus on a first-come-first-served basis. All lockers must be cleared at the end of each semester. The University will not accept responsibility for any item lost from these lockers.

There are also a small number of lockers set aside for the use of students with disabilities located in S and T Blocks. Students wishing to use these lockers should contact Student Welfare Services in the first instance.

**Lost Property**

Property found on campus should be taken to Property Services Division. Lost property is held for a period of three months. If unclaimed after two months, it may be claimed by the finder (not including a member of staff). If it is still unclaimed after a three month period, the University reserves the right to dispose of these items.
Parking

Parking is available on campus for staff; however, places are limited for students and visitors. Parking fees apply and the conditions specified in the parking regulations must be observed. Parking permit applications, and details of the regulations and infringement procedures, are available from Property Services Division. Those requiring access to parking spaces for people with disabilities should contact Student Welfare Services.

Peer Tutoring Service

A register of senior students who have volunteered their services as subject tutors is available in Student Welfare Services. Students wishing to become tutors, or to obtain tutoring in subjects they are having difficulties with, should contact the office to check the register or seek advice. Payment is generally negotiable between parties involved. For information telephone 9 351 9638.

Sporting Facilities (Multi-purpose courts and oval)

Bookings for the multi-purpose tennis, netball and basketball courts must be made with the Student Guild Sports Centre. Bookings for the oval must be made with the Property Services Division.

Student Accommodation

The Student Guild produces an annual Accommodation Guide and Directory, allocates rented rooms to students at Auburn Hospital Nurses’ Home, and in first semester, maintains a housing register in the Guild Office. During the year, accommodation options are advertised on Guild Building noticeboards.

Yannadah

The student residence on the Cumberland campus, Lidcombe, provides accommodation for up to thirty-nine students from outside the greater metropolitan area of Sydney. Application forms are included with course offers. Places are determined by ballot. For information contact the Residential Supervisor on 9 351 9405.

Student Welfare Services (SWS)

Student Welfare Services is concerned with the general welfare of all students on Cumberland Campus. Students may seek advice and assistance on any issue related to or impacting on their academic study, clinical placements, or life on campus. Student Welfare Services mirrors the services provided by Student Services on the Camperdown Campus with the exception of accommodation and casual work which are managed at Cumberland by the Student Guild. Student Welfare Services provides a high level of academic and personal support services through the activities of advising, facilitating, teaching, counselling and mediating in order to assist students to succeed in their studies, and to benefit from and enjoy the University, campus and clinical placement experience. Lecturers are invited to contact Student Welfare Services for further information and to refer students for assistance. Specialised services within Student Welfare Services are the Language and Learning Unit, English language tuition, International Student Advisory Service, Peer Tutoring Service, Disability Services, Financial Assistance, and the Counselling Service (see details under separate headings). Contact numbers are: telephone 9351 9638 and fax 9351 9635, email r.mckenzie@cchs.usyd.edu.au or a.chan@cchs.usyd.edu.au. Office hours are 9.00-5.00 during semester and vacations. Please note: Student Welfare Services will move to A Block (ground floor) during the first half of 1999. Until then, SWS is located in D Block, between the tennis courts and the Sports Centre.

Travel Concessions

Details of travel concessions are available from the Student Enquiry Counter, Administration Building.
18 Senate Resolutions

As at 1 November, 1998

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 Behavioural Health Science (BBHSc)
   (c) Bachelor of Health Science (BHlthSc)
   (d) Master of Applied Science (MAppSc)
   (e) Master of Communication Disorders (MCommDis)
   (f) Master of Health Science (MHlthSc)
   (g) Master of Health Science Management (MHlthSc(Mment))
   (h) Master of Occupational Therapy (MOT)
   (i) Master of Rehabilitation Counselling (MRehabClng)
   (j) 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 Health Science (GradDipHlthSc)
   (c) Graduate Diploma in Rehabilitation Counselling (GradDipRehabClng)
   (d) Graduate Certificate in Health Science (GradCertHlthSc)

3. The Faculty, acting on the recommendation of the Head of School/Department/Centre 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) Exercise and Sport Science
   (b) Health Information Management
   (c) Leisure and Health
   (d) Medical Radiation Sciences
   (e) Medical Radiation Technology
   (f) Occupational Therapy
   (g) Orthoptics
   (h) Physiotherapy
   (i) Speech Pathology.

2. 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) Leisure and Health
   (d) Medical Radiation Sciences
   (e) Medical Radiation Technology
   (f) Occupational Therapy
   (g) Orthoptics
   (h) Physiotherapy
   (i) Speech Pathology.

(1) There shall be three classes of honours, namely Class I, Class II, and Class III.

3. (1) A unit 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 unit' 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 unit in accordance with the assessment criteria prescribed by the Faculty or the school or department concerned.

4. Where in these resolutions a power is given to the Faculty or a head of school/department/centre, subject to any express indication to the contrary or resolution passed by the Faculty, the Faculty or a head of school/department/centre 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 unit or units 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 units 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 units as set out in the following tables.

### TABLE A - EXERCISE AND SPORT SCIENCE

**A.1 - Pass Course (3 year full-time)**

<table>
<thead>
<tr>
<th>Year 1</th>
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<tbody>
<tr>
<td>Psychosocial Aspects of Recreation and Sport</td>
</tr>
<tr>
<td>Body Structure, Homeostasis and Movement I</td>
</tr>
<tr>
<td>Body Structure, Homeostasis and Movement II</td>
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<tr>
<td>Molecules, Food and Energy</td>
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<tr>
<td>Mechanisms of Movement</td>
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<tr>
<td>Muscle Mechanics</td>
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<tr>
<td>Fundamentals of Exercise Science</td>
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<tr>
<td>Quantitative Biomechanics</td>
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<tr>
<td>Selected Studies: (any three from the following)</td>
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<tr>
<td>Fundamental Computer Skills</td>
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<tr>
<td>Data Management and Presentation</td>
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<tr>
<td>Sports First Aid/Trainer</td>
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<tr>
<td>Health Centre Management</td>
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<tr>
<td>Sports Coaching</td>
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<tr>
<td>Performance Analysis</td>
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<table>
<thead>
<tr>
<th>Year 2</th>
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<tbody>
<tr>
<td>Behaviour Modification and Exercise Adherence</td>
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<tr>
<td>Kinesiology and Applied Anatomy</td>
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<tr>
<td>Mechanisms of Injury</td>
</tr>
<tr>
<td>Growth, Development and Ageing</td>
</tr>
<tr>
<td>Motor Control and Learning I</td>
</tr>
<tr>
<td>Motor Control and Learning II</td>
</tr>
<tr>
<td>Biochemistry of Exercise</td>
</tr>
<tr>
<td>Exercise Physiology I</td>
</tr>
<tr>
<td>Exercise Physiology II</td>
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<tr>
<td>Nutrition and Sport Performance</td>
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<table>
<thead>
<tr>
<th>Year 3</th>
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</thead>
<tbody>
<tr>
<td>Exercise Physiology III</td>
</tr>
<tr>
<td>Exercise Testing and Prescription I</td>
</tr>
<tr>
<td>Exercise Testing and Prescription II</td>
</tr>
<tr>
<td>Sports Biomechanics I</td>
</tr>
<tr>
<td>Sports Biomechanics II</td>
</tr>
<tr>
<td>Research Methods</td>
</tr>
<tr>
<td>Exercise and Rehabilitation I</td>
</tr>
<tr>
<td>Exercise and Rehabilitation II</td>
</tr>
</tbody>
</table>

**A.2 - Honours Course (4 year full-time)**

| Year 1 | As for Pass Course |
| Year 2 | As for Pass Course |
| Year 3 | As for Pass Course |
| Year 4 | Honours Thesis |

### TABLE B - HEALTH INFORMATION MANAGEMENT

**B.1 - Pass Course (3 year full-time)**

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Classification I</td>
</tr>
<tr>
<td>Health Information Systems II</td>
</tr>
<tr>
<td>Australian Health Care Systems</td>
</tr>
<tr>
<td>Medical Terminology I</td>
</tr>
<tr>
<td>Medical Terminology II</td>
</tr>
<tr>
<td>Communication</td>
</tr>
<tr>
<td>Professional Experience IA</td>
</tr>
<tr>
<td>Professional Experience IB</td>
</tr>
<tr>
<td>Health Information Systems I</td>
</tr>
<tr>
<td>Microcomputer Applications</td>
</tr>
<tr>
<td>Introduction to Psychology</td>
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<tr>
<td>Introduction to Health Sociology</td>
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<tr>
<td>Basic Human Biology IA</td>
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<tr>
<td>Basic Human Biology IB</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming Logic and Design</td>
</tr>
<tr>
<td>Medical Science I</td>
</tr>
<tr>
<td>Professional Experience II</td>
</tr>
<tr>
<td>Health Informatics</td>
</tr>
<tr>
<td>Database Systems</td>
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</table>
B.2 - Honours Course (4 year full-time)

Year 1 - As for Pass Course

Year 2 - As for Pass Course

Year 3 - As for Pass Course

Year 4

Intermediate Statistics
Research Thesis Part A
Research Thesis Part B

TABLE C - LEISURE AND HEALTH

C.1 - Pass Course (3 year full-time)

Year 1

Introduction to Health Sociology
Psychology I
Sociology of Community and Family
Biological Sciences IA
Biological Sciences IB
Australian Healthcare Services
Leisure in Australia
Introduction to Leisure and Health
Management and Leadership
Creative Arts in Recreation
Programming for Children and Adolescents
Professional Practice I: Communication Skills

Year 2

Clients, Practitioners and Organisations
Psychology of Disability I
Psychology of Disability II
Research Methods I
Biological Sciences IIA
Biological Sciences IIB
Social Psychology of Leisure
Learning Processes and Leisure Education
Diversional Therapy and the Ageing Population
Contemporary Issues in Healthcare
Client Groups I
Program Design and Evaluation
Professional Practice II: Skill Development*

Year 3

Research Methods II
Sociology of the Aged and Ageing
Psychology II
Biological Sciences IIIA
Biological Sciences IIIB
Professional Communication and Guidance
Outdoor Recreation and Education
Research Project in Leisure and Health
Client Groups II
Professional Practice III: Mastery and Research

C.2 - Honours Course (3 year full-time)

Year 1 - As for Pass Course

Year 2 - As for Pass Course

Year 3 - As for Pass Course plus:
Honours Research Seminar I

Year 4

Honours Research Seminar II
Honours Thesis
Research Elective*

TABLE D - MEDICAL RADIATION SCIENCES

D.1 - Pass Course (3 year full-time)

Year 1 (to be first offered in 1999)

Research Methods I: Design
Introduction to Psychology
Introduction to Health Sociology
Introductory Radiation Physics IA
Introductory Radiation Physics IB
Introductory Human Biology
Biomedical Sciences IA
Biomedical Sciences IB
Introduction to Clinical Education
PLUS
Radiographic Practice IA
Radiographic Practice IB
Radiographic Physics I
Clinical Education IA
OR
Nuclear Medicine IA
Nuclear Medicine IB
Nuclear Medicine Physics 1
Clinical Education IB
OR
Radiation Therapy IA
Radiation Therapy IB
Radiation Therapy Physics 1
Clinical Education 1C

Year 2 (to be first offered in 2000)

Biomedical Sciences II
Introductory Radiation Biology and Protection
Sectional Anatomy
Medical Ethics and Professional Issues
PLUS
Radiographic Physics
Radiographic Practice 2
Radiographic Pathology I
Clinical Education 2A
OR
Nuclear Medicine Physics 2
Nuclear Medicine 2
Radiopharmacy
Clinical Education 2B
OR
Radiation Therapy Physics 2
Radiation Therapy 2
Oncology A
Clinical Education 2C
Year 3 (to be first offered in 2001)

Research Methods II: Data Analysis
One of the following:
Social Psychology and Communication
Disability Studies and Behavioural Therapy
One of the following:
Clients, Practitioners and Organisations
Health Policy Service Delivery
PLUS
Image Processing
Medical Radiations Project
Integrated Diagnosis and Treatment
PLUS
Radiographic Physics 3A
Radiographic Physics 3B
Sonography A
Radiographic Pathology 2
Clinical Education 3A
Radiographic Physics 3B
Clinical Education 4A
Radiography Electives*
Elective Studies*
OR
Nuclear Medicine Physics 3
Nuclear Medicine 3A
Sonography A
Clinical Education 3B
Nuclear Medicine 3B
Clinical Education 4B
Elective Studies*
OR
Oncology B
Radiation Therapy Physics 3
Radiation Therapy 3A
Clinical Education 3C
Radiation Therapy 3B
Seminars in Radiation Therapy
Clinical Education 4C
Elective Studies*

Notes
# Radiography electives - choose 2 of the following:
Seminars in Diagnostic Radiography
Management Skills in the Health Professions
Interventional Techniques
Sports Injury Imaging
Paediatrics
Operative Radiography
Functional Brain Imaging

* Elective studies - choose from the following:
  Radiography: Choice of 1 out of the 4 areas
  Nuclear Medicine: Choice of 2 out of the 4 areas
  Radiation Therapy: Choice of 1 of the 4 areas
  1. Physics Electives:
     Medical Radiation Sciences Physics Elective
     Clinical Physics
  2. Sonography B

3. Behavioural Science Electives
   Alternative Medicine
   Community, the Internet and Health
   Information
   Death and Dying
   Gender and Health/International Health
   Media and Health/Occupational Health
   Social Theory and Medical Sociology
   Sociology of Ageing
   Sociology of Community and Family
   Sociology of Sport
   Health Psychology
   Psychological Function

4. Biomedical Science Electives
   Embryology
   Neurology

D.2 - Honours Course (4 year full-time)

Year 1 and 2 - As for Pass Course

Year 3 - As for Pass Course

Year 4 (to be first offered in 2002)

Honours Research Seminar
Thesis Support A
Thesis Support B
Elective
Honours Thesis
Elective (choose one from the following):
  Epidemiological Research
  Evaluation Research
  History and Philosophy of Scientific Methodology
  Intermediate Statistics
  Multivariate Statistics
  Qualitative Research Methods
  Survey Research Methods

TABLE E - OCCUPATIONAL THERAPY

E.1 - Pass Course (4 year full-time)

Year 1 (to be first offered in 1999)

Introduction to Health Sociology
Introductory Psychology
Cognitive Functioning
Introductory Biomedical Sciences
Body Function and Health
Musculoskeletal Anatomy
Human Occupations IA
Human Occupations IB
Components of Occupational Performance IA
Components of Occupational Performance IB
Occupational Therapy Theory and Process IA
Occupational Therapy Theory and Process IB
Occupations and Roles Across the Lifespan IA
Occupations and Roles Across the Lifespan IB
Professional Practice I
Electives*
TABLE F - ORTHOPTICS

F.1 - Pass Course (4 year full-time)

Year 1
- Introduction to Health Sociology
- Introduction to Psychology
- Introductory Human Biology
- Introductory Neurobiology
- Neurobiology I
- Body Systems I
- Optics I
- Clinical Instrumentation IIA
- Clinical Instrumentation IIB
- Visual Processes
- Binocular Vision
- Disorders of the Visual System IIA
- Disorders of the Visual System IIB

Year 2
- Behavioural Science IIA
- Behavioural Science IIB
- Research Methods II: Data Analysis and Statistics
- Research Methods I
- Introductory Pathology
- Ocular Biology
- Visual Neurobiology
- Concomitant Strabismus B
- Instrumentation IIA
- Instrumentation IIB
- Concomitant Strabismus A
- Disorders of the Visual System IIA
- Disorders of the Visual System IIB
AND
- Clinical Studies IIA
- OR
- Clinical Studies IIB

Year 3
- Bio-electrical Signals and Computing
- Embryology and Neuro Plasticity
- Clinical Studies III
- Clinical Project
- Ocular Motility Disorders I
- Disorders of the Visual System III
- Rehabilitation Studies I
- Instrumentation III
- Elective Study

Year 4
- Visual Science
- Ocular Motility Disorders II
- Disorders of the Visual System IV
- Rehabilitation Studies II
- Professional Studies
- Clinical Studies IV
- Developing a Research Project
AND
- Research Project
- OR
- Professional Elective
F.2 - Honours Course (4 year full-time)

Year 1 - As for Pass Course

Year 2 - As for Pass Course

Year 3

- Research Statistics
- Bio-electrical Signals and Computing
- Embryology and Neuro Plasticity
- Clinical Studies III
- Ocular Motility Disorders I
- Disorders of the Visual System III
- Rehabilitation Studies I
- Instrumentation III
- Clinical Project (Honours)
- Research Proposal Part A
- Research Proposal Part B

Year 4

- Visual Science
- Ocular Motility Disorders II
- Disorders of the Visual System TV
- Rehabilitation Studies II
- Professional Studies
- Research Thesis Part A
- Research Thesis Part B
- Clinical Studies IV

TABLE G - PHYSIOTHERAPY

G.1 - Pass course (4 year full-time)

Year 1

- Psychology of Motor Behaviour
- Research Methods I: Design
- Introductory Psychology
- Introductory Human Biology
- Body Systems I
- Functional Anatomy A
- Functional Anatomy B
- Introductory Neurobiology
- Neurobiology I
- Electrophysical Agents I
- Musculoskeletal Physiotherapy I
- Physiotherapy Practice I
- Kinesiology I

Year 2 (to be first offered in 1999)

- Research Methods II: Analysis
- Introduction to Health Sociology
- Social and Health Psychology
- Body Systems II
- Neurobiology II
- Cardiopulmonary Physiotherapy I
- Electrophysical Agents II
- Musculoskeletal Physiotherapy II
- Physiotherapy Practice II
- Clinical Education I
- Clinical Education II
- Biomechanics

Year 3 (to be first offered in 2000)

- Sociology of Clients, Practitioners and Organisations
- Body Systems III
- Cardiopulmonary Physiotherapy II
- Musculoskeletal Physiotherapy III
- Physiotherapy in Neurology I
- Paediatrics
- Physiotherapy Practice III
- Exercise and Health
- Clinical Education III
- Applied Physiology

Year 4 (to be first offered in 2001)

- Psychopathology and Behaviour Change
- Society, Policy and Health
- Clinical Education IVA
- Clinical Education IVB
- Evidence Based Practice
- Complex Cases
- Elective
- Advanced Manipulation Skills
- Physiotherapy in Neurology II
- Clinical Education IVC
- Clinical Education IVD

G.2 - Honours Course (4 year full-time)

Years 1 and 2 - As for Pass course

Year 3 (to be first offered in 2000)

- Sociology of Clients, Practitioners and Organisations
- Body Systems III
- Cardiopulmonary Physiotherapy II
- Musculoskeletal Physiotherapy III
- Physiotherapy in Neurology I
- Paediatrics
- Physiotherapy Practice III
- Exercise and Health
- Clinical Education III
- Research for Physiotherapists
- Applied Physiology

Year 4 (to be first offered in 2001)

- Psychopathology and Behaviour Change
- Society, Policy and Health
- Honours Thesis
- Complex Cases
- Advanced Manipulation Skills
- Physiotherapy in Neurology II
- Clinical Education IVC
- Clinical Education IVD
- Clinical Education IIIHA
- Clinical Education IIIHB
- Honours Research Seminar
### TABLE II - SPEECH PATHOLOGY

#### II.1 - Pass Course (4 year full-time)

**Year 1**
- Introductory Psychology
- Cognitive and Developmental Psychology
- Research Methods I: Design
- Disorders and their Management
- Introductory Human Biology
- Introductory Neurobiology
- Neurobiology I
- Hearing Science
- Speech Science I
- Speech Science II
- Linguistics
- Professional Development I: Introduction to Clinical Learning
- Phonetics I
- Normal Communication Development
- Articulation and Phonology

**Year 2**
- Cognitive Neuropsychology I
- Research Methods II: Data Analysis and Statistics
- Neurobiology II for Communication Disorders
- Voice Science and Disorders
- Language Impairments in Children I
- Language Impairments in Children II
- Stuttering
- Professional Development IIA: Clinical Skills
- Professional Development IIB: Clinical Skills
- Phonetics II
- Audiology I
- Audiological Management I
- Speech and Language Impairments of Neurological Origin I
- Introductory Speech Pathology Clinical I
- Introductory Speech Pathology Clinical II

**Year 3**
- Cognitive Neuropsychology II
- Introduction to Health Sociology
- Clients, Practitioners and Organisations
- Patient Management: Theories and Applications
- Social and Health Psychology
- Neurology for Communication Disorders
- Audiological Management
- Speech and Language Impairments of Neurological Origin II
- Communication Impairments in Special Populations
- Swallowing Impairments
- Intermediate Speech Pathology: Clinical IIIH
- Audiological Management II
- Craniofacial Anomalies
- Language Impairments in Children III
- Honours Research Seminar I: Literature Review
- Professional Development IIIH: Management Skills
- Intermediate Speech Pathology Clinical IIIH
- Honours Research Seminar II: Research Proposal

**Year 4**
- Group A
  - Advanced Topics A
  - Professional Development IVA: Advanced Issues
  - Advanced Speech Pathology Clinical IA
  - Advanced Speech Pathology Clinical IIA
- Group B
  - Advanced Topics B
  - Professional Development rVB: Advanced Issues
  - Advanced Speech Pathology Clinical IB
  - Advanced Speech Pathology Clinical IIB

#### II.2 - Honours Course (4 year full-time)

**Year 1**
- As for Pass Course

**Year 2**
- As for Pass Course

**Year 3**
- Sociology I
- Sociology II
- Patient Management: Theories and Applications
- Cognitive Neuropsychology II
- Social and Health Psychology
- Neurology for Communication Disorders
- Speech and Language Impairments of Neurological Origin II
- Communication Impairments in Special Populations
- Swallowing Impairments
- Intermediate Speech Pathology: Clinical IIIH
- Audiological Management II
- Craniofacial Anomalies
- Language Impairments in Children III
- Honours Research Seminar I: Literature Review
- Professional Development IIIH: Management Skills
- Intermediate Speech Pathology Clinical IIIH
- Honours Research Seminar II: Research Proposal

**Year 4**
- Advanced Speech Pathology Clinical IIIH
- Professional Development IVH: Advanced Issues
- Advanced Speech Pathology Clinical HH
- Honours Thesis

### Bachelor of Behavioural Health Science

1. The degree of Bachelor of Behavioural Health Science may be awarded in the grade of Pass degree.
2. (1) The degree of Bachelor of Behavioural Health Science may be awarded in the grade of Honours degree.
   (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, the candidate shall receive a bronze medal.
3. (1) A unit 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 unit' 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 unit 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 unit which has previously not been satisfactorily completed shall, unless exempted by the Faculty, again complete all the work of the unit.

4. Where in these resolutions a power is given to the Faculty or a Head of School, Department, or Centre subject to any express indication to the contrary or resolution passed by the Faculty, the Faculty or a Head of School, Department, or Centre 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 unit unless entry requirements prescribed for that unit have been satisfied.

6. A candidate may be granted credit towards the degree on the basis of a unit or units regarded by the Faculty, on the recommendation of the Head of School, Department, or Centre 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 units 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 units as set out in the following table.

---

Table A - Behavioural Health Science

A.1 - Pass Course (3 year full-time)

**Year 1 (to be first offered in 1999)**

- Introduction to Health Psychology
- Social Psychology and Communication
- Clients, Practitioners and Organisations
- Professional Practice and Ethics I
- Microcomputer Applications
- Human Anatomy and Physiology A
- Elective Studies*

**Year 2 (to be first offered in 2000)**

- Health Psychology
- Abnormal Behaviour
- Disability Studies
- Cognitive Functioning
- Social Theory
- Research Methods I: Design
- Research Methods II: Data Analysis and Statistics
- Organisational Studies
- Human Resource Management
- Psychology Electives+
- Sociology Elective*
- Elective Studies*

OR

- Health Sociology
- Abnormal Behaviour
- Disability Studies
- Social Theory
- Health Policy and Service Delivery
- Research Methods I: Design
- Research Methods II: Data Analysis and Statistics
- Organisational Studies
- Human Resource Management
- Psychology Electives+
- Sociology Elective*
- Elective Studies*

**Year 3 (to be first offered in 2001)**

- Health Psychology
- Health Policy and Service Delivery
- Counselling and Assessment
- Workplace Attachment
- Professional Practice and Ethics II
- History and Philosophy of Scientific Methodology
- Sociology Electives*
- Psychology Elective+
- Elective Studies*

OR

- Health Sociology
- Health Policy Development
- Workplace Attachment
- Professional Practice and Ethics II
- History and Philosophy of Scientific Methodology
- Sociology Electives*
- Psychology Elective+
- Elective Studies*
Sociology Electives
- Sociology of Community and Family
- Psychosocial Aspects of Recreation and Sport
- Sociology of the Aged and Aging
- Culture, Health, and Illness
- Alternative Medicine
- Death and Dying

Psychology Electives
- Life Span Psychology and the Family
- Advanced Counselling
- Psychology of Sport and Exercise Adherence
- Brain and Cognition
- Psychology of Motor Behaviour

Elective Studies may be taken from within or outside the Faculty of Health Sciences, subject to availability and prerequisites. Students must discuss their electives with their academic advisor prior to enrolment.

A.2 - Honours Course

**Year 1 to Year 3 - As for Pass Course**

- Research Project
- Research Elective @
- Honours Electives ^
- Sociology I

Research Electives
- Intermediate Statistics
- Qualitative Research Methods
- Survey Research Methods

Honours Electives
- Abnormal Psychology and Mental Health
- Addictive Behaviours
- Cognitive Function in Neurological Disorders
- Organisational Psychology
- Stress and Coping
- Stress and Disability
- Disability and the Community
- Ethnic Minorities and Health Care in Australia
- Health and Cultural Pluralism
- Occupational Health and Stress
- Organisational Structures in Health Contexts

**Bachelor of Health Science**

1. The degree of Bachelor of Health Science may be awarded in the grade of Pass degree in:
   - Aboriginal Health and Community Development
   - Hearing and Speech
   - Rehabilitation Counselling
   - Nursing *
   - Occupational Therapy *
   - Physiotherapy *
   - Medical Radiation Technology *
   - Singapore Conversion Courses.

2. The degree of Bachelor of Health Science may be awarded in the grade of Honours degree in:
   - Aboriginal Health and Community Development
   - Hearing and Speech
   - Rehabilitation Counselling

(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 unit 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 unit' 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 unit 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 unit which has previously not been satisfactorily completed shall, unless exempted by the Faculty, again complete all the work of the unit.

4. Where in these resolutions a power is given to the Faculty or a Head of School, Department, or Centre subject to any express indication to the contrary or resolution passed by the Faculty, the Faculty or a Head of School, Department, or Centre may, in their discretion, in any particular case:
   - exercise the power,
   - exercise the power conditionally, or
   - 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 unit unless entry requirements prescribed for that unit have been satisfied.

6. A candidate may be granted credit towards the degree on the basis of a unit or units regarded by the Faculty, on the recommendation of the Head of School, Department, or Centre 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 units 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 units as set out in the following table.
### Table A  - Aboriginal Health and Community Development

**A.1 - Pass Course (4 year full-time block attendance plus off-campus)**

**Year 1**
- Perspectives in Indigenous Health I
- Community Development I
- Introduction to Counselling Skills
- Primary Health Care I
- Biological Sciences I
- Drugs and Alcohol I
- Communication Studies I
- Field Education I

**Year 2**
- Perspectives in Indigenous Health II
- Counselling Theory and Methods A
- Primary Health Care II
- Community Development II
- Health and Human Behaviour I
- Biological Sciences II
- Alcohol and Other Drugs II
- Field Education II

**Year 3**
- Indigenous Community Health Project A (Planning)
- Research Elective IIIA
- Research Elective IIIB
- Electives
- Field Education III

**Year 4**
- Indigenous Community Health Project B
- Electives
- Field Education IV

**A.2 - Honours Course (4 year full-time)**

**Year 1 to Year 3 - As for Pass Course**

**Year 4 - As for Pass Course plus**
- Indigenous Community Health Project B
- Research Elective IVA
- Research Elective IVB
- Research Thesis A
- Research Thesis B
- Research Stream Electives
  - Epidemiology*
  - Introduction to Health Research*
  - Participant Observation and Ethnography*
  - Action Research*
  - Research Seminar
  - Quantitative Research Methods
  - Historical Research
  - Social Research
  - Counselling and Indigenous Mental Health Stream
  - Counselling Theory and Methods II
  - Family Therapy
  - Group Processes and Counselling
  - Art Therapy
  - Alcohol and Other Drugs Counselling
  - Issues in Indigenous Mental Health
  - Addictions Counselling

**Notes**
- \(^1\) or \(^2\) Indicates semester presentation.
- * Not offered in 1999.

### Table B  - Hearing and Speech

**B.1 - Pass Course (3 years full-time)**

**Year 1 (to be first offered in 1999)**
- Introductory Psychology
- Cognitive and Development Psychology
- Research Methods I: Design
- Disorders and their Management
- Introductory Human Biology
- Introductory Neurobiology
- Neurobiology I
- Hearing Science
- Speech Science I
- Speech Science II
- Linguistics
- Professional Development I: Introduction to Clinical Learning
- Phonetics I
- Normal Communication Development
- Articulation and Phonology
Year 2 (to be first offered in 2000)
Cognitive Neuropsychology I
Research Methods II: Data Analysis and Statistics
Neurobiology II for Communication Disorders
Voice Science and Disorders
Language Impairments in Children I
Language Impairments in Children II
Stuttering
Professional Development IIA: Clinical Skills
Professional Development IIB: Clinical Skills
Phonetics II
Audiology I
Audiological Management I
Speech and Language Impairments of Neurological Origin I
Communication Disorders Clinical I
Communication Disorders Clinical II

Year 3 (to be first offered in 2001)
Cognitive Neuropsychology II
Introduction to Health Sociology
Clients, Practitioners and Organisations
Patient Management: Theories and Applications
Social and Health Psychology
Neurology for Communication Disorders
Audiological Management II
Auditory Perception and Processing
Communication Impairments in Special Populations
Language Impairments in Children III
Professional Development III: Management Skills
Audiology II
Craniofacial Anomalies
Communication Disorders Clinical III
Communication Disorders Clinical IV

Year 4 (Honours Program) (to be first offered in 2002)
Honours Paper I
Honours Paper II
Honours Thesis

Table C - Rehabilitation Counselling

C.1 - Pass Course (4 year full-time)
Year 1
Vocational Rehabilitation IA
Vocational Rehabilitation IB
Introduction to Rehabilitation Philosophy
Ethical Perspectives of Rehabilitation
Professional Practice I
Rehabilitation Psychology IA
Rehabilitation Psychology IB
Research Methods I: Design
Introduction to Health Sociology
Clients, Practitioners and Organisations
Human Anatomy and Physiology A
Human Anatomy and Physiology B

Year 2 (to be first offered in 1999)
Rehabilitation Counselling IA
Rehabilitation Counselling IB
Vocational Rehabilitation IIA
Vocational Rehabilitation IIB
Case Management and Rehabilitation Planning I
Case Management and Rehabilitation Planning II
Occupational Health, Disability and Rehabilitation A
Occupational Health, Disability and Rehabilitation B
Professional Practice II
Rehabilitation Psychology IIA
Rehabilitation Psychology IIB
Research Methods II: Data Analysis and Statistics
Pathophysiology and Pharmacology A
Pathophysiology and Pharmacology B

Year 3 (to be first offered in 2000)
Rehabilitation Counselling IIA
Rehabilitation Counselling IIB
Vocational Rehabilitation IIA
Vocational Rehabilitation IIB
Accident Compensation Schemes Practicum
Avocational Rehabilitation
Legal Perspectives of Rehabilitation
Medical Aspects of Disability A
Medical Aspects of Disability B
Psychiatric Rehabilitation
Elective I (from Gp. A)
Elective II (from Gp. A)
Elective III (from Gp. A or B)
Elective IV (from Gp. A or B)
Professional Practice III
Philosophy and Politics of Disability and Rehabilitation
Behaviour Disorders and Management

Year 4 (to be first offered in 2001)
Rehabilitation Counselling IIIA
Rehabilitation Counselling IIIB
Group Research Project
Research Methods: Intermediate Statistics
Elective V (from Gp. A)
Elective VI (from Gp. A or B)
Elective VII (from Gp. A or B)
Professional Practice IV

C.2 - Honours Course (4 year full-time)

Year 1 and Year 2 - As for Pass Course

Year 3 - As for Pass Course plus
one Research Elective
Honours Workshop

Year 4 - (to be offered in 2001)
Rehabilitation Counselling IIIA
Rehabilitation Counselling IIIB
Professional Practice IV
Thesis

Senate Resolutions
### Table D - Medical Radiation Technology*, Nursing*, Occupational Therapy*, Physiotherapy* (* Off-Shore Singapore Conversion Course)

#### D.1 - Common Subjects (2 year 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

#### D.2 - Medical Radiation Technology

**Common Subjects**
- PLUS
- Department Designs and Safety Issues
- Computer Communications in Medical Radiation Technology
- Management of Equipment Selection

#### D.3 - Nursing

**Common Subjects**
- PLUS
- Health Assessment
- Management in Nursing
- Advanced Clinical Studies

#### D.4 - Occupational Therapy

**Common Subjects**
- PLUS
- Components of Occupational Performance
- Occupational Therapy Theory and Process
- Evaluation of Occupational Therapy Programs

#### D.5 - Physiotherapy

**Common Subjects**
- PLUS
- Evaluation in Physiotherapy
- Topics in Physiotherapy Management
- Advanced Physiotherapy Studies

### Table E - Medical Radiation Technology*, Occupational Therapy*, Physiotherapy* (* On-Shore Singapore Conversion Course)

#### E.1 - Medical Radiation Technology

**Year 1**
- Behavioural Science IIIA
- Behavioural Science liits
- Radiation Protection
- Radiation Biology

- Image Processing A
- Image Processing B
- Field Project A
- Field Project B
- PLUS
- Sonography A
- Sonography B
- Imaging IIA
- Imaging IIB
- Radiography IIA
- Radiography IIB
- Radiographic Pathology II
- Contrast Media
- OR
- Radiation Therapy IIA
- Radiation Therapy IIB
- Radiotherapy Physics IIA
- Radiotherapy Physics IIB
- Principles of Oncology A
- Principles of Oncology B
- Radiation Therapy Project

#### E.2 - Occupational Therapy - Pass Course -1 year

**Year 1**
- Sociology Elective
- Components of Occupational Performance
- Occupational Therapy Theory & Process IVA
- Occupational Therapy Theory & Process IVB
- Human Occupations
- Evaluation of Occupational Therapy Programs
- Elective Study
- Fieldwork Education

#### E.3 - Occupational Therapy - Honours - 2 semesters plus inter-semester break

**Year 1**
- Sociology Elective
- Components of Occupational Performance
- Occupational Therapy Theory & Process TVB
- Human Occupations
- Fieldwork Education
- Honours Research Seminar I
- Honours Research Seminar II
- Research Elective
- Honours Dissertation A
- Honours Dissertation B

#### E.4 - Physiotherapy - Pass Course -1 year

**Year 1**
- Health Medicine and Society
- Health Psychology
- Physiotherapy in Neurology III
- Cardiopulmonary Physiotherapy III
- Musculoskeletal Physiotherapy TV
- Topics in Physiotherapy TV
- Research and Investigation II
- Research and Investigation III
- Clinical Education IIIB
- Clinical Education IIIC
Master Degrees

Subject areas

1. (1) The degree of Master of Applied Science may be taken in the following subject areas:
   (i) Behavioural Science
   (ii) Biomedical Sciences
   (iii) Communication Sciences and Disorders
   (iv) Community Health
   (v) Education
   (vi) Exercise and Sport Science
   (vii) Gerontology
   (viii) Health Information Management
   (ix) Medical Radiation Technology
   (x) Occupational Therapy
   (xi) Orthoptics
   (xii) Physiotherapy
   (xiii) Rehabilitation
   (xiv) Rehabilitation Counselling
   (xv) Stuttering
   (xvi) Voice

2. The degree of Master of Health Science may be awarded in the grade of Pass degree or Honours degree in the following subject areas:
   (i) Behavioural Science
   (ii) Child and Adolescent Health
   (iii) Community Health
   (iv) Education
   (v) Exercise and Sport Science
   (vi) Gerontology
   (vii) Indigenous Community Health
   (viii) Manipulative Physiotherapy
   (ix) Medical Radiation Sciences
   (x) Occupational Therapy
   (xi) Physiotherapy
   (xii) Sports Physiotherapy.

3. The following degrees may be awarded in the grade of Pass degree or Honours degree:
   (i) Master of Occupational Therapy
   (ii) Master of Rehabilitation Counselling

Eligibility for admission

2. (1) The Faculty, may, on the recommendation of the Head of the Department, School, or Centre 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, School, or Centre 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, except in the case of candidates proceeding to the award of the degree of Master of Occupational Therapy, where the minimum candidature is four semesters and maximum candidature is eight semesters;

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.

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, school, or centre 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.
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, school, or centre 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, school, or centre 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, school, or centre concerned.

24. The Faculty may, on the recommendation of the head of the department, school, or centre concerned, call upon any candidate to show cause why that candidate 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 unit 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, department, or centre concerned.

(2) The words 'to complete a unit' 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 unit 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 unit which has previously not been satisfactorily completed shall, unless exempted by the Faculty, again complete all the work of the unit.
3. Where in these resolutions a power is given to the Faculty or a head of school, department, or centre 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, department, or centre 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, department, or centre 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 units as set out in the following tables in respect of the appropriate diploma area.

**Diploma of Health Science**

**A. Aboriginal Health and Community Development**

(2 year full-time block attendance, plus off-campus)

**Year 1**
- Perspectives in Indigenous Health I
- Communication Skills I
- Primary Health Care I
- Community Development I
- Introduction to Counselling Skills
- Elective Studies IA
- Elective Studies IB
- Field Education I

**Year 2**
- Perspectives in Indigenous Health II
- Communication Studies II
- Primary Health Care II
- Community Development II
- Counselling Theory and Methods A
- Elective Studies IIA
- Elective Studies UB
- Field Education II

**Graduate Diplomas and Graduate Certificates**

**Subject areas**

1. (1) The Graduate Diploma of Health Science may be taken in the following subject areas:
   (i) Behavioural Science
   (ii) Child and Adolescent Health
   (iii) Clinical Data Management
   (iv) Community Health
   (v) Exercise and Sport Science
   (vi) Gerontology
   (vii) Health Information Management
   (viii) Health Science Education
   (ix) Indigenous Community Health
   (x) Manipulative Physiotherapy
   (xi) Medical Radiation Sciences
   (xii) Medical Sonography
   (xiii) Physiotherapy
   (xiv) Sports Physiotherapy
   (xv) Vision Impairment

2. A Graduate Diploma may be taken in the following subject area:
   (i) Rehabilitation Counselling.

3. The Graduate Certificate of Health Science may be taken in the following areas:
   (i) Behavioural Science
   (ii) Casemix
   (iii) Child and Adolescent Health
   (iv) Clinical Data Management
   (v) Health Science Education
   (vi) Indigenous Community Health
   (vii) Medical Radiation Sciences
   (viii) Occupational Therapy
   (ix) Physiotherapy
   (x) Vision Impairment.

**Eligibility for admission**

2. (1) The Faculty, may, on the recommendation of the head of the department, school, or centre concerned, admit to candidature for a graduate diploma or graduate certificate within the Faculty an applicant if:
   (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 candidacy for the graduate diploma or graduate certificate in accordance with the provision of Chapter 10 of the by-laws.

Availability

3. Admission to candidacy for a graduate diploma or graduate certificate or any program within those diplomas or certificates may be limited by quota.

4. In determining any quota the University will take into account:
   (a) availability of resources including space, library, equipment and computing facilities; and
   (b) availability of adequate and appropriate supervision, including both the supervision of research candidatures and the coordination of coursework programs.

5. In considering an application for admission to candidacy the Faculty shall take account of any quota and will select in preference applicants who are most meritorious in terms of section 2 above.

6. Before recommending the admission of any applicant the head of the department or school concerned shall ensure that the extent of the resources and supervision available is known to and understood by the applicant and is appropriate to the applicant’s proposed area of study and research.

Preliminary studies

7. (1) An applicant may be required to undertake preliminary or qualifying studies, and complete such preliminary examinations as the Faculty may prescribe, before admission to candidacy.

   (2) Such an applicant shall complete the preliminary studies in not less than one semester and in not greater time than the Faculty may prescribe but in any case in not longer than two years.

Probationary admission

8. A candidate may be accepted by the Faculty on a probationary basis for a period not exceeding twelve months and upon completion of this period the Faculty shall review the candidate’s work and shall either confirm the candidate’s status with effect from the date of the original acceptance or terminate the candidature.

Time limits

9. A Candidate may be admitted to proceed on either a full-time basis or a part-time basis.

Credit

10. (1) The Faculty may, in respect of a candidate who before admission to candidacy has spent time in advanced study or research in the University of Sydney or in another university or institution:
   (a) deem such time to have been time spent after admission to candidacy; and
   (b) grant credit towards the graduate diploma or graduate certificate on the basis of a course or courses regarded as equivalent in workload and academic standard; provided that the time recognised or the credit granted represents no more than half of the total candidature and that any attendance requirements as may be prescribed by resolution of the Faculty are met.

Enrolment

11. (1) A candidate shall, unless otherwise permitted by the Faculty, enrol each year until the requirements for the graduate diploma or graduate certificate are completed or the candidature terminated;

   (2) A candidate readmitted to candidacy after an absence of more than one year shall complete the graduate diploma or graduate certificate under such conditions as the Faculty shall determine.

Requirements of the Degree

12. A candidate for the graduate diploma or graduate certificate shall complete the courses for the graduate diploma or graduate certificate as prescribed by the Faculty and set out in the table of courses.

13. On completion of the requirements for the graduate diploma or graduate certificate the head of the department or school concerned, shall report the results of the examination of the coursework to the Faculty which shall determine the results of the candidature.

Progress

14. The Faculty may, on the recommendation of the head of the department, school, or centre 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 Unit Descriptions

This appendix lists elective units for honours students. The electives are related to research methods. These are forty-two hour units 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 unit. Students who require further information about the content or administration of electives, or when they will be offered, should contact the School or Department offering the elective. Information about when the research electives are timetabled is available from the school or department offering the elective. The first four letters indicate the school or department which offers the unit (see the following table).

<table>
<thead>
<tr>
<th>Units beginning with the letters</th>
<th>Taught by</th>
<th>Office</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEHS</td>
<td>Department of Behavioural Sciences</td>
<td>G101</td>
<td>9 351 9228</td>
</tr>
<tr>
<td>BIOS</td>
<td>Department of Biomedical Sciences</td>
<td>S134</td>
<td>9 351 9455</td>
</tr>
<tr>
<td>ORTH</td>
<td>School of Applied Vision Sciences</td>
<td>T321</td>
<td>9 351 9250</td>
</tr>
<tr>
<td>CSBD</td>
<td>School of Communication Sciences and Disorders</td>
<td>B100</td>
<td>9 351 9450</td>
</tr>
<tr>
<td>COMH</td>
<td>School of Community Health</td>
<td>T409</td>
<td>9 351 9494</td>
</tr>
<tr>
<td>EXSS</td>
<td>School of Exercise and Sport Science</td>
<td>S140</td>
<td>9 351 9612</td>
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<tr>
<td>HIMT</td>
<td>School of Health Information Management</td>
<td>T301</td>
<td>9 351 9494</td>
</tr>
<tr>
<td>MRTY</td>
<td>School of Medical Radiation Technology</td>
<td>M201</td>
<td>9 351 9640</td>
</tr>
<tr>
<td>OCCP</td>
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<td>M501</td>
<td>9 351 9386</td>
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<tr>
<td>PHTY</td>
<td>School of Physiotherapy</td>
<td>O100</td>
<td>9 351 9273</td>
</tr>
</tbody>
</table>

Research Electives

COMH4025 (084A5) Epidemiological Research
Semester 2 - 3 credit points
Contact: Dr K Brock (Ph: 9351 9124)
In this unit students will be exposed to a spect 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.

COMH4026 (084A6) Evaluation Research
Semester 2 - 6 credit points
Contact: Mr Ian Hughes (Ph: 93519110)
In this unit, students will examine aspects of conducting evaluation research, an area that focuses on the application of research methods to health services. Empowering and critical approaches will be included.

COMH4027 (084A7) History and Philosophy of Scientific Methodology
Semester 1 and 2 - 3 credit points
Contact: Rod Rothwell (Ph: 9351 9122)
This unit 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.

COMH4028 (084A8) Action Research
Semester 1 - 6 credit points
Contact: Ian Hughes (Ph: 93519110)
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.

HIMT4045 (09471) Research Elective Independent Study
Semester 1 - 3 credit points
Semester 2 - 3 credit points
(for Health Information Management students only)
Contact: Prof B Reid (Ph: 9351 9059)
This unit will function as an independent study program allowing students to pursue an area of study related to the development of knowledge and skills in a specific area in preparation for their thesis.

BEHS4037 (10489) Intermediate Statistics
Semester 1 and 2 - 3 credit points
Contact: Dr P Choo (Ph: 93519583)
Pre-requisite Research Methods I and II, or equivalent.
In this unit, 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 unit is usually offered on Mondays 5-8pm.
In this unit 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 unit examines the types of research questions for which these methods are best suited, and provides training in data collection methods and analysis. The unit is conducted as a seminar in which students actively participate, and students work on a research project of their choice throughout the semester. This unit is usually offered on Wednesdays 4-7 pm.

**BEHS4040 (10492)  Survey Research Methods**  
*Semester 2 - 3 credit points*  
**Contact: Dr G Sullivan (Ph: 93519588)**  
This unit 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 unit is usually offered on Mondays from 5-8pm.

**BEHS4041 (10493)  Developing a Research Project**  
*Semester 1 or 2 - 3 credit points*  
**Contact: Dr G Sullivan (Ph: 93519588)**  
This unit provides an overview of the research process and focuses on the formulation of a research proposal. It provides students with an opportunity to review and update their knowledge of research methods, and introduces the research electives which concentrate on a particular methodology or aspect of the research process. Basic research design issues are considered. Various methods of data collection are examined together with their suitability for investigating different types of research questions. Students 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 is placed on the issues of validity and reliability of data collection techniques. Basic statistical procedures are briefly reviewed and applications such as epidemiology and evaluation research are introduced. This unit is usually offered on Mondays from 5-8pm in Semester 1 or by off-campus mode in Semester 1 or Semester 2.

**BIOS4034 (11488)  Virtual Polyclinic**  
*Semester 1 and 2-3 credit points*  
**Contact: Ms May Wong (Ph: 93519289)**  
Students will work in small teams to produce an aspect of a virtual polyclinic relevant to their professional discipline. Projects undertaken may include equipment simulations and client case studies and management protocols. Students will explore a range of multimedia development tools and develop skills to enable them to carry out their project. Projects and assessment methods will be established by consultation between students and staff.

**BEHS4039 (10491)  Qualitative Research Methods**  
*Semester 1 & 2-3 credit points*  
**Contact: Dr G Sullivan (Ph: 93519588)**  
In this unit students will learn about qualitative research methods such as in-depth interviewing and participant observation which focus on the investigation of people's experiences and their interpretation of events. This unit examines the types of research questions for which these methods are best suited, and provides training in data collection methods and analysis. The unit is conducted as a seminar in which students actively participate, and students work on a research project of their choice throughout the semester. This unit is usually offered on Wednesdays 4-7 pm.

**BIOS4035 (11489)  Sexuality for Health Professionals**  
*Semester 1 or 2-3 credit points*  
**Contact: Ms Patricia Weerakoon (Ph: 9351 9256)**  
This unit will examine the bio-psycho-social aspects of sexuality and health care and assist health professionals to develop services for clients who have sexual or reproductive concerns.

The course unit will provide a learning opportunity for the integration and application of prior learning in the disciplines involved. The unit will extend the students knowledge pertaining to sexuality in academics. Students will be encouraged to examine their attitudes towards a range of sexual behaviours and develop skills in assisting clients who have sexuality related problems.

Sexuality will be explored from a life cycle perspective. Sexual development will be traced from sexual differentiation to old age with consideration of the range of sexual expression at each stage. Students will be given the opportunity to explore individual interest areas in depth.

A variety of classroom activities and multimedia resources will be used. Corporative learning will be encouraged with group discussions and presentations.

It is recommended that students be in at least the second year of their professional training when they take this unit. However, students in their first year with prior tertiary training will be enrolled at the coordinators discretion. A knowledge of basic anatomy and physiology of the reproductive and sexual organs will be assumed.

**EXSS4003 (22404)  Biological Measurement and Analysis**  
*Semester 2 - 3 credit points*  
**Contact: Dr R Smith (Ph: 93519462)**  
This unit 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.

**OCCP4031 (15465)  Single System Research Design and Evaluation Methods**  
*Semester 2 - 3 credit points*  
**Contact: Ms Judy Ranka (Ph: 93519207)**  
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.
OCCP4032 (15479)  Research Design and Methods for Therapists

Semester 1-3  credit points
Contact: Ms Judy Ranka (Ph: 93519207)
The purpose of this unit 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.

OCCP4036 (15483)  Research in Occupational Therapy Clinical Practice

Semester 2 - 3  credit points
The purpose of this unit is for students to investigate issues in applied research and evaluation in clinical practice of occupational therapy. The unit will address historical perspectives on research in occupational therapy; common problems for research in clinical settings and procedures that are appropriate to the applied context.
Appendix 2  
Code of Practice for Undergraduate Teaching, Learning and Assessment

Introduction

The University of Sydney is an institution of higher education in which the quality of teaching and learning are of the highest standard. Major Goal 1 in the University Plan 1994-2004 states: 'The University of Sydney will maintain and enhance its position as an outstanding provider of high quality undergraduate and postgraduate teaching, both in Australia and internationally'. The University acknowledges its responsibility to provide a stimulating and challenging intellectual environment for all students. The following code of practice, which is designed to complement the University Code of Practice for Supervision of Postgraduate Research Candidates, sets out the general responsibilities of the University, faculties or colleges, departments or schools, and individual teachers in creating that environment. The following guidelines must be read in conjunction with University regulations for particular degrees, the defined roles of heads of departments and schools, deans and faculties and colleges, the Policy Documents on Teaching Activities and Degree Programs and Courses adopted by the Academic Board in 1994, and the AVCC Guidelines for Good Practice in Fourth Year Honours Programs.

A RESPONSIBILITIES AT THE UNIVERSITY LEVEL

The University has the responsibility

a. to ensure that appropriate University policies in respect of undergraduate teaching, learning and assessment are developed, kept under review and are effectively promulgated
b. abide by the University's policies on occupational health and safety so that students study and work in a safe and healthy environment
c. to ensure that adequate support services and hardware resources are available in such areas as learning assistance and information technology
d. to ensure that adequate development opportunities in teaching, learning and assessment practices are available to teachers of undergraduates through the Centre for Teaching and Learning, and/or through programs developed by departments, faculties and clinical schools
e. to ensure that clear policies exist with respect to the intellectual property rights of students and that students are aware of those rights
f. to ensure that all students are free in all matters relevant to enrolment, assessment and membership of the University community from discrimination or harassment on the basis of race, gender, age, political or sexual preference, marital status, religion, disability or personal beliefs
g. to uphold the AVCC Guidelines for Effective University Teaching
h. to have students on appropriate University committees, who will be provided with the same information as all other committee members, to enhance their effectiveness
i. to uphold information privacy principles relevant to personal student information in accordance with the University's policy on privacy and current legislation, including Freedom of Information
j. to provide a timetabled study vacation period of at least one week before each end of semester examination period - except in those faculties where this practice is inappropriate
k. to ensure a quality learning environment, including appropriate and properly maintained facilities.

B RESPONSIBILITIES AT THE COLLEGE OR FACULTY LEVEL

The Faculty or College has the responsibility

a. to ensure that applicants for admission to candidature are properly qualified with respect to the minimum requirements for entry to the program concerned and with respect to the particular course of study proposed
b. to ensure the appropriate timing of compulsory subjects and the availability of sufficient optional subjects so that a student passing all subjects at the first attempt may complete the course of study within the specified minimum time
c. to contribute to course, academic staff and curriculum development through conducting regular evaluation processes, including student evaluations. Reports on the results of student evaluations will be made available to the students in relation to curriculum development activities
d. where appropriate to have students on faculty or college committees, who will be provided with the same information as other committee members, to enable those students to be as effective as possible
e. to adhere to the procedures laid down by the Academic Board for developing new programs or making major changes to existing programs
f. regularly review assessment practices.
C. RESPONSIBILITIES AT THE DEPARTMENTAL LEVEL

These responsibilities are those of the Head of Department/School. They may however in many instances be delegated to an undergraduate co-ordinator or be exercised through a departmental committee. Such delegations must be clearly defined. The Department/School has the responsibility

a. to encourage staff to participate in workshops, seminars and forums relating to teaching (including those that relate to teaching cross culturally and acquiring skills in non-discriminatory teaching practice), learning and assessment organised by departments, faculties, clinical schools and/or the Centre for Teaching and Learning

b. to provide no later than the end of the first week of the commencement of a subject accurate written information concerning all relevant aspects of chosen subjects and to further provide written advice of the aims and objectives of each course, attendance and class requirements, the methods of assessment to be used and the weighting of that assessment

c. to return assessed written work (excluding examination scripts) within a reasonable time with comments appropriate to the assessment

d. to ensure that all assessment is appropriately related to the objectives of the subject

e. to grant special consideration or make special arrangements where performance is adversely affected by documented illness, disability or other serious cause

f. to provide access by appointment to academic staff outside timetabled class time

g. where appropriate to have students on departmental committees, who will be provided with the same information as other committee members, to enable them to be as effective as possible

h. to ensure that courses use relevant teaching and learning strategies, including, where appropriate, contemporary information and learning technology tools.

D. RESPONSIBILITIES OF STUDENTS

Each student has a responsibility

a. to be familiar with both the legislative and other requirements for the degree as set out in the faculty handbooks, or included in any other published departmental and faculty guidelines

b. to ensure that all administrative requirements of the faculty and University, such as re-enrolling each year, are met

c. to adhere to attendance and assessment requirements that are prescribed by the University, faculty and department/school

d. to adhere to the relevant by-laws and rules relating to ethical behaviour and good conduct that are prescribed by the University and relevant professional bodies.

Copies of this policy can be obtained at the following web address:
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