## University dates

### Summer School

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures begin</td>
<td>Tuesday 3 January</td>
</tr>
<tr>
<td>Lectures end</td>
<td>Friday 3 March</td>
</tr>
</tbody>
</table>

### Semester One

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures begin</td>
<td>Monday 6 March</td>
</tr>
<tr>
<td>AVCC common week/non-teaching Easter period</td>
<td>Friday 14 April to Friday 21 April</td>
</tr>
<tr>
<td>Last day of lectures</td>
<td>Friday 9 June</td>
</tr>
<tr>
<td>Study vacation: one week beginning</td>
<td>Monday 12 June to Friday 16 June</td>
</tr>
<tr>
<td>Examination period</td>
<td>Monday 19 June to Saturday 1 July</td>
</tr>
<tr>
<td>Semester ends</td>
<td>Monday 3 July to Friday 7 July</td>
</tr>
</tbody>
</table>

### Semester Two

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures begin</td>
<td>Monday 24 July</td>
</tr>
<tr>
<td>AVCC common week/non-teaching period</td>
<td>Monday 25 September to Friday 29 September</td>
</tr>
<tr>
<td>Last day of lectures</td>
<td>Friday 27 October</td>
</tr>
<tr>
<td>Study vacation</td>
<td>Monday 30 October to Friday 3 November</td>
</tr>
<tr>
<td>Examination period</td>
<td>Monday 6 November to Saturday 18 November</td>
</tr>
<tr>
<td>Semester ends</td>
<td>Saturday 18 November</td>
</tr>
</tbody>
</table>

These dates (and any updates) are also available at:  
www.ugYdxdu.aB/fstodent/on dergrad/apply/scm/dates.shtml

### Last dates for withdrawal or discontinuation 2006

#### Semester One units of study

<table>
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<th>Dates</th>
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<tbody>
<tr>
<td>Last day to add a unit</td>
<td>Friday 17 March</td>
</tr>
<tr>
<td>Last day for withdrawal</td>
<td>Friday 31 March</td>
</tr>
<tr>
<td>Last day to discontinue without failure (DNF)</td>
<td>Friday 28 April</td>
</tr>
<tr>
<td>Last day to discontinue (Discontinued - Fail)</td>
<td>Friday 9 June</td>
</tr>
</tbody>
</table>

#### Semester Two units of study

<table>
<thead>
<tr>
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<tr>
<td>Last day to add a unit</td>
<td>Friday 4 August</td>
</tr>
<tr>
<td>Last day for withdrawal</td>
<td>Thursday 31 August</td>
</tr>
<tr>
<td>Last day to discontinue without failure (DNF)</td>
<td>Friday 8 September</td>
</tr>
<tr>
<td>Last day to discontinue (Discontinued - Fail)</td>
<td>Friday 27 October</td>
</tr>
<tr>
<td>Last day to withdraw from a non standard unit of study</td>
<td>By the census date of the non standard unit of study which must not be earlier than 20 per cent of the way through the period of time during which the unit is undertaken.</td>
</tr>
</tbody>
</table>

Details are in the session calendar on the timetabling website http://web.timetable.usyd.edu.au.

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### The University of Sydney

**NSW 2006**

**Phone:** +61 2 93512222  
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### Faculty of Veterinary Science

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**Email:** vetsci@vetsci.usyd.edu.au

This book (and other handbooks) can also be found at: [www.usyd.edu.au/handbooks](http://www.usyd.edu.au/handbooks)

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The University of Sydney  
Faculty of Veterinary Science Handbook 2006.  
© 2006 The University of Sydney.  
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CRICOS Provider Code 00026A.  
The information in this handbook is subject to approval and/or change by the appropriate faculty of the University. Students should always check the accuracy of the information with faculty staff.

Produced by the Publications Office, The University of Sydney.
Vision
A world leader in veterinary education and research, focused on the health and welfare of animals and benefit to the community.

Values
Student life-long learning, supported by inspirational teaching

Research excellence creating new knowledge

Service to the profession and the community, as we value and develop our key relationships

A culture built on academic excellence, integrity, respect and encouragement

Animal well being guiding our work

Mission
We will educate and graduate outstanding veterinarians.

We will deliver a high quality, learning environment with a dynamic and responsive curriculum delivered by inspirational academic staff.

We will undertake high quality research and the establishment of research groups of excellence.

We will mentor our graduate students and develop a sense of ongoing commitment to and involvement with their university.

We will manage elite veterinary teaching hospitals where student learning opportunities are maximised, and excellent service is provided to the community.

We will be at all times informed and balanced advocates for the responsible care of animals.

We will work to ensure the financial viability and sustainable future of the Faculty.

We will have clear direction and effective leadership that maintains open avenues of consultation with students, staff and the wider university community.
Faculty of Veterinary Science

Culture statement

'We commit ourselves to developing and strengthening a unified culture that embodies:

A strong sense of common purpose supported by open and honest communication

Mutual trust and respect between all staff and students regardless of position

Fairness for all staff and students with recognition and reward for their achievements

A willingness and capability to adapt to internal and external change

Pride in the Faculty's heritage and belief in our core values

Everyone accepting personal responsibility and shared leadership for our future.'
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Welcome from the Dean

It is my pleasure to welcome you to the Faculty of Veterinary Science. Many congratulations on your admission - now you can start fulfilling that dream of becoming a veterinarian. In the next five years you can expect to work hard, but the training will be focused and the rewards high. Upon graduation you will have the knowledge and understanding that will prepare you for success in the veterinary profession. You will, of course, be responsible for showing leadership in all matters relating to animals.

As Australia’s first university founded in 1850, The University of Sydney is steeped in tradition, but is also mindful of the need to respond to the changing needs of the community and country. The Faculty of Veterinary Science shares that philosophy and is now celebrating more than 90 years of continuous education of world-class veterinarians. You will be instilled with that pride in our tradition and that ability to adapt to the changing needs of animals and their owners.

The excellent staff in the Faculty are committed to providing you with the best possible learning experience in the years to come. They will guide you through the difficult times and prepare you for lifelong learning that is so necessary for a member of the veterinary profession. In particular, the Sub-Dean for Students and the supportive staff in the Faculty Office will be essential contacts to enable you to learn effectively. They will assist you in making contact with a wide range of University services that help students who may experience medical, financial, emotional or learning difficulties.

At the very core of your training will be the care and welfare of animals. During your years in the Faculty you will be working with a wide range of animal species and at all times there will be obligations to ensure the highest standards of care for these animals. You will also be given the responsibility early on in the course to act as ambassadors for the Faculty when visiting veterinary practices, farms and other animal facilities. Later in the course you will be involved in the two Veterinary Teaching Hospitals, in Sydney and at Camden, and in external partner practices run by private practitioners. In these clinics you will take part in the treatment of companion and production animals under the supervision of experienced veterinarians. The Faculty’s Veterinary Teaching Hospitals also employ many veterinarians with specialist qualifications and you will be trained by them in state-of-the-art methods of diagnosis and therapy.

In this handbook you will find descriptions of study requirements for the Bachelor of Veterinary Science degree, as well as for graduate degrees within the Faculty. While most of our graduates find satisfying careers in clinical practice, the broad knowledge and skills acquired during the five years can open up a wide range of careers. One of these areas is research and the Faculty provides an opportunity for students to interrupt their studies after the later year of their course to undertake one year of supervised research in some area of interest. Successful completion of a small thesis embodying the results of this research leads to the award of a Bachelor of Science (Veterinary) degree. Over the past seven years, more than 40 students have completed this degree and found it to be one of the most satisfying things that they have done, leading to new career aspirations and research opportunities. The requirements for this one-year degree are described in the handbook.

Knowledge in the broad area of Veterinary Science is expanding at a tremendous rate, and it is important to have access to information on new diseases not only in Australia but internationally as well. To deal with this there is an ongoing curriculum review and our aim is to give you the tools to undertake independent learning, which will by necessity have to continue after you graduate. We have made a major commitment, together with the Library and the Postgraduate Foundation in Veterinary Science, to the development of a unique on-line resource, the Veterinary Education and Information Network, VEIN. VEIN will be a key resource during your years in the Faculty and afterwards when you are in practice anywhere in the world. To ensure that our curriculum is meeting your needs, you also will be asked to provide regular evaluation of your courses, which is very important if we are to ensure that we can provide you with the very best possible teaching and learning opportunities.

On behalf of all the staff, I reiterate our welcome to the Faculty and to your first step in becoming professional colleagues in what is a noble and rewarding task - the care and welfare of animals.

Professor Leo Jeffcott
Dean of Veterinary Science
1. Faculty of Veterinary Science

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "http://www.usyd.edu.au/handbooks/".

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Business Manager
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Staff
TBA

Students
Dr Rhondda Canfield

Teaching and Learning
Associate Professor Jennifer Hodgson

Sub Deans
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Professor Chris Moran
Bachelor of Veterinary Science Teaching
Associate Professor David Evans
Animal Welfare
Dr Robert Dixon
BSc(Vet)
Dr Glenn Shea
Camden Campus
TBA
e-Learning
Dr Paul Sheehy

Postgraduate Coursework
Hannah Forsyth
Postgraduate Education & Research Training
Dr Merran Govendir

Research Development
TBA
Sydney Campus
Associate Professor Nicholas Sangster

Undergraduate Admissions
Dr Paul Hopwood

Academics
Professors
Paul Canfield, BVSc PhD MRCPath DVCSc, FACVSc MRCVS. Appointed 2004
Gareth Evans, BA Oxon PhD. Appointed 2002
David Fraser, BVSc PhD Camb. Appointed 1986
William Fulkerson, BAgSc WA PhD. Appointed 2001
David Hodgson, BVSc PhD DipACVIM, FACBS FACSM MACVSc MRCVS. Appointed 2000
Leo Jeffcott, MA Camb BVetMed Lond PhD Lond DVCSc Melb VetMedDr Upsala, FRCVS. Appointed 2004
Chis Maxwell, BSc Agr PhD. Appointed 2003
Chis Moran, BSc PhD ANU. Appointed 2005
Frank Nicholas, BSc Agr PhD Edin . Appointed 2002
Herman Raadtsma, MSc Agr PhD. Appointed 2000
Tom Scott, BSc Agr Saskatchewan MSc Agr McGill PhD Syd. Appointed 2003
Richard Whittington, BVSc PhD, MACVSc. Appointed 2002
Hughes Professor
Alan Hasbun, BSc Agr DSc Nc'le PhD, FASM. Appointed 1992

Associate Professors
Andrew Dart, BVSc DVCSc DipACVS DipECVS
David Emery, BVSc BSc(Vet) PhD
Anthony English, BVSc PhD Qld. FACVSc RDF
David L Evans, BVSc PhD
Jennifer Hodgson, BVSc DipVetPath PhD Washington State
John House, BVMS DipACVIM PhD UC, DAVIS
Geraldine Hunt, BVSc MVetClinStud PhD, FACVSc
Nicholas Sangster, BVSc BSc(Vet) PhD
Rosanne Taylor, BVSc PhD
Peter Windsor, BVSc PhD
Peter Wynn, MRRuSc DipEd NE PhD
R Max Zuber, BVSc, FACVSc

Senior Lecturers
Vanessa Barrs, BVSc(Hons) MVetClinStud, FACVSc (Feline Medicine)
Julia Beatty, BSc(Hons) BVetMed PhD, FACVSc
Christina Dart, DVMed Zwonci MVS DVCSc DVS Guelph DipACVA
Robert Dixon, BVSc, BSc(Vet) PhD Massey
Susan Hemsley, BVSc MSc PhD GradCertEdStud
Patricia Holyoake, BVSc(Hons) Melb PhD
Paul Hopwood, DipTertiaryEd NE BVSc PhD, MRCVS
Michelle Hyde, BSc Agr PhD
Mark Krockerberger, BSc(Vet) BVSc PhD GradCertEdStud, MACVSc
Craig Macpherson, BVSc Massey MVMSt, FACVSc MAICD
Paul McGreavy, BVSc BSc Brist PhD, MACVSc MRCVS MAW
Tony D Mogg, BVSc(Hons) PhD Qld DipACVIM DipACVCP, FACVSc FAAVPT
Jacqui Norris, BVSc(Hons) MVS Melb PhD
Glenn Shea, BVSc PhD
Paul Sheehy, BSc Agr PhD
Imke Tammen, DVMed Hannover
Jenny-Ann Toribio, BVSc PhD
Peter Thomson, MSc MAppStat Macq PhD

Lecturers
John Baguley, BVSc(Hons), MACVSc MBA
Katrina Bosward, BVSc BSc(Vet) PhD GradDipVetClinStud
1. Faculty of Veterinary Science

Rhonna Canfield, BVSc PhD, MRCVS
Pietro Celi, DMV Italy PhD WA
Melanie Collier, BSc PhD, MRCVS
Jeff Downing, DipAgr BSc PhD Macq
Metran Govendir, BVSc PhD
Rachel Gray, BVSc PhD
Christine Hawke, BVSc(Hons) BSc(Vet) PhD
Wendy Muir, BScAgr(Hons) PhD
Jane Stevenson, B VetMed Lond, MRCVS
Peter C Thomson, MSc MAppStat Macq PhD (Biometry Lecturer)
Sanaz Zaki, BVSc(Hons), MACVS

Associate Lecturers
Russell Bush, BScAgr(Hons)

Clinic Staff

Clinic Directors
University Veterinary Centre - Camden
Andrew Dart
University Veterinary Centre - Sydney
Geraldine Hunt
Practice Coordinator [UVCS]
Hazel Bateman

Radiographer
Helen Laurendet, BSc(Appl), MIR

Veterinary Specialist
Christine Smith, DVM Diplomate ACVS
Linda Vogelnest, BVSc, MACVS

Senior Registrars
Martine Perkins, BVSc(Hons), MACVS MRCVS
Tom Russell, BVMS, MRCVS MACVS
Karen Hazell, BVMS, MACVS

Registrars
James Hart, BVSc
Richard Kuipers von Lande, BVSc, MRCVS MACVS
Julian Lunn, BVSc
Kieren Maddern, BVSc
Robert Pottie, BVSc M Vet Clin Stud
Joanne Rainger, BVSc BSc(Vet)(Hons) PhD
Kim Ticehurst, BVSc DipEd
Lan Tran, BVSc, MACVS

Senior Veterinary Pathologist
Neil Horadagoda, BVSc MVSc PhD, MACVS

Clinical Residents
Christina Baxter, BVSc
Amy Lingard, BVSc
Kate Makin, BVSc
Lucy Shum, BVSc

Veterinary Interns UVCS
Cathy Chan, BVSc
Amy Khoo, BVSc
Tina Knight, BVSc

Veterinary Interns UVCC
Tim Choi, BVSc
Marietta Foo, BVSc
Andrea Gabites, BVSc
Sheere Hourston, BVSc
Kate Ireland, BVSc
Mellora Sharman, BVSc

Nursing Staff
Kelly Amaro, UVCC
Natasha Burton, UVCC
Sarah Collins, UVCC
Caroline Dillen, UVCC
Kylie Drake, UVCC
Jennifer Doyle
Kate Fahy, UVCC
Jasmine Feeney, UVCC
Rhonda Foreman, UVCC
Sarah Graham, UVCC
Christine Houston, UVCC

Elizabeth Jones, UVCC
Lorena Munos, UVCC
Alison Nolan, UVCC
Michelle Siskovic, UVCC
Rebecca Stephehnion, UVCC
Joanne Tapp, UVCC
Tara Wallace, UVCC

Animal Attendants
Kevin Bertie, Camden
Mitchell Burns, Sydney
Melinda Hayter, Camden
Warren King, Camden
Antonio Nastasi, Sydney
Renée Seery, Sydney
Nobel Toribio, Camden

Administration Staff

Business Manager
TBA

Research & Student Administration Manager
Shirley Ray, BAppSc MSc UNSW DipEd

Faculty Personnel Officer
Stephanie Stanyer

Coordinator, Faculty Educational Services
Irene van Ekris, BSc JCU GradCertEducStudies (Higher Education)

Coordinator, Postgraduate Coursework
Hannah Forsyth, BA MA

Administrative Assistants
Lisa Ashley, Undergraduate Officer (BAnVetBioSc)
Leonie Beadman, Receptionist UVCS
Shannon Bennetts, Technical Assistant, Camden
Dhruba Chakravarty, Finance Office, Sydney
Helen Frappell, Personnel, Clinics
Jo-Anne Geist, Poultry Res Fdn, Camden
Michelle Heward, Camden
Elizabeth Kachembere, Pharmacy, UVCS
Karen Kilipatrick, UVCS Reception
Marianne Koureas, Sydney
Tess La Lande, Postgraduate Officer, Faculty Office
Rhonda McDonald, Receptionist, Camden
Angela McLoughlin, Finance Assistant, UVCS
Lauri Newland, REceptionist UVCS
Elaine McNeice, Office Manager, UVCC
Lee Mashman, Undergraduate Officer, Faculty Office
Patricia Roberts, Sydney
Lyn Robson, Dean’s Office
Melanie Robson, Extramural Placements Coordinator, Faculty Office
Marion Sadddington, Camden
Sandra Saville, Finance Assistant, Camden
Debbie Sheehan, UVCC
Meg Vost, VPHM, Sydney
Marie Wildridge, ReproGen, Camden
Diane Woods, UVCC
Helen Yeo, Extramural Placements Assistant, Faculty Office

Building Attendants Veterinary Science Conference Centre
William Cao
Russell Clifton

Information Technology

Faculty Computer Systems Manager
David Liu

Web Services Coordinator
Federico Costa

Computer Systems Officer, Camden
Chris Stimson

Educational Designer
Gerard Marcus
Technical Staff

Professional Staff
David Griffin, BSc Macq DipMT AIMLT, MAIMS
Patricia Martin, MVS
Denise Wigney, BVSc DipVetPath, MASM

Technical Manager, Camden
Rajesh Bangur, BSc UWS MAppSc UWS

Senior Technical Officers
Karen Barnes, PTHC BAppSc C Sturt
Richard Borg, BTHC MISP
Keith Ellis
Kim Heasman
Helen Hughes
Marilyn Jones
Craig Kristo, AssocDip Biology Qld
Dorothy Lewis, MSc Br Col
Karen Mathews
Sally Pope, MA Appl Ling UTS BTHC
Monica Ruckholdt
Kaylene Scrimgeour
Angelika Trube
George Tsoukalas, PTHC
Anna Waldron

Technical Officers
Gina Attard
Byron Biffin
Sherie Brooker
Sherry Catt
Elaine Chew, BSc, DipPathTech STC
Nicole Carter
Joseph Davis
Dung Doan, BSc Griffith Uni, Qld
Norman Dow
Pauline Geale
Joy Gill
Krishanthi Gunaratnam
Brian Harvey
Ron Henderson
Jaynee Hibbert
Belinda Kew
John McClure
Maria More
Kerry Murdock
Svetlana Patoka, BSc Inst ofKriboy Rog MTC
David Palmer
Angela Reeves
Natallie Schiller
Donald Slade
Andrew Souter
Jiri Tasler
Keith Tribe
Matthew Van Dijk
Stuart Wilkinson, BScAgr MScVSc

Illustrator
Bozena Jantulik

Laboratory Assistants
Sopheak Chaophrasy
Pabitra Dhungyel
Eileen Risby
Matthew Silverstein
Frank Taeker, BSc Macq

Supervisor, Horse Unit
Gregory Hogan

Research

Principal Research Fellow
Peter Williamson, BSc(Hons) PhD

Senior Research Fellows
Vivien E Reeve, BSc PhD
Alexander (Sandy) McClintock, BA MSc PhD

Research Fellows
Karen Fullard, PhD
Matthew Hobbs, PhD
Sergio Garcia, PhD
Lisa Riley, PhD
Deborah Taylor, PhD
Kyall Zenger, PhD

Research Associates
Munif Allans on
Mahesh Bandara
Douglas Begg
Ronald Newman

Postdoctoral Fellows
Katherine Belov, PhD
Julie Cavanagh, PhD
Kumudika de Silva, PhD
Lyryssa Di Fiore, PhD
Damien Higgins, PhD
Katherine Morton, PhD
Justine O’Brien, BScAgr(Hons) PhD
Anthony Rowe, PhD
Denbigh Simond, PhD
Fortune Sithole, PhD

Research Officer
Om P Dhungyel, MScVetSc PhD

Research Assistants
Ajantha Horadogoda, PhD
Yasmin Husaini
Reena Mehta, PhD
Amy Rogers
Diane Titmuss

Honorary Appointments

Emeritus Professors
E.F. Annison, PhD DSc Lond
Michael M Bryden, BVSc Qld DScVM Cornell PhD DSc, FAIBiol
RM Butterfield, PhD DVSc Qld MVSc, FACVSc
MJ Edwards, MVSc Liv PhD DVSc, MRCVS MACVSc
John Egerton, BVSc Qld DipBact Lond DVSc

Adjunct Professors
Graeme Allan, MVSc DipACVRad, FACVSc
Chris Bellenger, BVSc PhD, FACVSc MRCVS, FRCVS, FECVS
John Black, BAgSc DipEd, PhD
Graham Feletti, BA(Hons) ANU BSc UNSW PhD NZ
Graeme Kelly, BSc BVSc PhD

Adjunct Associate Professor
Ian Nielsen, BVSc, MACVSc

Adjunct Senior Lecturer
Karon Hoffmann, BVSc PhD
Paul Mills, BVSc UQ PhD UQ
Tracey Rogers, BVSc UQ DipEd PhD

Adjunct Lecturer
Robert Nicoll, BVSc BSc(Vet) DACVR

Visiting Professor
Stuart Reid, BVMS PhD DVM DipEdECVHP, FRSE MRCVS

Visiting Lecturers/Demonstrators
Anthony P Black, BVSc, FACVSc
David Clarke
Ken Mason
Jeffrey S Smith, BVSc DipACVO, FACVSc

Honorary Associate Professors
Heather Greenfield, BSc(Hons) PhD Lond RPHNutr UK DipPublHealth UNSW
Robert Love, MVSc PhD Brum, FACVSc

Honorary Senior Lecturer
Ramesh Malik, BVSc Punjab MSc Haryana Uni PhD UNE

Honorary Associates
Linda Beeney, BA Arts PhD (Medicine)
Angus Cammeron, BVSc MVSc Melb PhD Qld
Mike Cannam, PhD GradDipEd
Yizhou Chen, PhD
Juliana Croitoru-Lamoury, BSc France PhD France

James Delia-Vedova, BVSc
1. Faculty of Veterinary Science

Matthys Draisma, BVSc  
Xuequin Du, BMed China MProfStud Phillipines PhD UNSW  
Natasha Ellis, BSc  
Jeffery Eppleston, BScAg MScAg PhD UNSW DipSolarSim (Amer Soc Photobiology) GradDipl UNSW  
Suresh Gulati BSc Panjab Uni, India PGDipl UNSW MSc Macq PhD UNSW  
Peter Higgins, BVSc CPM, FAIM, FAMI, FASI, FAICD, FICA  
Stephen Ham, BVSc Budapest PhD Budapest  
Sally Isberg, BSc PhD  
John James, BArts Qld PhD UNSW  
Belinda Jones, BSc Sheffield PhD  
Ian Lean, BVSc  
Joan Lloyd, DVM Canada MVetStud PhD  
Jill Maddison, BVSc Dip Vet Clin Stud PhD, FACVSC  
Ian Martin, BVSc PhD  
Peter McCullagh, MBBS Melb DPhil Ox MRCP Lon MD Melb  
Kuldip Nandra, BAGr PAU MSc PAU PhD PAU  
Loretta O'Donnell, BA DipEd MBA AGSM AIMM  
Stephen Page, BSci BVSc MVet Clin Studies MAppSci  
Teija Tuulikki Peura, BSc Fin MSc Fin PhD Fin  
Ahmad Rabiee, BVSc DVM PhD  
Rodney Reece, BVSc MSc JCU PhD NZ  
Peter Selle, BVSc PhD  
Robyn Stanley, BVSc, FACVSc  
Keith Walker, BVSc PhD  
Jerry Wei, MAppSci BSc Taiwan  
Phillip Widders, BSc BVSc PhD Bristol
2. Introduction to undergraduate courses

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit http://www.usyd.edu.au/handbooks/.

Bachelor of Veterinary Science, BVSc
(see also Bachelor of Veterinary Science units of study)

Veterinary Science at the University of Sydney produces graduates with the knowledge and skills to pursue many career options. The five-year course has a strong emphasis on animal handling skills, and includes teaching programs in a wide range of animal industries. Students spend twelve weeks on horse, pig, beef and dairy cattle, sheep, and poultry farms. These experiences develop competency in animal management. Classes in dog and cat handling are also included in the course.

There is a strong commitment to provision of opportunities for students to spend time in veterinary practices and these extramural links with practising veterinary surgeons are an important component of the BVSc program. The Faculty is committed to a variety of teaching methods, including lectures, laboratory practical classes, tutorials, case studies, workshops, computer assisted learning, and practical demonstrations. In years 4 and 5 students observe and participate in clinical activities at the University Veterinary Centres located at Sydney and Camden. Clinical cases and methods of dealing with real-life veterinary problems are emphasised in the course.

In Year 5 all students are required to undertake rotations at University Veterinary Centres (Sydney and Camden), Extramural Small Animal Practices, Extramural Rural Practices, Rural Lands Protection Boards and at other sites on nomination.

Students are responsible for funding their transport and accommodation expenses to complete each rotation.

The Faculty is committed to a course that will provide students with opportunities to learn about clinical veterinary science and teaching material is organised to demonstrate how basic sciences such as chemistry and biochemistry are applicable to veterinary science. The units of study are described in chapter 3.

General Information on admissions, enrolment and other matters are included in Section 8 of this handbook. Students should also contact the Faculty Office for information on admission procedures and other course details.

Clinical experience

The Faculty of Veterinary Science maintains teaching hospitals at the University Veterinary Centres at Sydney and Camden, where students and veterinarians work together in a clinical teaching and learning environment. Referral and primary accession cases are seen at both sites, and the University Veterinary Centre at Camden also provides veterinary services to farms in the region.

A wide range of companion animals, farm animals, racing animals, exotic and native species are seen. Visiting specialists complement Faculty specialists in most disciplines in providing an excellent learning environment for veterinary students. Knowledge of medicine, surgery, anaesthesia, radiology, clinical pathology and production animal issues are developed with small group teaching.

Practical work requirements

Students are required to complete practical work in animal husbandry in the vacation periods in the first three years of the course. All arrangements for placements are made through the Faculty Office.

Students in Year 5 of the course will complete a minimum of 36 weeks of clinical rotations at approved external veterinary practices and the University Veterinary Centres (Sydney and Camden).

Assumed knowledge for school leavers

NSW Higher School Certificate or equivalent level Mathematics, Chemistry and Physics. Biology would be a distinct advantage.

BVSc Honours

Honours First Class and Honours Second Class may be awarded at graduation. Students who are eligible to pursue honours will enroll in one of the honours units of study instead of the two standard Elective Rotations as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Points</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>VETS 5355</td>
<td>10</td>
<td>Honours Elective Research</td>
<td>Veterinary Science Years 1-4. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. VETS 5331 Preparation for Veterinary Practice. WAM =&gt; 70.</td>
</tr>
<tr>
<td>VETS 5356</td>
<td>10</td>
<td>Honours Elective Clinical Research</td>
<td>Veterinary Science Years 1-4. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. WAM =&gt; 70.</td>
</tr>
<tr>
<td>VETS 5357</td>
<td>10</td>
<td>Honours Elective ILP</td>
<td>Veterinary Science Years 1-4. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. VETS 5331 Preparation for Veterinary Practice. WAM =&gt; 70.</td>
</tr>
</tbody>
</table>

Bachelor of Animal and Veterinary Bioscience, BAnVetBioSc
(see also Bachelor of Animal and Veterinary Bioscience units of study)

The new Bachelor of Animal and Veterinary Bioscience degree involves the study of the structure and function of animals, their management and welfare in an agricultural, para-veterinary, laboratory or wildlife context. Its scope is wide and students acquire a sound education in general science together with in-depth knowledge of fields specifically relevant to animal science and production. Students learn how to apply the knowledge and principles of science to the understanding and management of the production, processing and marketing of animal products and the management and conservation of our natural resources, including native and endangered species. Emphasis is placed on the development of analytical, quantitative, computing and communication skills, as well as practical animal handling and management. Specialist research skills are gained in the fourth year through the completion of a research project.

This degree provides an excellent alternative to Veterinary Science for students seeking a professional career working with animals. It covers a wide spectrum of aspects in animal production, health and management.

Assumed knowledge for school leavers

Mathematics, Chemistry and Biology

Areas of Study:

Will include animal genetics, animal nutrition, animal reproduction, animal structure and function, cattle science and production, equine science and management, pig and poultry science and production, sheep science and production, animal health and disease, animal biotechnology and molecular biology.

Professional experience:

Students are required to complete 60 days of approved professional experience and field excursions.
2. Introduction to undergraduate courses

Career opportunities:
Examples include practice, management or research in: conservation of endangered species, zoo animal science, native animal research, animal health and quarantine, sustainable agriculture, animal breeding, animal nutrition, molecular genetics (animal and human), the pharmaceutical industry, medical research, reproductive technology (animal and human), biotechnology (animal and microbial), microbiology, food science, intensive and extensive animal production enterprises, horse, cattle and sheep studs, rural consultancy and extension (domestic and international), marketing, agricultural and veterinary chemicals, media and journalism, National Parks and Wildlife, secondary and tertiary education, Government departments (e.g., Department of Agriculture, Forestry and Fisheries).

Bachelor of Science (Veterinary), BSc(Vet)
(see also Bachelor of Science (Veterinary) units of study)

After the completion of third or fourth year students may undertake one year of supervised research in an area of veterinary science. Graduates are awarded a BSc(Vet).

Units of study
Units of study are subject to alteration. Units of study and arrangements for units of study, including staff allocated, as stated in this or any 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 of study, arrangements or staff allocations at any time without notice.

Coordinators
The coordinator for each unit of study is indicated below the credit point value. These are subject to change.

Books
Students are advised not to buy textbooks until lectures commence and lecturers recommend the preferred books.
3. Units of study

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [http://www.usyd.edu.au/handbooks/](http://www.usyd.edu.au/handbooks/).

Bachelor of Veterinary Science (BVSc)

**YEAR 1**

**VETS 1006 Animal Husbandry 1A**
5 credit points. 
*V. S. Dr Paul McGrew*. 
*Session*: Semester 1. 
*Classes*: Lectures: 43 hours. Practicals: 24 hours. 
*Assessment*: Intrasemester: 3 items of written assessment totaling 1,000 words (45%). End-of-semester: 2 hour examination (55%). 
*Other*: Non-barrier assessment of cat and dog handling.

This unit of study covers aspects of animal husbandry, welfare and management of: horses - their characteristics and management; pig and poultry industries in Australia and production of meat and eggs; cats, dogs and cage and aviary birds - breeds and their management.

A series of practical classes including animal training, urban animal management as well as handling of pocket pets, dogs and cats.

**Textbooks**

VETS 1006 Unit of Study Manual should be purchased. Students should inspect copies of the following books in the library before purchasing those that suit them best.


**VETS 1013 Cell Biology 1A**
4 credit points. 
*V. S. Dr Paul Sheehy*. 
*Session*: Semester 1. 
*Classes*: Lectures: 38 hours. Practicals: 10 hours. 
*Assessment*: Intrasemester: Assignment (20%). End of Semester: 1 hour written exam (65%). 
*Other*: Cytology Group Learning Exercise (15%).

This unit will introduce students to the biology of the cell. Topics include cell structure and cellular metabolism. The cell structure component includes a description of cell membranes and organelles and the cellular metabolism component includes a discussion of metabolic pathways. Clinical material is used to illustrate normal structure and function.

**Textbooks**


**CHEM 1405 Chemistry**
6 credit points. 
*V. S. Dr Adrian George*. 
*Session*: Semester 1. 
*Classes*: Lectures: 52 hours. Practicals: 27 hours (9 x 3 hr classes). 
*Assumed Knowledge*: HSC Chemistry. 
*Assessment*: Intrasemester: 4 x Quizzes (15%), Lab work (10%) End of semester: 3 hr Exam (75%).

This is a one semester unit of study designed to provide (i) a suitable foundation for subsequent units of study such as biochemistry, animal nutrition, physiology and pharmacology, and (ii) a chemical background that will aid in the understanding, diagnosis and treatment of disease. It covers chemical theory, inorganic, physical, and organic chemistry with many examples from biological areas. It pre-supposes a satisfactory prior knowledge of HSC Chemistry. A total of 52 hours of lectures comprising 28 lectures in inorganic and physical chemistry and 24 lectures in organic chemistry.

**Textbooks**


**VETS 1014 Professional Practice 1A**
3 credit points. 
*V. S. Dr Rhondda Cantfield*. 
*Session*: Semester 1. 
*Classes*: 9 workshop sessions of 2 hours and 18 lectures of 1 hour. 
*Assessment*: Intrasemester only: Assignments and quiz.

This course aims to introduce students to the veterinary profession and adjust to life in the faculty. The unit should enhance the ability to use libraries, information technology and other resources and enable students to acquire the skills and knowledge necessary for becoming an effective, reflective and self-motivated learner. Students will develop communication skills and an understanding of team work activities.

Students will learn about the history of veterinary science and its major achievements and the wide diversity of occupations and opportunities within the profession. Students will learn how to perform a basic physical examination. Animal Welfare is introduced and the main issues for veterinary students and veterinarians identified. This unit emphasises and encourages collaborative learning, clear communication, professional behaviour and self-care, and provides a background for other units in Year 1.

**Textbooks**

VETS 1014 Unit of Study Handbook.

**VETS 1015 Veterinary Anatomy and Physiology 1A**
6 credit points. 
*V. S. Dr Paul Hopwood*. 
*Session*: Semester 1. 
*Classes*: Lectures: 32 lectures. Practicals: 37 hours. 
*Assessment*: Intrasemester: April (20%) Anatomy, May (15%) Physiology. End of Semester: June (65%) 2.5 hour written examination anatomy and physiology.

Anatomy and histology refer to studies of the structure of cells, tissues and organs. Physiology refers to processes involved in normal cell, tissue or body function, and biological pathways involved in the maintenance of a healthy animal.

In this unit the gross anatomy and histology of the musculoskeletal system of the dog is studied together with the histology of epithelial tissue and connective tissue including blood. Basic principles of physiological control, water and electrolyte balance and the physiology of nerve and muscle cells complete the course. Clinical material is used to illustrate normal structure and function. Examples of structural and physiological abnormalities that cause dysfunction and disease in animals are included. Computer based tutorials and assessments will be used to assist.

**Textbooks**


**VETS 1017 Professional Practice IB**
3 credit points. 
*V. S. Dr John Baguley*. 
*Session*: Semester 2. 
*Classes*: 10 x 3 hour presentations. 
*Practicals*: 3 x 3 hour visits to Educational Support Practices.

This course aims to introduce students to the veterinary profession and adjust to life in the faculty. The unit should enhance the ability to use libraries, information technology and other resources and enable students to acquire the skills and knowledge necessary for becoming an effective, reflective and self-motivated learner. Students will develop communication skills and an understanding of team work activities.

Students will learn about the history of veterinary science and its major achievements and the wide diversity of occupations and opportunities within the profession. Students will learn how to perform a basic physical examination. Animal Welfare is introduced and the main issues for veterinary students and veterinarians identified. This unit emphasises and encourages collaborative learning, clear communication, professional behaviour and self-care, and provides a background for other units in Year 1.

**Textbooks**

VETS 1017 Professional Practice IB Handbook.
3. Units of study

Assumed Knowledge: VETS 1021 Professional Practice 1A: Assessment: Intrasemester: Writing for the public (250 words 20%). Veterinary consultation analysis (1,000 words 40%). Oral Presentation (40%). This unit of study focuses upon communication in a veterinary practice context and provides opportunities for the student to understand and apply the theory and practice of communication within a variety of veterinary settings through class exercises, assignments, group work and Education Support Practice visits. Assessment emphasises communication skills associated with interactions in the veterinary consultation, writing for the public and communicating with the media. In addition, students will continue to explore other professional practice themes of professionalism, practice management, animal welfare and personal development.

At the end of semester teaching, students are also required to submit the following documents: ESP Learning Agreement Form; Letter of Introduction to ESP; Communication Skill Feedback Form.

Textbooks
Unit of Study Handbook.

VETS 1020 Veterinary Anatomy and Physiology 1B
8 credit points. B V Sc. Dr Glenn Shea. Session: Semester 2. Classes: 51 lectures, 34.5 hours of practical classes and 10 hours of tutorials. Assessment: 2 hour written theory paper 55%, physiological insemester assessment 15% and anatomy tissue identification 30% (10%-in-class, 20%-end-of-semester).

Implying a study of anatomy, histology and physiology of the respiratory, endocrine, cardiovascular and urinary systems are studied. Mechanisms of acid base regulation are also included. Clinical material is used to illustrate normal structure and function. Examples of structural and physiological abnormalities that cause dysfunction and disease are also included. Computer based tutorials and assessments will be used to assist learning.

Textbooks

YEAR 2

VETS 2008 Professional Practice 2

This unit provides opportunities for the student to understand and apply basic principles in veterinary practice management. The focus is upon small animal practice and this is enhanced through continued Education Support Practice visits. In addition, students will further explore professional practice themes of animal welfare, communication and personal development.

During this unit of study, students are also required to successfully complete an Independent Learning Project which must be submitted by the end of semester teaching together with the following forms: ESP Agreement Form; Supervisor Report Form; ILP Contract and ILP Report.

Textbooks
Unit of Study Handbook.

VETS 2009 Genetics and Biometry
6 credit points. B V Sc. Dr Peter Thomson. Session: Semester 1. Classes: Lectures: 26 hours (Genetics), 26 hours (Biometry). Practicals: 13 hours (Biometry), Tutorials: 13 hours (Genetics). Assumed Knowledge: HSCI Mathematics, VETS 1015 Cell Biology 1B. Assessment: Intrasemester: Genetics: 1 hour Half-way exam (17%) Biometry: Multiple choice quizzes (15%), Practical assignments (15%). End of Semester: 1 hour Genetics exam (33%), 1.5 hour Biometry exam (20%).

This Unit of Study presents an introduction to those aspects of genetics and statistical methodology that are relevant to veterinary science. The genetics section covers the creation and use of genetic maps; single-locus disorders; chromosomal abnormalities; non-Mendelian familial disorders; immunogenetics; pharmacogenetics; genetic variation in pests, parasites and pathogens; genetic and environmental control of inherited diseases; relationship and inbreeding; heritability; breed history and structure; selection and crossing.

The biometry section covers biological variability; descriptive statistics (numerical and graphical summaries); probability concepts; samples and populations; the normal distribution; hypothesis tests (one-and two-sample tests); confidence intervals; analysis of variance; regression and correlation; experimental design (basic principles, specific design types); and contingency tables.

Textbooks

VETS 2010 Animal Digestion and Nutrition

Animal Digestion and Nutrition is a unit of study that consists of an integrated series of lectures, practical classes, tutorials and workshops focusing on the comparative structure and the function of the digestive system and a series of lectures on the principles and practice of nutrition and interactions between nutrients that influence health and production.

Textbooks

VETS 2011 Veterinary Anatomy and Physiology 2A
7 credit points. B V Sc. Assoc Prof David Evans. Session: Semester 1. Classes: Lectures: 66 hours. Practicals: 23 hours. Tutorials: 9 hours. Assumed Knowledge: Veterinary Science Year 1 Assessment: Intrasemester: 1 x 5 hour, 1 x 45 hours (total 45%). End of Semester: 15 hour exam (30%) 1 hour practical exam (25%).

This unit has been designed to extend knowledge obtained during Year 1 units in Veterinary Anatomy and Physiology and explore more mechanisms of animal dysfunction. It also deals with some new topics in animal structure and function, particularly the nervous system, and covers the anatomy of common domestic bird species, with an emphasis on the chicken.

The unit focuses on the nervous system and senses, mechanisms by which dysfunction of body systems leads to disease, and development of skills used to recognize normal and abnormal animals. Students will learn through inquiry and problem solving in groups and will be assessed on ability to apply and use their knowledge and development of generic skills. Neurophysiology and neuroanatomy are integrated, and students will learn how neural function is determined by the neural structures and their connections. Students will apply the principles covered in these topics to examine, describe, interpret and explain how animals perceive their environment, process and store information and respond with voluntary and involuntary activities. The primary focus will be on normal animals, however specific lesions will be used to demonstrate the role of components of the nervous system in normal function. The skills and knowledge acquired during this unit will be further used and developed in units of study in years 2-5 of the course. For example the neuroanatomy, neurophysiology and neuropharmacology component of this Unit will provide students with a basis for analysis and management of animals with abnormal neurological function in clinical medicine. The unit also covers aspects of applied cardiovascular and exercise physiology, thermoregulation and integument.

Tutorials and formative assessments on wecbe will be used to assist learning.

Textbooks
List provided by staff.

VETS 2012 Equine Anatomy

In this unit of study, the topographic and regional anatomy of the horse, a large domestic animal, is studied by sequential dissection.
of entire preserved horses. This unit of study also involves integration of knowledge of systemic anatomy, acquired from VETS 1014, 1020, 2010 and 2011, allowing the student to develop an understanding of the regional anatomy of a domestic mammal. Knowledge necessary for surgery units of study in later years. Clinically-relevant regions are emphasized, and the relevance illustrated by reference to common clinical conditions.

Textbooks


Reference


Additional course material will be available on webct.

VETS 2013 Principles of Disease


The overarching theme for this unit of study is the concept of the interaction between the host, the agent of disease and environmental factors. There is a strong emphasis on diseases encountered in veterinary practice to illustrate these concepts. Previous subjects including anatomy, histology, physiology and cell biology, lay the groundwork for this unit of study because it is essential to understand normal structure and function before we can recognize and understand the implications of the disease state. Because the principles of disease are vital in preparing the student for the deeper principles studied in systemic pathology, microbiology and parasitology, as well as for some components of pharmacology, in Semester 5 of the course. Textbooks

It is not essential to purchase a textbook for any component of this course, however the Unit of Study Handbook has a list of recommended textbooks that may assist in the understanding of the course material.

VETS 2015 Veterinary Conservation Biology


Veterinary Conservation Biology covers activities in the following areas: wildlife health, conservation of endangered species (in situ versus ex situ), sustainable farming and off-reserve conservation (including vertebrate pest management), sustainable use of wildlife and the import and export of wildlife (both quarantine and conservation).

It can be seen from this list that there are many ways in which veterinarians can contribute to the conservation and management of wildlife, and to local and national economies. The profession should not necessarily be seen as people to become wildlife managers in their own right, but in most cases should be seen as essential members of teams undertaking such activities. With the passage of time these opportunities are certain to expand, and veterinarians must be prepared to take on new challenges and new avenues for employment.

The Unit of Study emphasises the role of veterinarians as members of teams. Learning Outcomes

At the end of this Unit of Study, it is expected that students will: 1. Have a broad knowledge and general understanding of the taxonomy, ecology, biology and conservation status of Australia’s unique vertebrate fauna.
2. Have knowledge and understanding of specified key aspects of the anatomy and physiology of Australia’s native vertebrate fauna (ANF).
3. Be aware and have a good understanding of the principles of the ecology, population dynamics, conservation status and management of macropods in Australia.
4. Have knowledge and understanding of the threats of natural disease processes and present that continue to adversely affect Australia’s fauna.
5. Have knowledge of, and be able to critically evaluate the arguments for and against the sustainable utilisation of wildlife, including the ethical and animal welfare aspects.
6. Have knowledge and understanding of the general principles of disease as they apply to wildlife health.
7. Have a broad knowledge and understanding of the husbandry and handling requirements for captive breeding of ANF.
8. Be aware of and understand the principles, animal welfare aspects and ethics of wildlife rehabilitation and translocation.
9. Be aware of, understand and critically evaluate the basis for current approaches to wildlife emergency management (oil spills, bushfires, marine mammal strandings).
10. Have a working knowledge and understanding of the legislation and treaties that deal with wildlife conservation and management.

Textbooks

The VCB Handbook contains a very large proportion of the information required as background reading for this Unit. In addition, the book by: Burgmann MA, Lindermayer DB. Conservation Biology for the Australian Environment. Surrey Beatty & Sons Pty Ltd, 1998. ISBN 0 949324 78 7, is a required reference.

VETS 2016 Veterinary Anatomy and Physiology 1B


Topics studied in this unit of study include the gross anatomy, histology and physiology of the reproductive system and mammary glands of domestic animals, fertility, pregnancy, parturition and postnatal and postnatal development. Students are introduced to clinically relevant material. Classes other than lectures will include tutorials, laboratory work, library research and small group projects. Incorporation into this unit are two sessions on the surface anatomy of the horse and cow - the focus is on clinically relevant structures.

Textbooks


YEAR 3

VETS 3018 Animal Behaviour and Animal Welfare Sci


Animal Behaviour and Animal Welfare Science is the study of normal and abnormal behaviours in domestic and captive species. Animal Behaviour is one of the core knowledge areas for veterinarians because it facilitates the recognition of disease states and helps veterinarians to make informed comment on animal welfare issues. Additional training in the area would be required for those aspiring to become specialist veterinary behaviour therapists.

The Unit of Study draws on knowledge of many aspects of animal husbandry, evolutionary biology, physiology, pharmacology and psychology. The course focuses on the importance of understanding ethology, learning theory and trainers’ techniques and includes demonstrations from expert animal handlers and trainers.

Textbooks


VETS3018 Unit of Study manual

VETS 3040 Veterinary Microbiology


Veterinary Microbiology encompasses veterinary bacteriology, virology, mycology and the newly discovered microscopic agents such as prions. It uses clinical cases and practical examples to explore the role of these microorganisms as agents of disease in companion and domestic animals. The study of veterinary microbiology is based on an understanding of the structure and morphology of bacteria, viruses and fungi of veterinary significance as well as the pathological and immunological processes taught in Principles of Disease. Veterinary microbiology helps to prepare students for Animal Disease, clinical subjects and life in veterinary practice.

Textbooks


Unit of Study Handbook for Veterinary Microbiology VETS3040, 2006.

VETS 3041 Veterinary Parasitology

VETS 3039 Professional Practice 3
4 credit points. B V Sc. Dr John Baguley. 
**Session:** Semester 2. 
**Classes:** Lectures: 20 x 1 hour presentations.Tutorials: 11 x 1 hour. 
**Assumed Knowledge:** Professional Practice 1A, IB. 2. 
**Assessment:** Intrasemester: Group Presentation (40%). Group Work Reflection (20%). Quizzes (40%).

This unit provides students with the opportunity to understand the importance of financial and legal perspectives in the management of cases and scenarios typical of veterinary practice life. There is a focus upon the legislative environment through a preliminary study of the various Acts and other legislation pertaining to the practice of veterinary science. Other perspectives such as implications for practice management and finance are also developed through scenarios linked to clinical material presented in VETS 3020 Animal Disease and VETS 3025 Veterinary Public Health. Classes comprise student presentations supported by talks from appropriate authorities, lectures and tutorials. The majority of learning for this unit of study is completed in groups and hence there is an additional emphasis upon the development of teamwork skills and their application to veterinary practice.

Textbooks
Unit of Study Handbook

VETS 3027 Veterinary Clinical Sciences 3
**Session:** Semester 2. 
**Classes:** Lectures: 78 hours. Pracicals: 12 hours. Tutorials: 6 hours. 
**Prerequisites:** Veterinary Science Years 1 - 2 and Semester 1 Year 3. 
**Assessment:** Intrasemester: Multiple choice question exam (20%). Essay (20%). End of Semester: 2 hour written examination consisting of short answer questions (60%).

Veterinary Clinical Science is the first Unit of several which develop skills in the clinical sciences. It builds on all of the preclinical Units and precedes a case-based approach to clinical issues. This unit of study is designed to impart basic skills in imaging, anaesthesia, surgery and medicine using relevant clinical case material.

Textbooks

VETS 3025 Veterinary Public Health
4 credit points. B V Sc. Dr Robert Dixon. 
**Session:** Semester 2. 
**Classes:** Lectures: 36 hours. Practicals: 8 hours. 
**Assumed Knowledge:** Veterinary Science Years 1 - 2. 
**Assessment:** Intrasemester: Group Project (30%) End of Semester: Final written examination (55%).

Veterinary Public Health encompasses 3 topics: veterinary epidemiology, food safety and zoonoses. Knowledge of these allows veterinarians to play a vital role in maintaining human health. Veterinary Epidemiology which incorporates disease patterns provides understanding of the control of human and animal disease. Veterinarians have an increased role in Food Safety from clinical practice to food standards regulation. Zoonoses are important for veterinary occupational health and safety and for the health of our clients.

The course in Veterinary Public Health builds on Veterinary Pathology, Veterinary Microbiology and Veterinary Parasitology and runs concurrently with Animal Disease. Topics are dealt with in the context provided by the Animal Disease cases.

Textbooks
A Unit of Study Handbook contains detailed notes for Veterinary Public Health.

YEAR 4

VETS 4331 Animal Husbandry Practical Report
**Session:** Semester 2. 
**Assumed Knowledge:** Veterinary Science Years 1-2 before placements commence. 
**Assessment:** 1. Assignments that address issues related to nutrition, reproduction, animal welfare, or scope for veterinary involvement on the farm are to be submitted in the first week of semester of the fourth year of the course. Two assignments of 500 words from each of the sheep and cattle placements, one assignment on pigs and poultry (500 words), and one 500 word assignment based on the horse or dairy experiences. 2. A test of skills used for handling horses and cattle will be administered at the Camden farms at the completion of Year 1.

Students are required to undertake periods of time on farms to learn aspects of farm management and the roles of veterinarians on farms. Students may have opportunities to practice their animal handling skills during these placements. The number of days required for placement at each farm type is: horse 5 days, dairy 5 days, beef 5 days, sheep 5 days, pig 3 days, poultry 2 days. Students may also undertake 4 weeks of elective placements, which will not carry any assignment requirements. The unit of study also includes 1 week of practical classes at Camden farms to enable development of animal handling skills with cattle, horses, pigs, sheep and poultry.

Textbooks
Unit of Study Handbook
VETS 4111 Veterinary Anaesthesia
4 credit points. B V Sc, Grad Dip Vet Sc. Dr Sanaa Zaki. Session: Semester 1. Classes: Lectures: 26 hours; Practicals: 10 hours; Tutorials: 4 hours. Prerequisites: Veterinary Science Years 1 - 3. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. Assessment: Intrasemester: A combination of assignments, quizzes and practical assessment (40%); End of Semester: 90 minute written examination on each of the following: anaesthesia of animals, analgesia for the peri-operative period, transfusion therapy and resuscitation techniques for cardio-respiratory arrest. Topics for discussion include anaesthesia for common disease conditions, different anaesthetic techniques for different species, equipment used in anaesthesia, analgesia for the peri-operative period, transfusion therapy and resuscitation techniques for cardio-respiratory arrest. Practical classes introduce students to techniques and procedures performed routinely during clinical anaesthesia and will also provide an introduction to anaesthesia for emergency procedures. Practical classes will enable students to observe and perform anaesthetic procedures in the clinical setting.

Textbooks
Unit of Study Handbook

VETS 4112 Veterinary Medicine & Clinical Pathology
8 credit points. B V Sc, Grad Dip Vet Sc. Dr Jules Beatty. Session: Semester 1. Classes: Lectures: 36 hours; Practicals: 9 hours; Tutorials: 36 hours. Prerequisites: Veterinary Science Years 1 - 3. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. Assessment: Intrasemester: Clinical pathology and veterinary medicine (30%); End of Semester: Veterinary Clinical Pathology (20%); Veterinary Medicine (50%). (See the VETS4112 UoS Handbook for details.)

Veterinary Medicine commenced in third year as part of clinical sciences, and now continues through the first semester of fourth year. Resource sessions on diseases of various organ systems constitute the didactic component. Case based material will be utilized for tutorials and practical classes. Veterinary Clinical Pathology is integrated into the course and assists in the diagnostic process by providing laboratory information, which may also be utilized in monitoring response to treatment. Laboratory data analysis will form the major part of lectures and tutorials. The unit of study is based on the study of dogs and cats with reference to other animal species as necessary.

Textbooks
See the VETS4112 UoS Handbook.

VETS 4113 Veterinary Radiology
4 credit points. B V Sc, Grad Dip Vet Sc. Adj. Professor Graeme Allain. Session: Semester 1. Classes: Lectures: 26 hours; Tutorials: 26 hours. Prerequisites: Veterinary Science Years 1 - 3. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. Assessment: Intrasemester: Formative assessment using multiple choice questions and/or WebCT (70%); End of Semester: Written examination (70%).

The course covers the radiographic appearance of the normal structures and functions of the various organs commonly investigated by radiology. Students will be taught to recognise, describe and diagnose the changes in structure and function related to diseases that are commonly found in radiographs. There will be an introduction to the special radiological techniques, including radiological contrast studies that are commonly used to further demonstrate diseases. The role of diagnostic ultrasound in the diagnosis of the common diseases of soft tissues will also be covered.

Textbooks

VETS 4114 Veterinary Surgery
6 credit points. B V Sc, Grad Dip Vet Sc. Dr Craig Macpherson. Session: Semester 1. Classes: Lectures: 44 lectures; Practicals: 24 hours. Prerequisites: Veterinary Science Years 1 - 3. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. Assessment: Intrasemester: MCQ week 7 or 8 (25%); End of Semester: Written Final Exam (50%); Other: 1,000 word essay (25%). Lectures, demonstrations and practical classes address the principles and practice of soft tissue and orthopaedic surgery in companion animals using an integrated, systems and problem-orientated approach. Practical classes provide instruction and practice in basic procedures such as desexing, cystotomy, gastrointestinal biopsy and resection, fracture fixation, surgery for cruciate ligament rupture, ophthalmic surgery, and other common surgical procedures.

Textbooks


VETS 4221 Bird Health and Production
4 credit points. B V Sc, Grad Dip Vet Sc. Dr Patricia Holyoake, Prof. Richard Whittington. Session: Semester 2. Classes: Lectures: 34 hours (14 chickens + 15 caged birds, 36 ducks + 36 ducklings + 5 fish + 5 fish startups). 18 hours: (5 chickens + 10 caged birds + 5 fish) Prerequisites: Veterinary Science Years 1 - 3. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. Assessment: Intrasemester: Case studies (40%); End of Semester: Written Examination (60%); Other: Formative assessment of animal handling during practical classes. This unit is designed for the various species of birds (including poultry). Emphasis is placed on the epidemiology, management and preventive medicine of chickens (commercial broiler and layer operations) and diagnostics, medicine and surgery of caged birds.

The cage bird component covers a wide range of avian species including waterfowl, psittacine and passerine birds. It will address the collection and analysis of clinical, necropsy and clinicopathologic information to investigate individual bird and flock problems. It will cover individual bird and flock therapy.

This unit of study also includes medicine of reptiles, "pocket pets" (rabbits, guinea pigs etc.), fisheries and aquaculture. The reptile and "pocket pets" component will cover anatomy and physiology applicable to clinical examination and common problems encountered in practice in Australia. Diagnosis and treatment of common conditions affecting fishes and aquaculture species will also be presented. Students will gain experience handling representatives of the common species and performing common clinical procedures.

Textbooks
Unit of Study Handbook
Stoskopf MK. Fish Medicine. WB Saunders Company, 1993. (reference book only—students are advised not to purchase)

VETS 4222 Horse Medicine and Surgery

Horse Medicine and Surgery is designed to provide a foundation whereby students become competent to deal with a horse or horses experiencing common medical or surgical problems as would be encountered in mixed practice. Much of the lecture course utilises problem-based learning using a case-based approach. This approach is designed to augment skills developed in other disciplines including anatomy, pathology, microbiology and small animal medicine and surgery. The course is designed to assist the student in learning effective problem solving skills, determination of differential diagnoses and the judicious use of appropriate diagnostic aids when attempting to reach a diagnosis. Options and approaches to commonly used therapeutic measures are included. Areas of emphasis in the course include lameness, respiratory diseases, abdominal pain (colic), weight loss, diseases of larynx, ophthalmology, reproductive management, dermatology and various other aspects of equine surgery and internal medicine. There are a series of practical classes designed to augment and expand the student's experiences in horse medicine and surgery.

Textbooks
Unit of Study Handbook

VETS 4223 Pig Health and Production

The aim of this unit of study is to provide students with an understanding of the major factors driving the profitability and sustainability of the commercial pig industry. Students will be provided with the basic skills to resolve production and profit-limiting problems on pork production units. The emphasis is on managing endemic disease and preventive medicine, with consideration given to welfare aspects of intensively housed animals. Practical classes are designed to provide students with the opportunity to participate in specialized husbandry and diagnostic practices undertaken on pig farms.
3. Units of study

There is some overlap between this course and "Bird Health and Production".

Textbooks
Unit of Study Handbook.

VETS 4224 Ruminant Health and Production
Prerequisites: Veterinary Science Years 1 - 3. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. Assessment: Intrasemester: TILHAP’s (15%). Mid-semester exam (20%): End of semester: Exam A (Grazing 40%); Exam B (Intensive 25%). Other: Practical classes: Pass/Fail.
This course will facilitate deeper learning approaches to gain an understanding of diseases of ruminants within various livestock production systems. It uses a case-based approach with TILHAP’s (Teaching Innovations in Livestock Health & Production) to demonstrate how systematic problem investigations provide an 'evidence basis' for implementing rational disease control management at the herd and flock level on-farm. This process is extended to problem management at the regional, national and international levels, illustrating the numerous career paths for veterinarians in servicing the food and fibre industries, and preparing students for their extramural training as interns in rural mixed and public practice.

The aim is for our graduates to:
- Use systematic pathological and epidemiological principles in the conduct of investigations to diagnose the common management and disease problems of ruminants;
- Readily obtain information from numerous knowledge resources that can lead to constructive advice, facilitating farm animal production and welfare;
- Develop skills in animal handling, clinical examination, pregnancy diagnosis, specimen collection, necropsy procedures, use of diagnostic laboratories and farm animal medicine and surgery;
- Apply their skills and knowledge in problem solving to design applied research and extension programs that promote disease control and prevention programs to assist optimal farm animal production.

Textbooks
Required resources:
Unit of Study Textbook
Practical Class Handbook.
Textbooks Required:
Pregnancy Diagnosis in Cattle (AACV)
Drought manual (NSW DPI)
Recommended text, either:
Veterinary Medicine 9th edition (Radostits et al) OR Veterinary Internal Medicine (Smith et al)

YEAR 5

VETS 5331 Preparation Veterinary Practice
This unit of study will prepare students as Veterinary Interns for their Intraural and Extramural Clinical Rotations during Year 5. Students will be instructed in practice management, financial management, skills marketing, insurance for practice and human resources, communication with colleagues and clients, time management and distance learning resources, accessing Virtual Clinical Campus and VEIN, self and stress management and job search. There will be focus sessions for each Year 5 Unit of Study. Professional ethical behaviour will be discussed throughout the course.
Preparation and delivery of assignments and all formal requirements for the Extramural Rotations will be presented. Learning activities include didactic presentations, seminars, group tasks, role-plays, self-completion tasks and skills checks.

Textbooks
Unit of Study Handbook.

VETS 5335 Small Animal Practice (Extramural)
This unit of study builds upon skills, knowledge and attitudes developed throughout the entire course and is completed at a Faculty approved small animal practice. Veterinary Interns will gain holistic understanding and experience of small animal practice prior to graduation. As well as this induction to the profession, there is the opportunity to ensure interns demonstrate a satisfactory standard with respect to the relevant graduate attributes and day one clinical skills.
Interns are expected to fully participate in agreed activities whilst attending the practice, typically taking on the role and schedule of a full time supervised associate. The requirements for this rotation include the completion of the following documents: an Introductory Letter to the placement at least four weeks prior to the rotation; a Site Contract; Learning Agreement Form; Skills Report Form; and Rotation Feedback Form. During the rotation interns are expected to participate in three meetings with the extramural supervisor and complete a communication task.

Textbooks
Handbook for Extramural Rotations.

VETS 5336 Rural Mixed Practice 1 (UVCC)
This unit of study provides students with an opportunity to practically apply the knowledge and skills they have developed during years 1 to 4. Through participation in professional activities students are expected to develop their communication skills with the public, staff and colleagues.
Veterinary Interns must achieve a satisfactory grade in all three services (equine, bovine and anaesthesia) to fulfil the requirements of this unit of study. Interns are also required to complete a written and/or oral Communication Task which will be evaluated by the UVCC Supervisor or nominee. Forms to be completed and submitted to the Faculty: 1. Site Contract; 2. Rotation Feedback Forms for each service; and 3. Skills Report Forms for each service.

Textbooks
Handbook for Intramural Rotations.

VETS 5337 Rural Mixed Practice 2 (Extramural)
This unit of study provides students with an opportunity to practically apply the knowledge and skills they have developed during years 1 to 4. In particular, they will gain experience in livestock and equine practice. Through participation in professional activities students are expected to develop their communication skills with the rural community, staff and colleagues.
Interns are expected to fully participate in agreed activities whilst attending the practice, typically taking on the role and schedule of a full time supervised associate. The requirements for this rotation include the completion of the following documents: an Introductory Letter to the placement at least four weeks prior to the rotation; a Site Contract; Learning Agreement Form; Skills Report Form and Rotation Feedback Form. During the rotation interns are expected to participate in three meetings with the extramural supervisor and complete a communication task.

Textbooks
Handbook for Extramural Rotations.

VETS 5345 Primary Accession Med & Surgery (UVCS)
4 credit points. BVSc. Dr Vanessa Bars. Session: Semester 2. Semester 1. Prerequisites: Veterinary Sciences Years 1-4. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. Assessment: Intrasemester: Supervisor report form; Case presentations at Clinical Rounds.
This 3 week rotation at the University Veterinary Centre, Sydney, is designed to give student interns experience in general practice and exposure to the types of cases they will encounter most commonly upon graduation. Interns will have the opportunity to practice clinically-relevant techniques such as history taking, physical examination, diagnostic sample collection, radiology and ultrasound, medical record keeping, critical analysis of information from different sources, analysis of case-related information, development and implementation of treatment plans and evaluation of outcomes. During this rotation interns will participate in the spey clinic, including routine healthcare evaluation, ovariohysterectomy and castration of small animals and post-operative management. In addition, interns should gain an appreciation of the holistic nature of veterinary practice, the importance of client-veterinarian, veterinarian-patient and veterinarian-colleague interactions, from the moment the client makes an appointment through resolution of the presenting problem.
and beyond. Students will participate in other UVCS activities, including routine health management, management of patients in hospital, intensive care duty and weekend duty.

Textbooks
Handbook for Intramural Rotations

VETS 5346 Referral Medicine (UVCS)

This unit of study aims to consolidate the theory of small animal internal medicine, as learnt in Veterinary Clinical Sciences 3027 and Veterinary Medicine 4112, and to apply it to the diagnosis and treatment of diseases. It aims to provide case-material to facilitate application of the problem-oriented approach to investigative medicine.

In this rotation emphasis will be placed on acquiring appropriate skills in history taking, advanced physical examination, including (but not restricted to) abdominal palpation, thoracic auscultation (including murmur identification, grading and localisation and respiratory auscultation), fundoscopy and non-invasive blood pressure measurement. Interpretation of diagnostic imaging modalities and clinicopathological test results will be an integral part of the rotation.

Cases will form the basis of interactive collegiate discussions on identification and assessment of problems on a patient-to-patient basis. Interns will become proficient in professional case-handover procedures through daily presentation of cases at clinical rounds.

As in other UVCS rotations interns will participate in activities, including (but not restricted to) client communication, collection of samples for basic diagnostic tests, developing treatment plans, routine health management, disease management, management of patients in hospital, medical record keeping, intensive care duty and weekend duty.

Textbooks
Handbook for Intramural Rotations

VETS 5347 Anaesthesia and Intensive Care (UVCS)

This Unit of Study provides student interns with an opportunity to apply the principles and practices of veterinary anaesthesia introduced to them in VETS3027 and VETS4111 in the clinical setting of a large veterinary hospital. This unit of study is designed to give student interns exposure and experience in clinical anaesthesia to help develop a deeper understanding of this discipline and prepare them for veterinary practice. Student interns are involved in the management of a wide variety of cases from the time the patient is admitted for anaesthesia up until the patient has fully recovered. This unit of study aims to foster a culture of shared leadership, teamwork, professional conduct, compassion and open communication in the work environment. Student interns participate in all activities undertaken by the UVCS Anaesthesia Unit including (but not restricted to) pre-anesthetic examination, formulation of anaesthesia and analgesia plans, induction and maintenance of anaesthesia, record keeping, post-operative care (including pain management) and ICU duty.

Student interns will learn and practice the many technical skills required to perform general anaesthesia including intravenous catheterisation, endotracheal intubation, collection of blood and urine for diagnostic testing. After completing this unit of study student interns will be able to safely and humanely anaesthetise and recover an ASA health status T 0r T 2 small animal patient with a degree of proficiency acceptable for a new graduate (refer to the Veterinary Graduate Attributes).

Textbooks
Handbook for Intramural Rotations

VETS 5348 Small Animal Surgery (UVCS)
4 credit points. B V Sc. Assoc Prof Geraldine Hunt. Session: Semester 1, Semester 2. Prerequisites: Veterinary Sciences Years 1-4. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. Assessment: Other: Ongoing assessment using supervisor report form, and assessment of communication tasks including written medical records and oral presentation in Surgery Rounds.

The UVCS rotations are designed to give veterinary interns experience in general practice and exposure to the kinds of clients and cases they will encounter upon graduation. In addition, rotation through the referral service will provide interns with the opportunity to manage more complex cases and, be exposed to scenarios where referral to a person or practice with more advanced knowledge, training or equipment is indicated. Students will participate in all UVCS activities, including (but not restricted to) client communication, history taking, physical examination, collection of samples for basic diagnostic tests, radiography, developing treatment plans, routine health management, disease management, medical, surgical and anaesthetic procedures, management of patients in hospital, medical record keeping, intensive care duty and weekend duty.

Textbooks
Handbook for Intramural Rotations.

VETS 5349 Rural Public Practice

This unit of study involves a 24-day rotation with a public agency or company involved in serving the rural industries and supporting the food and fire sector. In NSW, this is mainly the Rural Lands Protection Boards and NSW Department of Primary Industries, however interstate and overseas placements in approved agencies is encouraged, particularly for overseas students in their home state or country. The rotation offers practical opportunities to build on and apply knowledge of livestock production industries acquired in semester 8, particularly in herd management and health, legislation and quarantine, food production and hygiene, disease control and prevention, animal welfare and relevant basic and clinical science disciplines.

Students will be under the supervision of District Veterinarians, Veterinary Officers or their equivalent and as veterinary interns, can be involved in ongoing projects, including implementation of regional animal health plans, appraisal of research activities or veterinary surveillance, extension and regulatory programs.

Interns are expected to fully participate in agreed activities whilst attending this placement, typically taking on the role and schedule of a full time supervised associate. The requirements for this rotation include the completion of the following documents: an Introductory Letter to the placement at least four weeks prior to the rotation; a Site Contract; Learning Agreement Form; Skills Report Form; and Rotation Feedback Form. During the rotation interns are expected to participate in three meetings with the extramural supervisor, complete a communication task under the supervision of the associate veterinarian, contribute a reflective journal and comments to the VETS5335 website, and a written report on an applied research or extension project conducted during the rotation and of relevance to the placement.

VETS 5350 Elective Rotation 1

This Unit of Study consists of a rotation in a suitable location. Suitability of locations will be negotiated between the veterinary intern, veterinary practice and the UVCS. Interns will be able to choose one location under the supervision of an extramural supervisor, complete a communication task under the supervision of the associate veterinarian, contribute a reflective journal and comments to the VETS5350 website, and a written report on an applied research or extension project conducted during the rotation and of relevance to the placement.

Interns are expected to fully participate in agreed activities whilst attending this placement, typically taking on the role and schedule of a full-time supervised associate. The requirements for this rotation include the completion of the following documents: an Introductory Letter to the placement at least four weeks prior to the rotation; a Site Contract; Learning Agreement Form; Skills Report Form; and Rotation Feedback Form. During the rotation interns are expected...
to participate in three meetings with the extramural supervisor and complete a communication task.

Textbooks
Handbook for Extramural Rotations

VETS 5351 Elective Rotation A
5 credit points. B Sc, Prof David Hodgson. Session: Semester 2. Semester 1. Classes: Practicals: 24 day practicum. Prerequisites: Veterinary Sciences Years 1-4. Permit from Board of Veterinary Surgeons of NSW to perform acts of veterinary science under supervision. Assessment: Intramersale: Written assignment (2,500 words). Communication task. Supervisor Report Form. This Unit of Study consists of a rotation in a suitable location. Suitable locations will be negotiated between the veterinary intern, extramural supervisor and Faculty. In addition to the more traditional elective rotations e.g., small animal practice, equine practice, rural mixed practice and wildlife experience, veterinary interns may wish to undertake novel forms of elective rotation (see Elective Rotation 1). Students may wish to combine two elective rotations at the one site, for example at a referral hospital or research laboratory etc.

Whilst attending elective rotations, students will be under the supervision of an extramural supervisor, who will liaise with Faculty. The extramural supervisor will review the aims of the rotation with the student, who will be expected to have achieved these by the end of the rotation.

Interns are expected to fully participate in agreed activities whilst attending this placement, typically taking on the role and schedule of a full time supervised associate. The requirements for this rotation include the completion of the following documents: an Introductory Letter to the placement at least four weeks prior to the rotation; a Site Contract; Learning Agreement Form; Skills Report Form; and Rotation Feedback Form. During the rotation interns are expected to participate in three meetings with the extramural supervisor and complete a communication task.

Textbooks
Handbook for Extramural Rotations

Bachelor of Science (Veterinary)

VETS 4042 Veterinary Research A
24 credit points. B Sc (Vet). Dr Glenn Shea. Session: Semester 1. Classes: No lectures or other classes. Prerequisites: Veterinary Science Years 1, 2 and 3 or 1, 2, 3 and 4. Exemptions: VETS4043. Assessment: Thesis, oral presentation and oral examination. NB: Department permission required for enrolment. In this unit students undertake a period of supervised research in a topic in Veterinary Science.

VETS 4043 Veterinary Research B
24 credit points. B Sc (Vet). Dr Glenn Shea. Session: Semester 2. Classes: No lectures or other classes. Prerequisites: VETS4042 Veterinary Research A. Assessment: Thesis, oral presentation and oral examination. NB: Department permission required for enrolment. This unit of study is a continuation of VET$4042.

Bachelor of Animal and Veterinary Bioscience

YEAR 1

AGEC 1006 Economic Environment of Agriculture

This unit of study introduces students to the basic principles of economics and to the major features of the economic environment impacting on and driving farm and off-farm agriculture. Topics discussed include the organization of economies and the role agriculture plays, the industrial structure of Australian agriculture, introductory principles of production economics, and farm business management; elementary price theory and the factors affecting the demand and supply of agricultural commodities, nature and behaviour of markets for agricultural commodities; marketing of agricultural products; agricultural trade, resource and environmental management, and the political and administrative institutions affecting Australian agriculture.

Textbooks

Reference Books:
F Joggins (ed), Australian Agriculture: the complete reference on rural industry (Morseco, 1995).

ANS C 2002 Animal Science 2

This unit of study is an integrated course providing a framework for understanding the structure, function and management of agricultural animals. The emphasis of the course is on how animals maintain a steady state in the face of variations in their environment, physiological state and management systems. It aims to help students acquire the language necessary to discuss body structure and function and to understand the fundamental internal processes and their interactions, which take place in the maintenance of normal function. Concepts discussed in lectures are reinforced by practical classes held in the laboratory and on-farm at Camden.

Textbooks
A course handbook will be available for students to purchase. It contains details of lecture outlines, objectives, reference lists, details of practical classes, staff as well as other relevant class material.


Assessment:
Thesis, oral presentation and oral examination.

Prerequisites:
CROP1001, BIOL1001 OR BIOL110. Assessment: Assignments (65%), end of semester exam (35%).

It is a core first year unit for all our science-based degrees. It provides a foundation of quantitative skills to be used in further study in applied statistics in later years and in other Units within the Agricultural, Animal, Land & Water, or Horticultural Science degrees. It creates an awareness of the role of experimental design and statistical analysis in the research process. It examines some useful mathematical techniques such as least squares, differentiation and integration as applied to growth curves and linear and non-linear modelling, especially via the use of computers. Basic statistical topics covered include: describing biological data and variability, sampling and estimation, framing biological hypotheses; estimating a single treatment mean via a confidence interval and testing for a particular mean via a z-test or t-test; estimating or testing the difference between two treatment means. The spreadsheet package Excel and the statistical package GenStat will be used for mathematical and statistical analysis and for graphical presentation.

Textbooks
No single text is recommended as extensive course notes are made available. Reference books:

Angsupakul, RN and Soper, J (1998). Animal, Land & Water, or Horticultural Science degrees. It creates an awareness of the role of experimental design and statistical analysis in the research process. It examines some useful mathematical techniques such as least squares, differentiation and integration as applied to growth curves and linear and non-linear modelling, especially via the use of computers. Basic statistical topics covered include: describing biological data and variability, sampling and estimation, framing biological hypotheses; estimating a single treatment mean via a confidence interval and testing for a particular mean via a z-test or t-test; estimating or testing the difference between two treatment means. The spreadsheet package Excel and the statistical package GenStat will be used for mathematical and statistical analysis and for graphical presentation.

Textbooks
No single text is recommended as extensive course notes are made available. Reference books:

Angsupakul, RN and Soper, J (1998). Animal, Land & Water, or Horticultural Science degrees. It creates an awareness of the role of experimental design and statistical analysis in the research process. It examines some useful mathematical techniques such as least squares, differentiation and integration as applied to growth curves and linear and non-linear modelling, especially via the use of computers. Basic statistical topics covered include: describing biological data and variability, sampling and estimation, framing biological hypotheses; estimating a single treatment mean via a confidence interval and testing for a particular mean via a z-test or t-test; estimating or testing the difference between two treatment means. The spreadsheet package Excel and the statistical package GenStat will be used for mathematical and statistical analysis and for graphical presentation.

Textbooks
No single text is recommended as extensive course notes are made available. Reference books:

BIOL 1001 Concepts in Biology
6 credit points. B A Agr Ec, B An Vet Bio Sc, B Anim Sc, B E, B Hort Sc, B L W Sc, B Med Sc, B N (A H), B N, B Sc, B Pharm, B Pharm (Rural), B Res Ec, B Sc, B Bio (Biometrics), B Sc (Environmental), B Sc (Marine Science), B Sc (Molecular Biology & Gene), B Sc Veterinary Science. Session: Semester 1, Summer. Classes: 3 lee & 3 hrs prac/wk. Assumed Knowledge: No previous knowledge required. Students are encouraged to take the Biology Bridging Course. Students who have completed HSC Biology are advised to enrol in BIOL101 Ecosystems to Genes rather than BIOL100. Prohibitions: BIOL (1101 or 1901). Assessment: One 2 hr exam, assignments, quizzes. NB: It is recommended that BIOL (1101 or 1901) be taken before all Semester 2 Junior units of study in Biology.

Concepts in Biology is an introduction to the major themes of modern biology. We start with introductory cell biology, which particularly emphasises how cells obtain and use energy. We then discuss the structure and function of microorganisms. The significance of
molecular biology is covered, working from the role of DNA in protein synthesis and development through to modern techniques and their uses. The genetics of organisms is then discussed, leading to consideration of the theories of evolution and the origins of the di-

versity of modern organisms. We bring all the aforementioned concepts together to develop an understanding of interactions between organisms in biological communities or ecosystems. Finally we discuss the significance of human impact on other living organ-

isms, with particular reference to finding solutions to problems in areas such as global warming, introduced pests, and extinctions.

The unit is designed so that lab classes and the field trip integrate with the lectures. Lab activities are carried out in groups so that team work skills are developed. This unit also incorporates a number of key generic skills such as written communication skills, discussion and data interpretation, and experimental design and hypothesis testing skills.

Textbooks

A Unit of Study Manual will be available for purchase from the Copy Centre during the first week of semester.

BIOI 1101 Biology - Ecosystems to Genes

6 credit points. B A, B Agr Ec, B An Vet Bio Sc, B E, B Hort Sc, B L W Sc, B Med Sc, B N, B N (A H), B N, B A, B N, B C, B Sc, B Pharm, B Pharm (Rural), B Res Ec, B Sc, B Sc (Bionformatics), B Sc (Environmental), B Sc (Marine Science), B Sc (Molecu-

lar Biology & Genetics), B Sc (Biotechnology), B Sc (Environmental), B Sc (Marine Science), B Sc (Molecu-

lar Biology & Genetics), B Sc (Biotechnology), B Sc (Environmental), B Sc (Marine Science).

Prerequisites: HSC 2-unit Biology or equivalent. Prohibitions: BIOI 1901 and/or 1902.

Assessment: One 2 hr exam, assignments, quizzes.

NB: Department permission required for enrolment.

A Unit of Study Manual will be available for purchase from the Copy Centre during the first week of semester.

BIOI 1902 Living Systems (Advanced)

6 credit points. B A, B Agr Ec, B An Vet Bio Sc, B Hort Sc, B Med Sc, B Sc, B Sc (Biotechnology), B Sc (Environmental), B Sc (Marine Science), B Sc (Molecu-

lar Biology & Genetics), B Sc (Nutrition), B Sc Agr.

Session: Semester 2. Classes: (3 lee & 2 h prac/wk).

Prohibitions: UAI of at least 93 and HSC Biology result in the 90th percent-

dle or better, or Distinction or better in a University level Biology unit, or by invitation.

Assessment: One 2.5 hr exam, assignments, quizzes.

This unit of study shares lectures and practical classes with BIOI 1002 but also includes more demanding alternative components of Living Systems

Textbooks
As for BIOI1001.

A Unit of Study Manual will be available for purchase from the Copy Centre during the first week of semester.

CHEM 1405 Chemistry

6 credit points. B An Vet Bio Sc, B Anim Sc, B V Sc. Dr Adrian George. Session: Semester 1. Classes: Lectures: 52 hours (Practicals: 27 hours (9 x 3 hr classes). Assumed Knowledge: HSC Chemistry. Assessment: Intrassemester: 4 x Quizzes (15%), Lab work (10%) and Exam (75%).

This is a one semester unit of study designed to provide (i) a suitable foundation for subsequent units of study such as biochemistry, animal nutrition, physiology and pharmacology, and (ii) a chemical background that will aid in the understanding, diagnosis and treatment of disease. It covers chemical theory, inorganic, physical, and organic chemistry with many examples from biological areas. It pre-supposes a satisfactory prior knowledge of HSC Chemistry. A total of 52 hours of lectures comprising 28 lectures in inorganic and physical chemistry and 24 lectures in organic chemistry.

Textbooks
Detailed information about prescribed texts is available from the School of Chemistry.

CROP 1001 Agricultural Science 1A

6 credit points. B Agr Ec, B An Vet Bio Sc, B Anim Sc, B Res Ec, B Sc (Molecular Biotechnology), B Sc Agr, UG Study Abroad Program. Assoc. Prof Rose, Prof. Burgess, Prof. Nicholas. Session: Semester 1. Classes: (3 lee & 3 hr prac/wk). Assumed Know-


This unit of study introduces the principles and practices of modern agriculture and examines the relationships between plants, animals and natural resources that make up agricultural production systems. The concepts of environmental and economic sustainability of agri-

cultural systems will be introduced.

Topics covered include Australian farming systems, regional agri-

cultural industries, farming operations and plant identification.

Textbooks

CROP 1002 Agricultural Science 1B


This unit of study develops the theme of environmental sustainability of agricultural production, and examines the physical principles which underpin agricultural systems. It examines the broad ecological relationships between the plants, animals and natural resources used in agriculture, and deals with some of the problems facing agriculture in the future. In addition, the static and dynamic forces involved in agricultural structures and equipment, the behaviour and properties of water in agricultural systems and the physical aspects of weather and the changing Australian climate will be discussed.

Textbooks

YEAR 2

The normal load is 48 credit points comprising 36 credit points of the core units listed, and 12 credit points of units from either (i) the Ecosystem Management and Animal Production stream or (ii) the Animal Biosciences stream.
CORE UNITS

AGCH 2004 Agricultural Chemistry

This introductory unit of study consists of aspects of chemistry relevant in agricultural and biological sciences including agriculture, food and the rural environment. Lecture topics include an introduction to quantitative aspects of bio-analytical chemistry; the principles of basic analytical methods such as spectroscopy, chromatography and electrochemistry; environmental aspects of water such as its behaviour as a solvent of hydrophobic solutes, surfactants, neutral hydrophilic solutes, salts and other electrolytes, and gases. A component of the unit will be devoted to basic biochemical processes in animals.

Angus & Robertson. ISBN 0 207 14454 0

Reference book

Resource Sciences. ISBN 0 86417 808 5

This unit of study extends the techniques considered in Biography 1, and considers problems of statistical design and analysis encountered in research in the biological, agricultural, horticultural, animal and environmental sciences. In practical classes the computer packages Minitab, GenStat and Excel are used extensively to analyse experimental data. We concentrate on the use of a revision text and two sample tests. We then consider the concepts of randomisation and replication; sampling and experimental units; controlling variability by blocking; analysis of variance for simple and factorial treatment designs; residual diagnostic techniques. Specific experimental designs studied include complete and randomised complete block designs; Latin square designs; split-plot designs. Next we consider linear relationships (regression, correlation) between two biological measurements; multiple linear regression; stepwise regression; analysis of covariance. We finish with a review of non-parametric analyses and the analysis of two-way contingency tables.

Textbooks


ENT 2002 Entomology and Parasitology
6 credit points. B An Vet Bio Sc, B Anim Sc, UG Study Abroad Program. A/Prof Nick Sangster. Session: Semester 2. Classes: 2 lec & 3 prac/wk; individual insect collection (1 hr/wk). Assessment: One 2 hr exam (50%), prac quizzes, test (35%), insect collection (15%).

This unit provides an introduction to insects and animal parasites. In Entomology, lectures include physiology, ecology and principles of insect control. In Parasitology, there will be three lectures per week covering the range of helminths (round and flatworms) infecting the internal organs of farm animals, including life cycles, parasite identification and biology, host/parasite relationships and control of parasite infections.

Entomology practicals deal with insect morphology and taxonomy including some information on economically important insect pests. Students must make a small but representative insect collection.

Parasitology practicals will deal with parasite identification, lifecycles and isolation of parasites and/or their eggs from faeces.

GENE 2001 Agricultural Genetics 2
6 credit points. B An Vet Bio Sc, B Anim Sc, B Hort Sc, B Sc Agr, UG Study Abroad Program. Dr Sharp, Dr Darvey, Dr Moran, Assoc. Prof. Nicholas. Session: Semester 1. Classes: 3 lec, 1 tut & 2 prac/wk. Prerequisites: BIOL1001 and BIOL1002 or BIOL (1901 or 1901) and BIOL 1902, BIOM1001 or BIOM1003. Assessment: One 3hr exam, tests, assignments.

This lecture and practical unit of study provides an introduction to the genetics and breeding of plants and animals. It provides an understanding of parallel and following courses. Lectures cover the basics of gene transmission and interaction; cytogentic, molecular genetics, population and quantitative genetics, as well as the more applied aspects of plant and animal breeding and biotechnology.

Practicals emphasise, with agricultural examples, the procedures of genetic and cygotenetic analysis, and the use of computers in simulation procedures in population genetics, quantitative inheritance and selection programs, and provide exposure to current plant and animal breeding and biotechnology.

MICR 2026 Microbes and Animal Health
6 credit points. B An Vet Bio Sc, B Anim Sc, Dr Andrew Holmes. Session: Semester 2. Classes: 2 lec & 3 prac/wk. Prerequisites: 12 credit points of Junior Biology. Prohibitions: MICR (2921 or 2921 or 2901 or 2903 or 2011 or 2009). Assessment: One 2 hr exam, bi-weekly on-line quiz project report and seminar. NB: Only available to students in the Bachelor of Animal Science or the Bachelor of Animal and Veterinary Bioscience.

This unit introduces the diversity of microbes in soil, water, air, plant and animal environments. Through an examination of their physiology and genetics it explores their interactions with plants, animals, and each other, and their roles as decomposers and recyclers in the environment. There are numerous interactions between animals and microbes that are present in healthy and diseased animals.

The basis of this interactions and their influence on animal development, growth, well-being and production will be explored. Practical classes introduce techniques and skills in isolating, quantifying and culturing microbes, designing and interpreting experiments to study microbial growth, and in preparing and presenting data. Students will understand the interactions of microbes and the host through an in vivo study.

Textbooks

Reference texts:

Ecosystem Management and Animal Production Stream


PLNT 2003 Plant Form and Function

6 credit points. B A Gr Ag Ec; B An Vet Bio Sc; B Anim Sc; B Hort Sc; B L W Sc; B Res Ec; B Sc; B Sc (Biometrics); B Sc (Environmental); B Sc (Marine Science); B Sc (Molecular Biology & Genetics); B Sc (Molecular Biotechnology); B Sc (Nutrition). B Sc Agr, UG Study Abroad. A/P amplitude; A/P Prof Robin Overall. 

Session: Semester 2. Classes: 2 lectures, 1hr tutorial and 1 prac; AV session (2.5h) or field tour. Prohibited: PLNT2903.

ASSIGNMENT: 1 hr theory exam (15%), prac exam (20%), project report (15%).

This unit of study investigates the structure of cells, tissues and organs of flowering plants and relates them to function. Topics include: how photosynthesis, translocation, water transport and nutrition relate to the structures that carry out these processes. Most of the information on plant structure will be provided in self-instructional audiovisual sessions augmented by small group discussions. This is integrated with experiments carried out in the laboratory or on field excursions to investigate the physiological aspects of plant structures.

There is a focus on recent advances in plant molecular biology where they have been critical in enhancing our understanding of the form and function of plants. The physiological and anatomical responses of plants to their environments such as drought and salinity will also be addressed. Attention will be paid to the anatomy and physiology of crop, horticultural and Australian native plants. This unit of study complements Applied Plant Biochemistry, Australian Floras: ecology and conservation and Cell Biology and leads onto senior units of study in plant sciences, including Plant Growth and Development. It is essential for those seeking a career in plant molecular biology.

Textbooks


Recommended reading


A Study Guide for the unit will be available for purchase from the Copy Centre during the first week of Semester.

SOIL 2003 Soil Properties and Processes

6 credit points. B Agr Ec; B An Vet Bio Sc; B Anim Sc; B Hort Sc; B L W Sc; B Res Ec; B Sc; B Sc (Environmental); B Sc Agr, UG Study Abroad Program. Dr Cattle, Prof McKendry, Dr Singh. 

Session: Semester 1. Classes: 3 lectures & 3 hr prac/week. Assessment: 1 hr theory exam, 1 hr prac exam, quizzes and prac book.

The unit of study is concerned with the fundamental properties of soil, the factors of soil formation, and the processes that operate in the soil system. The components of the unit of study are: the geology, soil physics and soil chemistry. These components are synthesised by reference to common soil profiles. The study of soil in the field starts with field description and assessment of essential characteristics. The physics of water and gas movement, temperature, density, swelling and strength are considered. Soil chemistry includes properties of organic matter, cation exchange capacity, nitrogen, phosphorus, potassium and acidity. Common soil types of N.S.W. are studied in relation to their formation, properties and classification.

Reference books


Animal Biosciences Stream

ANSC 3103 Animal Structure and Function 3A

6 credit points. B An Vet Bio Sc; B Anim Sc; B Hort Sc; B L W Sc; B Sc; B Sc (Molecular Biotechnology). B Sc Agr. Dr Melanie Collier. 

Session: Semester 1. Classes: lectures (2 hours/week), tutorials (1 hours/week), seminars/workshops (1 hours/week).


Assessment: One theory exam (50%), practical test (15%), assignments (35%).

Animal Structure and Function 3A will build on the understanding of animal form and operation that students have developed in prior Units, particularly ANSC 2002. In ANSF3A the structure and function of the digestive, endocrine and immune systems of the body are explored in depth. A study of animal behaviour and welfare is also an integral component of this unit. This Unit enables students to develop a three dimensional appreciation of the species differences in structure of the major visceral organs of the body through demonstrations and dissections and provides the basis for advanced, applied studies in Animal Nutrition.

The overall goals of the Unit are twofold. First, to enable students to develop a rich understanding of the relationships between body systems and structures (begun in ANSC 2002 and continued in ANSF3B). Second, to develop an appreciation of the links between structure, function and their relevance to animal production that will be further developed in 4th year Animal Production.

Textbooks

The recommended textbook for the animal structure component of the unit is:


Each student should purchase for the function component of this unit:


Handbook: A course handbook will be available for students to purchase. It contains details of lecture outlines, objectives, reference lists, details of practical classes, staffing as well as other relevant class material.

ANSC 3104 Animal Structure and Function 3B

6 credit points. B An Vet Bio Sc; B Anim Sc; B Hort Sc; B L W Sc; B Sc; B Sc (Molecular Biotechnology). B Sc Agr. Dr Melanie Collier. 

Session: Semester 2. Classes: Lectures (2 hours/week), tutorials (2 hours/week). Activities will vary on a weekly basis.

Requirements: ANSC2002, ANSC3103 OR ANSC 3101.

Assessment: One exam (55%), anatomy dissection project (15%), assignments (30%).

Through 80 hours of tutorials, practicals and workshops students in this Unit of Study will build on the concepts introduced, and skills acquired in ASF3 A. This unit will introduce topics not covered in ASF3 A and will integrate in livestock animals structure and function of the urinary tract, bone and skin, cardiovascular and nervous systems, avian structure, aquaculture and deer production. The concepts developed will be applied to analysis and resolution of problems in animal production.

Handbook- a comprehensive course handbook will be available. It contains details of practicals, assessments, lecture outlines and handouts, objectives, reference lists and textbooks, staffing.

Textbooks

For Animal Structure:


Smallwood, J.E. (1973) An introductory study to bovine anatomy. The author, Bryan, Texas

For Animal function:


YEAR 3

CORE UNITS

Ecosystem Management and Animal Production Stream

The normal load is 48 credit points comprising 24 credit points of the core units listed, and 24 credit points of electives chosen from those listed.

ANSC 3101 Animal Nutrition 3

6 credit points. B An Vet Bio Sc; B Anim Sc; B Hort Sc; B L W Sc; B Sc (Molecular Biotechnology). B Sc Agr. Dr Michelle Hyde. 

Session: Semester 2. Classes: Lectures: 3 hours/week; Tutorials: 0.5 hours/week. 


Assessment: Assignments - including web based problem solving exercises (50%), oral presentation (10%), written end of semester examination (40%).

This Unit of Study builds upon principles discussed in ANSC 2002 (Animal Science 2).

The Unit is broadly divided into four sections, namely:

- Estimating the nutritive value of feeds
- Estimating the nutrient requirements of animals
- Diet formulation
- Errors in feeding

The focus is on coming to an understanding of the assessment of nutritional adequacy and the avoidance and solving of nutritional problems, with a particular emphasis on animals used in agricultural production systems. The principles discussed in this course will be extended in ANSC 4001 and ANSC 4002 (Animal Production 4A and 4B) in the following year, in which species-specific systems will be described.

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The basis of successful feeding management is an understanding of the following:
- the composition of feeds
- the digestibility and efficiency of utilisation of nutrients by the animal
- the requirements of the animal for nutrients
- interactions between nutrients that influence health and production

and following from this an ability to:
- formulate diets to meet animal requirements for a variety of purposes and under a variety of constraints
- identify deficiencies, excesses and imbalances in diets and so avoid a decline in - productive efficiency and/or a decline in health

Textbooks

ANSC 3102 Animal Reproduction
6 credit points. B An Vet Bio Sc, B Anim Sc, B Hort Sc, B L W Sc, B Sc (Molecular Biotechnology), B Sc Agr. Prof G Evans. Session: Semester 1. Classes: lectures (2 hours/week) and tutorials (1 hours/week).

Prerequisites: ANSC2002. Assessment: One written exam (60%), practical report (20%), written and oral assignments (20%).

A comprehensive program on basic and applied male and female reproductive biology with particular emphasis on domestic animals. The unit of study includes reproductive cycles, sexual differentiation, fertilization, development, gestation and parturition. Applied aspects include tuition on semen collection and processing, control and management of reproduction, artificial insemination, embryo transfer, pregnancy diagnosis, and induction of parturition. Tuition is given on campus in Sydney and at the University Farms, Camden.

Textbooks

ANSC 3103 Animal Structure and Function 3A
6 credit points. B An Vet Bio Sc, B Anim Sc, B Hort Sc, B L W Sc, B Sc (Molecular Biotechnology), B Sc Agr. Dr Melanie Collier. Session: Semester 1. Classes: lectures (2 hours/week) and tutorials (1 hours/week), seminars/workshops (1 hours/week). Prerequisites: ANSC2002. Assessment: One theory exam (50%), practical test (15%), assignments/presentations (35%).

Animal Structure and Function 3A will build on the understanding of animal form and operation that students have developed in prior Units, particularly ANSC 2002. In AFS3A the structure and function of the digestive, endocrine and immune systems of the body are explained in depth. A study of animal behaviour and welfare is also an integral component of this unit. This Unit enables students to develop a three dimensional appreciation of the species differences in structure of the major visceral organs of the body through demonstrations and dissections and provides the basis for advanced, applied studies in Animal Nutrition.

The overall goals of the Unit are twofold. First, to enable students to develop a rich understanding of the relationships between body systems and structures (begun in ANSC 2002 and continued in ANSC 3102B). Second, to develop an appreciation of the links between structure, function and their relevance to animal production that will be further developed in 4th year Animal Production.

Textbooks

Each student should purchase for the function component of this unit: Carr, W.B. (1995) Structure and Function of Domestic Animals, CRC, Boca Raton. OR


Handbook: A course handbook will be available for students to purchase. It contains details of lecture outlines, objectives, reference lists, details of practical classes, staffing as well as other relevant course material.

ANSC 3104 Animal Structure and Function 3B
6 credit points. B An Vet Bio Sc, B Anim Sc, B Hort Sc, B L W Sc, B Sc (Molecular Biotechnology), B Sc Agr. Dr Melanie Collier. Session: Semester 2. Classes: lectures (2 hours/week), tutorials (2 hours/week). Activities will vary on a weekly basis. Prerequisites: ANSC2002, ANSC3103 OR ANSC 3101. Assessment: One exam (55%), anatomy dissection project (15%), assignments (30%).

Through 80 hours of tutorials, practicals, seminars and workshops students in this Unit of Study will build on the concepts introduced, and skills acquired in AFS3A. This unit will introduce topics not covered in AFS3A and will integrate in livestock animals structure and function of the urinary tract, bone and skin, cardiovascular and nervous systems, avian structure, aquaculture and deer production. The concepts developed will be applied to analysis and resolution of problems in animal production. Handbook- a comprehensive course handbook will be available. It contains details of practicals, assessments, lecture outlines and handouts, objectives, reference lists and textbooks, staffing.

Textbooks
For Animal Structure :
For Animal Function:

Animal Biosciences Stream

The normal load is 48 credit points comprising 12 credit points of the core units listed, and 36 credit points of electives chosen from those listed.

ANSC 3101 Animal Nutrition 3
6 credit points. B An Vet Bio Sc, B Anim Sc, B Hort Sc, B L W Sc, B Sc (Molecular Biotechnology), B Sc Agr. Dr Michelle Hyde. Session: Semester 2. Classes: Lectures: 3 hours/week; Tutorials: 0.5 hours/week. Prerequisites: ANSC2002. Assessment: Assignments - including web based problem solving exercises (30%), oral presentation (10%), written end of semester examination (40%).

This Unit of Study builds upon principles discussed in ANSC 2002 (Animal Science 2).

The Unit is broadly divided into four sections, namely:
- Identifying the nutritive value of feeds
- Estimating the nutrient requirements of animals
- Diet formulation
- Errors in feeding

The focus is on coming to an understanding of the assessment of nutritional adequacy and the avoidance and solving of nutritional problems, with a particular emphasis on animals used in agricultural production systems. The principles discussed in this course will be expanded in ANSC 4001 and ANSC 4002 (Animal Production 4A and 4B) in the following year, in which species-specific systems will be described.

The basis of successful feeding management is an understanding of the following:
- the composition of feeds
- the digestibility and efficiency of utilisation of nutrients by the animal
- the requirements of the animal for nutrients
- interactions between nutrients that influence health and production

and following from this an ability to:
- formulate diets to meet animal requirements for a variety of purposes and under a variety of constraints
- identify deficiencies, excesses and imbalances in diets and so avoid a decline in - productive efficiency and/or a decline in health

Textbooks

ANSC 3102 Animal Reproduction
6 credit points. B An Vet Bio Sc, B Anim Sc, B Hort Sc, B L W Sc, B Sc (Molecular Biotechnology), B Sc Agr. Prof G Evans. Session: Semester 1. Classes: lectures (2 hours/week) and tutorials (1 hours/week).

Prerequisites: ANSC2002, ANSC3103 OR ANSC 3101. Assessment: One written exam (60%), practical report (20%), written and oral assignments (20%).

A comprehensive program on basic and applied male and female reproductive biology with particular emphasis on domestic animals. The unit of study includes reproductive cycles, sexual differentiation, fertilization, development, gestation and parturition. Applied aspects include tuition on semen collection and processing, control and management of reproduction, artificial insemination, embryo transfer, pregnancy diagnosis, and induction of parturition. Tuition is given on campus in Sydney and at the University Farms, Camden.

Textbooks

ELECTIVE UNITS
Enrolment in elective units is subject to prerequisite and corequisite requirements and timetabling constraints.
AGCH 3025 Chemistry and Biochemistry of Foods A
6 credit points. B An Vet Bio Sc, B Hort Sc, B L W Sc, B Sc, B Sc (Environmental), B Sc (Nutrition), B Sc Agr. UG Study Abroad Program. Dr Robert Caldwell; Session 1. Classes: 3 lec/wk; 8 x 3 hr prac per semester. Prerequisites: 6 credit points of Intermediate units in Agricultural Chemistry, Chemistry or Biochemistry. Prohibitions: May not be counted with AGCH 3024. Assessment: One 2 hr theory exam, one 1 hr theory of prac exam, assignment and prac reports. This unit of study aims to give students an understanding of the constituents and functionality of foods; the chemical, biochemistry and processing behaviour of major food constituents - oligosaccharides, polysaccharides, lipids and proteins; the relationship between molecular structure of constituents and their functionality in foods; natural fibres and gel-forming biopolymers - uses in foods, importance in dietary fibre and commercial products; enzymes in foods and food processing; wheat flour dough and protein chemistry during baking and cooking; anti-nutritional and toxic constituents of plants and foods; and flavour chemistry. The laboratory exercises aim to give students an understanding of the methods used in the analysis of foods and other biological materials, and will include: - analysis of carbohydrates including starch and dietary fibre; - spectroscopic, enzymic, and chromatographic methods.

AGCH 3026 Chemistry and Biochemistry of Foods B
6 credit points. B An Vet Bio Sc, B Hort Sc, B L W Sc, B Sc, B Sc (Environmental), B Sc (Nutrition), B Sc Agr. UG Study Abroad Program. Dr Robert Caldwell; Session 1. Classes: 3 lec/wk; 8 x 3 hr prac per semester. Prerequisites: 6 credit points of Intermediate Chemistry, Biochemistry or Agricultural Chemistry. Corequisites: AGCH 3025. Prohibitions: AGCH 3003, AGCH 3005. Assessment: Four written assignments, one 1 hour mid semester exam, prac reports and poster presentation. This unit of study aims to give students an understanding of global food systems and global food security. In the lecture/seminar/workshop component, topics covered will include the sustainable production of major food crops; the role of genetically modified crops in food sustainability and quality; principles and methods in food quality control and assessment; chemical and biochemical aspects of food processing and functional quality to food processing and nutritional values. The laboratory exercises aim to give students an understanding of the methods used in the analysis of foods and other biological materials, and will include: - analysis and examination of protein functionality in foods; - spectroscopic, enzymic, and chromatographic methods.
may find the Excel spreadsheet “AssessmentAudit.xls” (available at this intranet site) useful in allocating assessment tasks through the unit.

This unit is concerned with the principles of resource allocation at the firm, industry and economy levels. The topics include: the nature of natural resource based production processes; production functions; factor substitution; constrained and unconstrained optimisation; principles of enterprise combination and multi-product production; input demands; cost functions and other dual relationships; economics of scale; size and scope in farming; principles of resource allocation over time; productivity and technical change; modelling risk in production processes; principles of resource allocation under risk and the illustration of the principles through the use of practical applications and exercises involving both the agricultural and resource industries. Textbooks D.L. Debertin Agricultural Production Economics 2nd edn (2002)

AGEC 3101 Agribusiness Management 6 credit points. B Agr Ec, B Vet Bio Sc, B Com, B Ec, B Soc Sc, B Hort Sc, B L W Sc, B Sc Agr, UG Study Abroad Program. A/Professor Fredoun Ahmadi-Esfahani. Session: Semester 2. Classes: (3 lee & 2 wkshp)/wk. Logistics: PREREQUISITES: AGEC2103 or AGEC2005 or AGEC1006 or (AGEC1003 and AGEC1004). PROHIBITIONS: AGEC1102; AGEC3101; AGEC3001. ASSESSMENT: a) Formal Assessment: [e.g. One 2hr exam, 2000w essay, tutorial papers, prac reports] One mid semester exam (1 hour) one final exam (2hrs), assignments] Out of class prescribed student workload (e.g. exercises, assignments) (Computer-based assignments) Other expected student workload (e.g. project reports, research, private study) A total of 12 hrs/wk for an average student seeking satisfactory results You may find the Excel spreadsheet “AssessmentAudit.xls” (available at this intranet site) useful in allocating assessment tasks through the unit. This unit is concerned with the function of economic productivity and techniques of business management to agribusiness firms, with a particular focus on farms. The topics covered will include: management goals and objectives; budgeting; gross margins analysis; pastoral and commercial livestock enterprises; cash flow and the financial analysis; simple systems simulation; applications of linear programming to farm and agribusiness planning; financial management; risk in decision-making; capital, debt and taxation management; evaluation of investment and firm growth alternatives; acquisition and transfer of assets; the role of financial institutions in the agricultural credit market. Students develop skills in computer-based farm planning. Textbooks J.B. Hardaker et al. Coping with Risk in Agriculture, 2nd edn (CABI, 2004) R.D.Kay et al. Farm Management, 5th edn (McGraw Hill, 2004)

AGRO 3002 Agronomy 3 6 credit points. B Agr Ec, B Vet Bio Sc, B Hort Sc, B L W Sc, B Sc Res Ec, B Sc Agr, UG Study Abroad Program. A/Professor Bruce Sutton. Session: Semester 1. Classes: 5 contact hours/wk, workshops and discussions (36 hr total), labs (26 hr total). PREREQUISITES: CROP 1001 or HORT 1001 or LWSC 1001. ASSESSMENT: PLNT 2003 or PLNT 2903. ASSESSMENT: One 2 hour exam, consultancy report, practical reports. Agronomy studies the practices and underlying concepts of sustainable crop and pasture production. The scientific basis of modern practices used in crop production, particularly those relevant to New South Wales, is examined. This knowledge is used to appreciate the scale of future problems such as climate change, soil degradation and increased costs of petrochemical-based inputs like fuel and fertilizer. Possible responses to these problems that will help maintain productivity will be examined. The relationship between agricultural production and natural resource management is also considered as part of a modern production environment, with the impact of recent legislation supporting Ecologically Sustainable Development on agriculture and the agricultural response to it as the focus of discussion. The practical classes will develop key skills appropriate to precision agriculture and use of current decision support systems. Textbooks

AGRO 3003 Crop Water Management 6 credit points. B Agr Ec, B Vet Bio Sc, B Hort Sc, B L W Sc, B Res Ec, B Sc Agr, UG Study Abroad Program. A/Professor Bruce Sutton. Session: Semester 2. Classes: Five student contact hours per week (65 h total); Workshops and discussions (36 h total) Laboratories (26 h total). PREREQUISITES: CROP 1001 or HORT 1001 or LWSC 1001. ASSESSMENT: PLNT 2003 or PLNT 2903. ASSESSMENT: One 2 hour exam, consultancy report, practical reports. The unit of study provides a scientific understanding and practical working knowledge of water management in dryland and irrigated agricultural systems, with most of the emphasis at the field scale. The first section of the unit examines the mechanisms underlying a crop water balance, its calculation and measurement and management options for as effectively as possible. The second section examines the major forms of irrigation, the scientific principles involved in each, their benefits and shortcomings and management to maximize water use efficiency. The practical classes will develop key skills appropriate to irrigation system management and use of current decision support systems. Textbooks


ANSC 3105 Animal Biotechnology 6 credit points. B An Vet Bio Sc, B Hort Sc, B L W Sc, B Sc Agr, UG Study Abroad Program. A/Prof Mack O’Neill. Session: Semester 1. Classes: 2 lee; 3 prac/wk, individual research lhr/wk. PREREQUISITES: BIOM 2001 or equivalent. ASSESSMENT: Reports (25%), Assignment (20%), Presentation (5%), Theory/Prac Examination (50%). All open book NB: (2 lee, 3 labs/wk)

This unit is designed for students who are interested in majoring in Biotechnology, or for students from other disciplines with an interest in further developing their skills in experimental design and advanced statistical modelling. It builds on the topics introduced in Biotechnology 2, and aims to give students sufficient skills and confidence to complete the analysis of their own research data in Fourth Year with a high degree of competence. We start by learning how to determine the number of replicates to use in an experiment. We revise multiple regression and extend the linear model to a time series system. We then examine how normally distributed data from designed experiments can be analysed in a general linear model framework, and hence how to cope with missing or incomplete data. The difference between maximum likelihood and residual maximum likelihood (REML) is studied for a single sample. A REML analysis is obtained for complete and incomplete factorial designs; for fixed, random and crossed models; for data that is censored from the right; and for data from more than one experimental unit. Next, we consider various techniques for the analysis of non-normal data, specifically: logistic regression for binary and proportion data; Poisson regression for count data; loglinear modelling for multi-way contingency tables; ordinal and non-parametric regression for scores & ratings. The assignment is to design and analyse a 4th year project.

BIOM 3004 Biometry 6 credit points. B An Vet Bio Sc, B Hort Sc, B L W Sc, B Sc Agr, UG Study Abroad Program. A/Prof Mack O’Neill. Session: Semester 1. Classes: 2 lee; 3 prac/wk, individual research lhr/wk. PREREQUISITES: BIOM 2001 or equivalent. ASSESSMENT: Reports (25%), Assignment (20%), Presentation (5%), Theory/Prac Examination (50%). All open book NB: (2 lee, 3 labs/wk)

This unit is designed to expand the understanding of, and technical competence in, microbiology, building on the knowledge and skills acquired in Microbiology 2021 or 2921. The lectures cover two broad topics: molecular microbiology of the organism and microbial biotechnology and applications. The molecular microbiology section covers aspects of microbial genetics and the structure and functioning of procaryotic cells. The microbial biotechnology section covers food and agricultural microbiology (production, spoilage and preparation, as well as the safety of foods) and aspects of public health and medical microbiology (host parasite relationships, host defence mechanisms, selected diseases, prevention of disease). Industrial microbiology deals with large scale production, traditional products, recombinant...
DNA products, biosensors and biocontrol agents, biodeterioration and bioremediation.

Practical classes enable the study of material which both complements and supplements the lecture topics.

Work experience

On completion of MICR 2022 or 2922, students who have successfully completed MICR2021 and are enrolled in the BSc or BSc (Advanced) may be offered the opportunity to undertake work experience for approximately one month in a microbiology laboratory of choice (hospital, food, research, environmental, etc.), subject to availability of places.

Textbooks

Prescott L M et al. Microbiology. 6th edn, WCB/McGraw-Hill, 2004

PLNT 2002 Aust Flora: Ecology and Conservation

6 credit points. B A Agr Ec, B A V Bio Sc, B Anim Sc, B Hort Sc, B L W Sc, B Res Ec, B Sc, B Sc (Bioinformatics), B Sc (Environmental), B Sc (Marine Science), B Sc (Molecular Biology & Genetics), B Sc (Molecular Biotechnology), B Sc (Nutrition), B Sc Agr, UG Study Abroad. Dr Glena Wardle & Dr Murray Henwood. Session: Semester I. Classes: 2 lectures, 1hr tutorial and 1 prac. Written examinations.

Assessment:

One 3hr theory exam, one 1hr prac exam, quizzes and prac book.

This unit of study is concerned with the fundamental properties of soil, the factors of soil formation, and the processes that operate in the soil system. The components of the unit of study are: pedology; soil physics and soil chemistry. These components are synthesised by reference to common soil profiles. The study of soil in the field starts with field description and assessment of essential characteristics. The physics of water and gas movement, temperature, density, swelling and strength are considered. Soil chemistry includes properties of organic matter, cation exchange capacity, nitrogen, phosphorus, potassium and acidity. Common soil types of N.S.W. are studied in relation to their formation, properties and classification.

Textbooks


Aust Flora: Ecology and Conservation


The year is devoted to advanced Animal Production and a certain degree of specialisation by medium of project work is compulsory. Students are in residence at the University Farms, Camden, for a whole year, where advanced lecture and practical courses are taken in the following subject areas: genetics, diet, animal health and disease. About 30 per cent of the time available is spent on project work, for which students undertake projects in the various sections of the Discipline of Animal Science at Camden or Sydney or other agricultural institutes outside the University.

Textbooks

Reference books

Agricultural Research Council The Nutrient Requirements of Farm Livestock, --No. 1. Poultry 2nd edn (1975)
--No. 2. Ruminants (1980)
--No. 3. Pigs (1981)

Alexander, G. and Williams, O.B. The Pastoral Industries of Australia (Sydney UP, 1983)

English, P.B. et al. The Sow. Improving Her Efficiency (Farm Press, 1977)


Holmes, C.W. and Wilson, G.F. Milk Production from Pastures (Butterworths, 1984)


Reut, L.M. Essential Immunology (Blackwell, 1988)


Nicholas, F.W. Introduction to Veterinary Genetics (Oxford, 1996)


Mphem T.B. Physiology of Lactation (Open University Press, 1987)

Whittemore, C. The Science and Practice of Pig Production (Longman, 1993)


Other textbooks to be advised

ANSC 4001 Animal Production 4A


GENE 4001 Animal Genetics 4A


The following subject areas are covered: meat technology, pig and poultry production, wool production, cattle and sheep production. Students will complete their research project.

Textbooks

See Animal Production 4A

ANSC 4002 Animal Production 4B


GENE 4001 Animal Genetics 4A


The following subject areas are covered: meat technology, pig and poultry production, wool production, cattle and sheep production. Students will complete their research project.
Domestic animals provide one of the most important sources of food and textile fibre for mankind. Animal Genetics provides one important means for improving the productivity of animals by selective breeding, for better understanding animal functions by understanding the roles of genes and gene products in those functions and for the identification and production of new and potentially valuable products from animals.

The fourth year Units of Study in (Animal) Genetics provide training in population and quantitative genetics and animal breeding, molecular and cell genetics, including bioinformatics, and cytogenetics sufficient to provide a sound basis for developing a career in the growing fields of genetics and biotechnology.

Animal Genetics 4A comprises the following components:
- Animal Genetics (6 credit points)
- Applications of Recombinant DNA technology (6 credit points)
- Bioinformatics & Genomics (6 credit points)
- Project (6 credit points)

Textbooks

GENE 4002 Animal Genetics 4B
24 credit points. B An Vet Bio Sc; B Sc Agr, UG Study Abroad Program. Prof Chris Moran/Dr Imke Tammen. Session: Semester 2. Classes: A one week intensive block of classes will be held during the July semester holiday for Cytogenetics. Corequisites: GENE4001. Assessment: The cytogenetics component will be assessed by an essay and exam. Research project assessed by dissertation.

On completion of both Animal Genetics 4A and 4B, students will have obtained an understanding of:
1. The behaviour of genes in populations.
2. The inheritance of quantitative traits, including susceptibility/resistance to disease.
3. The application of quantitative genetics to animal improvement.
4. Molecular genetics and recombinant DNA technology.
5. The tools and applications of bioinformatics.
6. The structure, behaviour and abnormalities of chromosomes in mitosis and meiosis.
7. The general principles of genetic experimentation and a basic familiarity with molecular genetic techniques.
8. Effective communication techniques by both oral and written means.
9. Research techniques by establishing and conducting a research project in one aspect of animal genetics.

In Animal Genetics 4B, students will complete the research component of the independent project begun in Animal Genetics 4A.

Animal Genetics 4B comprises the following components:
- Cytogenetics (an intensive 6 credit point unit of study presented in a one week block at PBI, Cobbitty, during the July semester holiday)
- Research Project (18 credit points)

Textbooks
A course handbook will be available for students to purchase. It contains details of lecture outlines, objectives, reference lists, details of practical classes, staffing as well as other relevant class material.
4. Tables of units of study

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "http://www.usyd.edu.au/handbooks/".

Bachelor of Veterinary Science
Table of Undergraduate units of study

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<tr>
<th>Unit of Study</th>
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<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>Q: Qualifying</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<td>VETS 1019</td>
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<td>A Basic understanding of biological principles. P VETS 1006 Animal Husbandry 1A</td>
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<td>VETS 1018</td>
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<td>VETS 2008</td>
<td>4</td>
<td>A VETS1021 Professional Practice 1A and VETS1017 Professional Practice 1B.</td>
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<td>VETS 2012</td>
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<td>VETS 2013</td>
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### 4. Tables of units of study

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<th>Unit of Study</th>
<th>CP</th>
<th>A: Assumed knowledge</th>
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<td>VETS 4331 Animal Husbandry Practical Report</td>
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<td>VETS 5347 Anaesthesia and Intensive Care (UVCS)</td>
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<td>VETS 5335 Small Animal Practice (Extramural)</td>
<td>5</td>
<td></td>
<td>P Veterinary Science Years 1-4 completed. Permit from Board of Veterinary Surgeons of NSW to perform Acts of Veterinary Science under supervision.</td>
<td>Semester 1, Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VETS 5336 Rural Mixed Practice 1 (UVCC)</td>
<td>5</td>
<td></td>
<td>P Veterinary Science Years 1-4 completed. Permit from Board of Veterinary Surgeons of NSW to perform Acts of Veterinary Science under supervision.</td>
<td>Semester 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VETS 5337 Rural Mixed Practice 2 (Extramural)</td>
<td>5</td>
<td></td>
<td>P Veterinary Science Years 1-4 completed. Permit from Board of Veterinary Surgeons of NSW to perform Acts of Veterinary Science under supervision.</td>
<td>Semester 1</td>
<td></td>
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</tr>
</tbody>
</table>

### Bachelor of Science (Veterinary)

<table>
<thead>
<tr>
<th>Unit of Study</th>
<th>CP</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>Q: Qualifying</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>VETS 4042 Veterinary Research A</td>
<td>24</td>
<td></td>
<td>P Veterinary Science Years 1, 2 and 3 or 1, 2, 3, and 4. CVETS4043</td>
<td>Semester 1</td>
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<tr>
<td>VETS 4043 Veterinary Research A</td>
<td>24</td>
<td></td>
<td>NB: Department permission required for enrolment.</td>
<td>Semester 2</td>
<td></td>
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</tr>
</tbody>
</table>

**Bachelor of Science (Veterinary)**
# BACHELOR OF ANIMAL AND VETERINARY BIOSCIENCE

<table>
<thead>
<tr>
<th>Unit of Study</th>
<th>CP</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>Q: Qualifying</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGEC 1006</td>
<td>6</td>
<td>A HSC Mathematics</td>
<td>N AGEC1003, AGEC1004.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ANSC 2002</td>
<td>6</td>
<td>P CROP1001, BIOL1001 OR BIOL1101</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>BIOM 1003</td>
<td>6</td>
<td>A 70 or more in HSC Mathematics</td>
<td></td>
<td></td>
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<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>BIOL 1001</td>
<td>6</td>
<td>A No previous knowledge required. Students are encouraged to take the Biology Bridging Course. Students who have completed HSC Biology are advised to enrol in BIOL1101. Ecosystems to Genes rather than BIOL1001. N BIOL (1101 or 1901) NB: It is recommended that BIOL (1001 or 1101 or 1901) be taken before all Semester 2 Junior units of study in Biology.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1, Summer</td>
</tr>
<tr>
<td>BIOL 1101</td>
<td>6</td>
<td>P HSC 2-unit Biology or equivalent. N BIOL (1001 or 1901)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>BIOL 1901</td>
<td>6</td>
<td>P UAI of at least 93 and HSC Biology result in the 90th percentile or better, or Distinction or better in a University level Biology unit, or by invitation. N BIOL (1001 or 1101) NB: Department permission required for enrolment. It is recommended that BIOL (1001 or 1101 or 1901) be taken before all Semester 2 Junior units of study in Biology.</td>
<td></td>
<td></td>
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<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>BIOL 1002</td>
<td>6</td>
<td>A HSC 2-unit Biology. Students who have not undertaken an HSC biology course are strongly advised to complete Biology Bridging Course before lectures commence. NBIOL1902</td>
<td></td>
<td></td>
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<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>BIOL 1902</td>
<td>6</td>
<td>P UAI of at least 93 and HSC Biology result in the 90th percentile or better, or Distinction or better in a University level Biology unit, or by invitation. N BIOL (1002 or 1902 or 1905) NB: Department permission required for enrolment.</td>
<td></td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>CROP 1001</td>
<td>6</td>
<td>A HSC Chemistry</td>
<td>N HORT1001, LWSC1001</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>CROP 1002</td>
<td>6</td>
<td>C CROP1001</td>
<td>N HORT1002, LWSC1002</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td><strong>YEAR 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGCH 2004</td>
<td>6</td>
<td>P CHEM1405</td>
<td>NAGCH2003</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ANSC 2004</td>
<td>6</td>
<td>N As the core component of this unit of study is run in conjunction with Veterinary Conservation Biology (VEITS2015) students must consult timetables to determine if subject choices prohibit them from attending these classes.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>BIOM 2001</td>
<td>6</td>
<td>P BIOM 1003 or equivalent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ENTO 2002</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>GENE 2001</td>
<td>6</td>
<td>P BIOL1001 and BIOL1002 or BIOL (1101 or 1901) and BIOL 1902, BIOM1001 or BIOM1003</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MIRC 2026</td>
<td>6</td>
<td>P 12 credit points of Junior Biology N MIRC (2021 or 2021 or 2001 or 2002 or 2003 or 2011 or 2909) NB: Only available to students in the Bachelor of Animal Science or the Bachelor of Animal and Veterinary Bioscience.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>PLNT 2003</td>
<td>6</td>
<td>A The content of BIOL (1002 or 1902) is assumed knowledge and students entering from BIOL (1003 or 1903) will need to do some preparatory reading. P 12 credit points of Junior Biology (or with the Dean's permission), BIOL1201 and BIOL1202 or BIOL1001 and ENV11001 N PLNT2903, BIOL2003, BIOL2903, CROP2001.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>SOIL 2003</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

The normal load is 48 credit points comprising 36 credit points of the core units listed, and 12 credit points of units from either (i) the Ecosystem Management and Animal Production stream OR (ii) the Animal Biosciences stream.

## CORE UNITS

### AGCH 2004
- Agricultural Chemistry
- P CHEM1405
- NAGCH2003
- Semester 1

### ANSC 2004
- Animal Conservation Biology
- N As the core component of this unit of study is run in conjunction with Veterinary Conservation Biology (VEITS2015) students must consult timetables to determine if subject choices prohibit them from attending these classes.
- Semester 2

### BIOM 2001
- Biometry 2
- P BIOM 1003 or equivalent
- Semester 1

### ENTO 2002
- Entomology and Parasitology
- Semester 2

### GENE 2001
- Agricultural Genetics 2
- P BIOL1001 and BIOL1002 or BIOL (1101 or 1901) and BIOL 1902, BIOM1001 or BIOM1003
- Semester 1

### MIRC 2026
- Microbes and Animal Health
- P 12 credit points of Junior Biology
- N MIRC (2021 or 2021 or 2001 or 2002 or 2003 or 2011 or 2909) NB: Only available to students in the Bachelor of Animal Science or the Bachelor of Animal and Veterinary Bioscience.
- Semester 2

## Ecosystem Management and Animal Production Stream

Candidates enrolling in the Ecosystem Management and Animal Production stream must enrol in ANSC3103 and ANSC3104 in year 3.
### Animal Biosciences Stream

<table>
<thead>
<tr>
<th>Unit of Study</th>
<th>CP</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>Q: Qualifying C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 3103 Animal Structure and Function 3A</td>
<td>6</td>
<td>P ANSC2002</td>
<td>ANSC3103 OR ANSC 3101</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ANSC 3104 Animal Structure and Function 3B</td>
<td>6</td>
<td>P ANSC2002</td>
<td>ANSC3103 OR ANSC 3101</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

### YEAR 3

#### CORE UNITS

**Ecosystem Management and Animal Production Stream**

The normal load is 48 credit points comprising 24 credit points of the core units listed, and 24 credit points of electives chosen from those listed.

<table>
<thead>
<tr>
<th>Unit of Study</th>
<th>CP</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>Q: Qualifying C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 3101 Animal Nutrition 3</td>
<td>6</td>
<td>P ANSC2002</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>ANSC 3102 Animal Reproduction</td>
<td>6</td>
<td>P ANSC2002</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ANSC 3103 Animal Structure and Function 3A</td>
<td>6</td>
<td>P ANSC2002</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ANSC 3104 Animal Structure and Function 3B</td>
<td>6</td>
<td>P ANSC2002</td>
<td>ANSC3103 OR ANSC 3101</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

### ELECTIVE UNITS

Enrolment in elective units is subject to prerequisite and corequisite requirements and timetabling constraints.

<table>
<thead>
<tr>
<th>Unit of Study</th>
<th>CP</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>Q: Qualifying C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGCH 3025 Chemistry and Biochemistry of Foods A</td>
<td>6</td>
<td>P 6 credit points of Intermediate units in Agricultural Chemistry, Chemistry or Biochemistry</td>
<td>6 credit points of Junior Biology or MBLG1001</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AGCH 3026 Chemistry and Biochemistry of Foods B</td>
<td>6</td>
<td>P 6 credit points of Intermediate Chemistry, Biochemistry or Agricultural Chemistry</td>
<td>6 credit points of Junior Agriculture or Environmental Science</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AGCH 3030 Rural Environmental Chemistry A</td>
<td>6</td>
<td>P 6 credit points of either Intermediate Agricultural Chemistry, Chemistry, Biochemistry, Plant Science or Environmental Science</td>
<td>6 credit points of Junior Agriculture or Environmental Science</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AGCH 3031 Rural Environmental Chemistry B</td>
<td>6</td>
<td>P 6 credit points of either Intermediate Agricultural Chemistry, Chemistry, Biochemistry, Plant Science or Environmental Science</td>
<td>6 credit points of Junior Agriculture or Environmental Science</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AGEC 2101 Market and Price Analysis</td>
<td>6</td>
<td>P ECON 1001 or AGEC 1006 or (AGEC1003 AND 1004)</td>
<td></td>
<td>6 credit points of Intermediate Economics</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AGEC 2102 Agribusiness Marketing</td>
<td>6</td>
<td>P AGEC 1006 or (AGEC1003 and AGEC1004) or AGEC 1102 or AGEC1002 or RSEC1031</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AGEC 2103 Production Economics</td>
<td>6</td>
<td>P ECON1001 or AGEC1006 or (AGEC1003 and AGEC1004)</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AGEC 3101 Agribusiness Management</td>
<td>6</td>
<td>P AGEC2103 or AGEC2003 or AGEC1006 or (AGEC1003 and AGEC1004)</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>AGRO 3002 Agronomy 3</td>
<td>6</td>
<td>A CROP 1001 or HORT 1001 or LWSC 1001</td>
<td></td>
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<td>Semester 1</td>
</tr>
<tr>
<td>AGRO 3003 Crop Water Management</td>
<td>6</td>
<td>A CROP 1001 or HORT 1001 or LWSC 1001</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>ANSC 3105 Animal Biotechnology</td>
<td>6</td>
<td>P GENE2001, ANSC2002</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>BIOM 3004 Biometry 3</td>
<td>6</td>
<td>P BIOM 2001 or equivalent</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MICR 2022 Applied Microbiology</td>
<td>6</td>
<td>A MICR (2021 or 2022 or 2024)</td>
<td>(6 credit points of Junior Biochemistry or MBIO1001) and 6 credit points of Junior Chemistry.</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>PLNT 2002 Aust Flora: Ecology and Conservation</td>
<td>6</td>
<td>P One of BIOL1001, BIOL1101, BIOL1901. One of BIOL1002, BIOL1003, BIOL1902, BIOL1903, LWSC1002. (With the Dean's permission BIOL1201 and BIOL1202 may be substituted for the above.)</td>
<td></td>
<td></td>
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<td>Semester 1</td>
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### Tables of units of study

<table>
<thead>
<tr>
<th>Unit</th>
<th>Study</th>
<th>CP</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>Q: Qualifying</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNT</td>
<td>Plant Form and Function</td>
<td>6</td>
<td>A The content of BIOL (1002 or 1902) is assumed knowledge and students entering from BIOL (1003 or 1903) will need to do some preparatory reading. P 12 credit points of Junior Biology (or with the Dean’s permission), BIOL1201 and BIOL1202 or BIOL1001 and ENVI1001 N PLNT2903, BIOL2003, BIOL2903, CROP2001.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>SOIL</td>
<td>Soil Properties and Processes</td>
<td>6</td>
<td></td>
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<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

### YEAR 4

| ANSC   | Animal Production 4A         | 24 | P ANSC3001, ANSC3002, ANSC3003 |                  |               |                |                | Semester 1    |
| ANSC   | Animal Production 4B         | 24 | P ANSC3001, ANSC3002, ANSC3003 |                  | C ANSC4001    |                |                | Semester 2    |
| GENE   | Animal Genetics 4A           | 24 | A GENE 2001               |                  |               |                |                | Semester 1    |
| GENE   | Animal Genetics 4B           | 24 | C GENE4001                |                  |               |                |                | Semester 2    |
5. Regulations

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [http://www.usyd.edu.au/handbooks/](http://www.usyd.edu.au/handbooks/).

(Subject to Senate approval) These Resolutions must be read in conjunction with The University of Sydney (Coursework) Rule 2000.

Resolutions of the Senate
* Enquiries about Faculty Resolutions should be directed to the Faculty Office.

Constitution of the Faculty of Veterinary Science
The Faculty of Veterinary Science shall comprise the following persons:
1. (a) the academic staff at levels A, B, C, D and E, being full-time or fractional (50 per cent or greater) members of the tenured, tenurable and fixed term teaching staff within the Faculty;
(b) the Head of the School of Chemistry, and the Head of the Department of Crop Sciences, or one full-time tenured member of the academic staff of each of these units nominated by the Head of that unit;
(c) Deans of non-veterinary faculties in the College of Sciences and Technology;
(d) the Directors of Laboratory Animal Services and the Properties and Investments Office and the Coordinator Library Services (Life Sciences);
(e) up to three persons distinguished in the field of Veterinary Science appointed by the Faculty on the nomination of the Dean of the Faculty;
(f) up to three students (two undergraduates and one postgraduate) elected in the manner prescribed by resolution of the Senate;
(g) up to four members of the general staff elected by the general staff in the manner laid down by the Faculty;
(h) one nominee from each of the Australian College of Veterinary Scientists and the Australian Veterinary Association;
(i) the Directors of the Postgraduate Foundation in Veterinary Science, the Dairy Research Foundation, the Poultry Research Foundation, and the Veterinary Science Foundation;
(j) the research staff of the Faculty, being full-time or fractional (50 per cent or greater), holding the position of Research Fellow or above;
(k) Senior Registrars and Registrars, being full-time or fractional (50 per cent or greater) employed in the University Veterinary Centres at Camden and Sydney;
(l) persons holding adjunct or clinical titles within the Faculty; and
(m) any other persons appointed by the Senate on the nomination of the Dean of the Faculty and with the approval of the Faculty and the Academic Board.
2. All nominees to the Faculty shall be appointed triennially.

Degrees, diplomas and certificates in the Faculty of Veterinary Science
1. The degrees in the Faculty of Veterinary Science shall be:
   (a) Bachelor of Veterinary Science (BVSc)
   (b) Bachelor of Science (Veterinary) (BSc (Vet))
   (c) Bachelor of Animal and Veterinary Bioscience (BAnVetBioSc)
   (d) Master of Animal Science (MAnimSc)
   (e) Master of Science in Veterinary Science (MScVetSc)
   (f) Master of Veterinary Clinical Studies (MVetClinStud)
   (g) Master of Veterinary Science (MVSc)
   (h) Master of Veterinary Studies (MVetStud)
   (i) Master of Veterinary Public Health Management (MVPHMgt)
   (j) Doctor of Philosophy (PhD)
   (k) Doctor of Veterinary Science (DVSc).
2. The diplomas in the Faculty of Veterinary Science shall be:
   (a) Graduate Diploma in Animal Science (GradDipAnimSc)
   (b) Graduate Diploma in Veterinary Clinical Studies (GradDipVetClinStud)
   (c) Graduate Diploma in Veterinary Public Health Management (GradDipVPHMgt)
   (d) Graduate Diploma in Veterinary Science (GradDipVetSc)
   (e) Graduate Certificate in Animal Science (GradCertAnimSc)
   (f) Graduate Certificate in Veterinary Public Health Management (GradCertVPHMgt)

Bachelor of Veterinary Science, BVSc
These resolutions must be read in conjunction with The University of Sydney (Coursework) Rule 2000.

Section 1

1. Admission
Admission for Year 12 applicants is based on performance in Higher School Certificate Examination with applicants ranked on the basis of their UAI. Non recent school leavers are considered for selection on the basis of their Grade Point Average obtained in previous university degree level study, the Special Tertiary Admissions Test (STAT) and a "Commitment Statement" outlining their commitment to Veterinary Science

2. Units of study
A candidate for the degree of Bachelor of Veterinary Science shall successfully complete the units of study as prescribed by the Faculty in chapter 3 of this Handbook.

3. Requirements for the pass degree
   (1) To qualify for the pass degree candidates must:
       (a) complete successfully the units of study prescribed by the Faculty to a total of 240 credit points; and
       (b) satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.
   (2) Progression requirements
Under normal circumstances students will satisfy the degree requirements in five years. Students who fail a unit of study are required to repeat enrolment in that unit. Students repeating units of study may, with permission of the Faculty, enrol in one or more units of study in the following year of the course. The Faculty will normally grant permission for students to enrol in a unit of study in the following year when:
       (a) the timetable arrangements are such that students can attend all classes
       (b) all prerequisites for enrolment in the unit of study have been satisfied. Prerequisites are units of study that must be passed before enrolment in the next unit. Corequisites are units of study that must be studied concurrently.

Year 4: A candidate for the degree may enrol in the units of study prescribed for the fourth year of candidature only after completion of Years 1-3.
Year 5: A candidate for the degree may enrol in the units of study prescribed for the final year of candidature only after completion of Years 1-4 and having demonstrated proficiency in the safe handling of animals, in such a manner as may from time to time be prescribed by the Faculty.

4. Combined degrees
Not applicable

5. Requirements for honours degrees
   (1) Honours First Class and Honours Second Class may be awarded at graduation.
Prerequisite to enrolment in any Rotation in Veterinary Science Year 5 is the acquisition of a permit or equivalent from the Board of Veterinary Surgeons of NSW to perform acts of veterinary science. There are certain circumstances in which a student could be asked to show good cause why they should be permitted to repeat any previously attempted study. Liability for exclusion from re-enrolment is determined by academic attainment during the immediate past one or two academic years (depending upon the faculty, college or board of studes concerned). The resolutions of the Senate restricting re-enrolment may be found in the University's Calendar, Vol. I: Statutes and Regulations. Students should acquaint themselves with the resolutions relating to the studies in which they are enrolled.

Students in any doubt about their liability for exclusion following academic failure, unsatisfactory progression or discontinuation of courses should seek advice from the Faculty Office. It is not possible to define in advance all the reasons that constitute "good cause" but serious ill health, or misadventure properly attested, will be considered. In addition a student's general record, for example in other courses, would be taken into account. In particular where a student transfers from another faculty, record of performance in that faculty would be considered. Not usually acceptable as good cause are such matters as demands of employers, pressure of employment, time devoted to non-university activities and so on, except as they may be relevant to any serious ill health or misadventure.

5. Discontinuation of enrolment

Students contemplating discontinuing should consult the Sub-Dean for students or a student counselor before committing to a decision. Students enrolled in a course for a degree in the Faculty of Veterinary Science and, without permission of the Faculty, discontinue a year or a full-year unit of study after the last day of the first week of July semester, or discontinue a one-semester unit after the last day of the seventh week of teaching, will be deemed to have failed such year or unit. (See page ii in the front of the Faculty handbook.) The University's regulations governing "Discontinuation, Exclusion and Suspension of Candidature" are available at www.usyd.edu.au/policy/policy-index.stm

6. Re-enrolment after an absence

A candidate who has been enrolled in the course for the degree of Bachelor of Veterinary Science but has not re-enrolled for a period of one year or more shall complete the requirements for the degree under such conditions as the Faculty may determine.

7. Satisfactory progress pursuant to The University of Sydney (Coursework) Rule 2000

Under normal circumstances students will satisfy the degree requirements in five years. Students who fail a unit of study are required to repeat enrolment in that unit. Students repeating units of study, may, with permission of the faculty, enrol in one or more units of study in the following year of the course. The Faculty will normally grant permission for students to enrol in a unit of study in the following year when:

(1) the timetable arrangements are such that students can attend all classes;
(2) all prerequisites for enrolment in the unit of study have been satisfied. Prerequisites are units of study that must be passed before enrolment in the next unit. Corequisites are units of study that must be studied concurrently. The handbook provides details of prerequisites and corequisites for all units of study. The Faculty may waive prerequisite or co-requisite requirements if a student demonstrates that such requirements are not appropriate. Applications for such waivers should be submitted to the Associate Dean for Teaching and Learning.

8. Time limit if different from The University of Sydney (Coursework) Rule 2000

A student must complete all requirements for an award course within ten calendar years or any lesser period if specified by Resolutions of the Senate or the faculty.

9. Assessment policy

Assessment methods for units of study offered by the Faculty are published annually in the Veterinary Science Handbook, chapter 3 units of study.
Further Assessment

Students awarded an incomplete (INC or INC) grade need to undertake further assessment in order to pass the unit of study. Students in this category will be advised of the availability of a further test. Further tests will be organized and scheduled by the unit of study Coordinator concerned.

Students with disabilities, medical conditions or injuries Students with a disability, including serious medical condition, or recent injury, which puts them at a disadvantage during examinations, should contact the Disability Services Office, Level 7, Education Building, Manning Road. Phone +61 2 9351 4554, fax +61 2 9351 7055. If appropriate, special arrangements can be made to meet particular requirements.

Illness and misadventure - "Special Consideration" regarding examinations (Please contact the Faculty Office for full details of application procedure.)

Your attention is drawn to the following resolutions of the Academic Board.

Applications for special consideration must be made on the form available from the Student Centre or the Faculty Office or the Faculty website and must comply with the University's requirements for supporting documentation.

For consideration due to serious illness a registered medical practitioner or councilor must complete the Professional Practitioners Certificate.

For consideration due to misadventure appropriate documentation must be attached. This documentation must indicate the nature of the misadventure, the date and time where relevant, and the likely impact on the student's ability to perform.

The Professional Practitioners Certificate is available from the Student Centre, Faculty Office or Faculty website. The certificate must be signed by the medical practitioner (who must not be a family member) and must have been obtained during the illness or immediately afterwards (as soon as it is practicable to visit the medical practitioner).

NB: This is a summary of the Faculty's and University's policy relating to special consideration. Please read the full policy which may be viewed on the Faculty and University websites.

It is the responsibility of the student to provide written evidence of illness or misadventure to the appropriate unit of study coordinator as soon as possible and practicable and in any case before the close of the relevant examination period. Where such evidence is not presented in time for the student to be offered further assessment on the advertised date, it will only be considered by the unit of study coordinator where there is sufficient reason why it has not been presented by that date.

Please note that special consideration will NOT be granted in respect of any additional assessment. Unsatisfactory performance in, or absence from, additional assessment will result in failure in that assessment.

Additional Assessment

If an application for special consideration is approved, the student will be offered additional assessment. This additional assessment will REPLACE any previous attempt - that is, if a student is offered additional assessment, THE ORIGINAL EXAMINATION PAPER WILL NOT BE MARKED. The only examination which will be considered is the additional assessment task. Please note that the format of the additional assessment is at the discretion of the coordinator and need not be similar to the original assessment. Oral examinations are certainly possible.

10. Credit transfer policy in accordance with The University of Sydney (Coursework) Rule 2000 and Academic Board policy

Credit for courses completed

Students who have already completed university study may be eligible for credit standing in specific units of study. Credit standing may be granted under the following circumstances:

(1) The student's application substantiates that the content of the unit(s) put towards the unit in which credit standing is sought, will be rejected, even if the vital component constitutes less than 75 per cent of the unit; and

(2) Relevant previous study took place within five years preceding the year in which credit standing would apply;

(3) The previous study was in a relevant context to the unit for which credit standing is sought: this "relevant context" to be determined by the unit of study coordinator;

(4) The grade achieved in the previous study (studies) was credit or above.

Students must be enrolled in the undergraduate degree program before an application for credit standing will be accepted. An exception is made for Year 1 international students who, upon receipt of the confirmation of enrolment (COE) in the degree program, may apply for credit standing in any unit in which they are required to enrol in their first year of study. Students may submit their application from overseas and obtain a provisional judgement. The provisional judgement will be confirmed when all original relevant documents are viewed by the relevant academic staff of this University.

The application (Faculty form), together with all relevant supporting documentation must be submitted to the Faculty Office at least three weeks prior to the commencement of semester in which enrolment in the unit is required. If students wish to lodge an early application, applications will be accepted up to 12 months in advance.

Relevant supporting documentation should include a detailed unit/subject/course outline (eg class topics on timetable), learning objectives, mode of assessment and original statement of academic result or academic credit.

Students with credit standing will be granted the average mark attained by their peers (undertaking the unit in the year in which their enrolment would have been required) for the purpose of calculation of the weighted average mark (WAM) in relation to their eligibility for an honours degree.

Bachelor of Animal and Veterinary Bioscience, BAnVetBioSc

Section 1

1. Admission

Admission for Year 12 applicants is based on performance in Higher School Certificate Examination with applicants ranked on the basis of their UAI or equivalent.

Non recent school leavers are considered for selection on the basis of:

(1) the successful completion of the equivalent of at least 2 full-time semesters of approved tertiary study; or

(2) the successful completion of an approved preparatory course provided that the program of study and the standard of examination are considered to be equivalent to the program and standard required of candidates for the HSC.

2. Units of study

A candidate for the degree of Bachelor of Animal and Veterinary Bioscience shall successfully complete units of study as prescribed by the Faculty.

A candidate may choose elective units of study for which there is no prerequisite unit of study or for which the prerequisite/corequisite has been satisfied, provided that the timetable permits attendance at all classes.

3. Requirements for the pass degree

(1) To qualify for the pass degree candidates must:

(a) complete successfully the units of study prescribed by the Faculty for a total of 192 credit points and Professional Experience specified for the degree course; and

(b) satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

4. Requirements for honours degrees

(1) Honours First Class and Honours Second Class, Division One or Division Two may be awarded at graduation.

(2) First Class Honours candidates whose work is of sufficient merit, shall receive a bronze medal.

Award of honours at graduation

(1) All candidates who have completed an independent research project as part of the final year degree program are formally eligible to be considered for honours. Except with the special permission of the Faculty, honours shall not be awarded to any candidate for the Bachelor of Animal and Veterinary Bioscience.
Biosciences unless the candidate has completed the course in the minimum time. Notwithstanding the previous condition, candidates who complete the first three years of the course in four years, and who by virtue of their weighted average marks would otherwise qualify for the award of honours, will be considered. Such candidates may however be disadvantaged in terms of honours grading and ranking.

(2) For the determination of the overall honours mark for the award of honours at the end of the Fourth Year:
(a) each of the units of study provided for in the resolutions in Second and Third Years shall be weighted according to credit point value and a weighted average mark (WAM) obtained;
(b) the overall honours mark shall be the average of the Second and Third Year WAM and the Fourth Year mark.

(3) In computing the aggregate marks of students, the mark achieved on the first attempt at a unit of study shall be the mark used.

(4) For the award of a particular level of honours, a candidate, except in special circumstances, must obtain the relevant minimum marks as set out in the following table:

<table>
<thead>
<tr>
<th>Level of honours</th>
<th>Minimum overall honours mark</th>
<th>Minimum WAM Year 4</th>
<th>Minimum WAM Years 2/3</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Class</td>
<td>75</td>
<td>75</td>
<td>70</td>
</tr>
<tr>
<td>Second Class</td>
<td>66</td>
<td>70</td>
<td>63</td>
</tr>
<tr>
<td>Division 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Second Class</td>
<td>61</td>
<td>65</td>
<td>58</td>
</tr>
<tr>
<td>Division 2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(5) The Board of Management shall be responsible for the award of the university medal and the award of honours. Achievement of the minimum standards referred to elsewhere in these resolutions is not in itself sufficient justification for these awards.

Resolutions of the Faculty

Section 2

1. Details of units of study
Course content, mode of delivery, assessment, assumed knowledge, corequisites and prerequisites for all units of study are published annually in the Veterinary Science Handbook, Section 3 of units of study.

2. Enrolment in more/less than minimum load
In a full-time program the normal load will be 48 credit points in each year for four years.
A student may enrol in units of study additional to the requirements in an academic year, only with the permission of the Dean.

Part-time study for the Bachelor of Animal and Veterinary Biosciences is permitted.

3. Cross-institutional study
Provided that permission has been obtained in advance, the Dean may permit a student to complete a unit of study at another institution and have that unit credited to his/her course requirements provided that either:
(1) the unit of study content is material not taught in any corresponding unit of study in the University, or
(2) the student is unable for good reason to attend a corresponding unit of study at the university.

4. Restrictions on enrolment
A student must obtain the written permission of the Dean to enrol in level 3000 units of study unless he/she has successfully completed or is concurrently enrolled in compulsory level 2000 units of study. A candidate may choose elective units of study for which there is no prerequisite unit of study or for which the prerequisite/corequisite has been satisfied, provided that the timetable permits attendance at all scheduled classes.

5. Discontinuation of enrolment - any faculty procedures
A student who wishes to discontinue enrolment in a course or a unit of study must apply to the Dean or the Dean’s nominee.

Students enrolled in a course for a degree in the Faculty of Veterinary Science and, without permission of the Faculty, discontinue a year or a full-year unit of study after the last day of the first week of July semester, or discontinue a one-semester unit after the last day of the seventh week of teaching, will be deemed to have failed such year or unit.

The university’s regulations governing ‘Discontinuation, Exclusion and Suspension of Candidature’ are available at: http://db.usyd.edu.edu.au/policy/policy_index.stm

6. Re-enrolment after an absence
Students who wish to re-enrol after an absence must contact the Dean in writing no less than six weeks prior to commencement of the semester to allow administrative processes to be carried out.

7. Satisfactory progress pursuant to the University of Sydney (Coursework) Rule 2000
Under normal circumstances students will satisfy the degree requirements in four years.
There are certain circumstances in which a student may be asked to show good cause why he/she should be permitted to repeat any previously attempted study. If, in the opinion of the Faculty Exclusions and Re-admissions Committee, he/she has not made satisfactory progress towards fulfilling the requirements of the degree or the unit. Satisfactory progress cannot be defined in all cases in advance but a student who has:
(1) twice failed (F), or discontinued enrolment to count as a failure (DF), any unit of study as defined in Resolution 2 relating to the Bachelor degrees of the Faculty; or
(2) failed more than 60 per cent of the credit points for which enrolled in any four successive semesters, shall be deemed not to have made satisfactory progress.

In cases where the Faculty permits the re-enrolment of a student whose progress has been deemed unsatisfactory, the Faculty may require the completion of specified units of study in a specified time, and if the student does not comply with these conditions the student may again be called upon to show good cause why he/she should be allowed to re-enrol in the Faculty of Veterinary Science.

It is not possible to define in advance all the reasons that constitute “good cause” but serious ill health, or misadventure properly attested, will be considered. In addition your general record, for example in other courses, would be taken into account. In particular if you were transferring from another faculty your record in your previous faculty would be considered. Not usually acceptable as good cause are such matters as demands of employers, pressure of employment, time devoted to non-university activities and so on, except as they may be relevant to any serious ill health or misadventure.

8. Assessment policy
Assessment methods for units of study offered in the Faculty will be included in unit details in the Faculty Handbook and made available to students enrolled in the units at the beginning of the semester.

Examinations
(1) Completion of unit of study
A student who has been absent from more than ten per cent of classes in a unit may be deemed to have failed to complete the requirements specified by the Faculty for the unit and may be excluded by the Dean from admission to examinations in that unit.
(2) Further assessment
The unit of study coordinator may arrange for further assessment of students in addition to scheduled assessments and examinations, in accordance with the Faculty Special Consideration policy.

Further assessment
(1) Further assessment may be awarded where the candidate has been prevented by sufficient and duly certified illness or misadventure from completing the assessment for a unit of study. The full range of common result grades is available for these candidates.
(2) Applications for special consideration must be made on the form available from the Student Centre or the Faculty Office and must comply with the University’s requirements for supporting documentation.

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NB This is a summary of the Faculty's and University's policy relating to special consideration which may be viewed on the Faculty and University websites.

(3) Further assessments will be held according to a timetable which will be posted on the Faculty website. Further assessment may take such form as the unit of study coordinator directs.

(4) A candidate who is absent from a further assessment without sufficient reason will be deemed to have failed the assessment.

(5) It is the responsibility of the student to provide written evidence of illness or misadventure to the appropriate unit of study coordinator as soon as possible and practicable and in any case before the close of the relevant examination period. Where such evidence is not presented in time for the student to be offered further assessment on the advertised date, it will only be considered by the unit of study coordinator where there is sufficient reason why it has not been presented by that date.

9. Credit Transfer policy

(1) Graduates or students in other faculties or other degrees within the Faculty or of other institutions who are admitted to candidature for the degree of Bachelor may be granted credit for units of study required for the degree, as the Dean on behalf of the Faculty may determine, up to a maximum value of 96 credit points.

(2) The Dean may approve credit for a maximum of 36 unspecified credit points for units of study successfully completed elsewhere, but not comparable to units listed in Resolution 2, as part of the 96 credit point maximum credit transfer permitted.

10. Professional Experience and Faculty Excursions

(1) Students are required to undertake professional experience in University vacations as an integral and essential part of their overall training in the degree of Bachelor of Animal and Veterinary Bioscience.

The aims of professional experience are to:

(a) familiarise students with the major animal, agricultural or natural resource industries;

(b) provide the opportunity to experience animal, agricultural and horticultural production across a range of environments and managerial systems;

(c) provide experience with business organisations involved in finance, marketing, research and development and other aspects of the rural industries;

(d) train students to collect, collate, analyse and report.

(2) Candidates must complete 60 days of professional experience. Each component of the experience must be approved on behalf of the Dean before credit is granted. A minimum of 20 days professional experience must be completed as on-farm experience covering the major animal industries: sheep, beef, dairy, pigs, with a maximum visit of 20 days with any single organisation (farm or non-farm). A maximum of 15 days may be credited on property which is owned by the candidate's parents or by the University, however, this time is in addition to and exclusive of the minimum 20 days on-farm requirement.

(3) It is a requirement that on-farm experience includes:

(a) experience in 2 different regions (and not adjacent shires);

(b) experience in 2 rural enterprises.

A significant proportion of this 20 day on-farm component should be completed before non-farm professional experience is undertaken. The farms concerned must be commercial farms not hobby farms. Commercial farms are defined as those having a gross income of at least $25,000.

(4) A separate report must be submitted following each visit to a farm or organisation. Credit is subject to a satisfactory and timely report. Late reports normally are not credited. Time penalties are applied to resubmitted and incomplete reports. A senior report must be completed on a commercial farm. (A maximum of 5 "General Reports" can be credited.)

(5) Students are required to attend one of the North Western, Central or South Western NSW excursions arranged by the Faculty of Agriculture, Food and Natural Resources and may attend each one. A maximum of 15 days professional experience may be gained by attending Faculty excursions provided a satisfactory report is submitted for each excursion. The Dean may approve special activities which will be credited within the 15 day week. Excursion time is exclusive of your 20 day on-farm requirement.

(6) Final year students wishing to graduate must complete all practical work requirements by 14 January of the year of graduation.

Reports from graduands submitted after 14 January will not be marked until the July semester.

Bachelor of Science (Veterinary), BSc(Vet)

Section 1

1. Admission

(1) Candidates for the degree of Bachelor of Veterinary Science who:

(a) have completed not less than three years of candidature for the degree of Bachelor of Veterinary Science; and

(b) are considered to be suitable candidates for advanced work; may be permitted by the Faculty to interrupt their candidature for the degree of Bachelor of Veterinary Science for not more than one academic year to undertake an approved course of advanced study and research as a candidate for the degree of Bachelor of Science (Veterinary).

(2) In response to an application for candidature, the Sub-Dean for BSc(Vet) will, in consultation with the candidate, and the proposed supervisor, ensure that the Faculty's requirements are satisfied in respect of:

(a) eligibility of the candidate;

(b) the proposed field of study;

(c) prerequisite training;

(d) appropriate supervision;

(e) the adequacy of other resources; and

(f) the proposed date of examination.

2. Units of study

A candidate for the degree of Bachelor of Science (Veterinary) shall successfully complete the units of study as prescribed by the Faculty in chapter 3 of this Handbook.

3. Requirements for the pass degree

(1) To qualify for the pass degree candidates must:

(a) complete successfully the units of study prescribed by the Faculty for a total of 48 credit points;

(b) satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

4. Requirements for honour degrees

(1) Completion of the pass level requirements at an honours grade level qualifies a candidate for award of the degree with honours.

(2) The grades for the award of honours in the BSc (Vet) course comply with Academic Policy 218.

The grades are:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Class</td>
<td>80–100</td>
</tr>
<tr>
<td>Second Class, Division 1</td>
<td>75–79</td>
</tr>
<tr>
<td>Second Class, Division 2</td>
<td>70–74</td>
</tr>
<tr>
<td>Third Class</td>
<td>65–69</td>
</tr>
<tr>
<td>Honours not awarded</td>
<td>&lt;65</td>
</tr>
</tbody>
</table>

5. Regulations
Section 2

1. Details of units of study
Course content, mode of delivery, assessment, assumed knowledge, corequisites and prerequisites for all units of study are published annually in the Veterinary Science Handbook, chapter 3 units of study.

2. Enrolment in more/less than minimum load
A normal full-time load is defined as enrolment in a program of approved units of study to a total value of 24 credit point in any one semester.

3. Cross-institutional study
Candidates working outside the Faculty, in departments with guidelines and requirements for science Honours or BSc(Med) students, should follow where possible such departmental requirements, except where these conflict with the regulations for the BSc(Vet) degree.

4. Restrictions on enrolment
The course of advanced study and research shall be in a field of scientific investigation for which adequate pre requisite training has been obtained and for which appropriate supervision and facilities are available.
Applications for admission to candidature for the degree of Bachelor of Science (Veterinary) may be approved by the Dean.

5. Discontinuation of enrolment
(1) Students contemplating discontinuing should consult the Sub-Dean for students or a student counsellor before committing to a decision.
(2) Students enrolled in a course in a degree in the Faculty of Veterinary Science and, without permission of the Faculty, discontinue a year or a full-year unit of study after the last day of the first week of July semester, or discontinue a one-semester unit after the last day of the seventh week of teaching, will be deemed to have failed such year or unit.
(3) The university’s regulations governing “Discontinuation, Exclusion and Suspension of Candidature” are available at: db.usyd.edu.edu.au/policy/policy-index.stm

6. Re-enrolment after an absence
Students who were previously enrolled (even if you discontinued all units of study during the past year and were given "repeat" status) are eligible to re-enrol in the same degree or diploma course, are required to lodge an Application for Re-enrolment by the specified date in the preceding year at the Student Centre. An Application for Re-enrolment form is available from the Student Centre or Faculty Office. Should the application be approved, the student must complete the enrolment in accordance with the instructions included in the letter of approval to enrol.

Students who have enrolled in the course for the degree of Bachelor of Science (Veterinary) but have not re-enrolled for a period of one year or more, must complete the requirements for the degree under such conditions as the Faculty may determine.

7. Satisfactory progress pursuant to The University of Sydney (Coursework) Rule 2000
A candidature may be terminated at any time by the Dean if, in the opinion of the supervisor and the Associate Dean, Research acting on advice from the Sub-Dean for BSc(Vet), the candidate's work is unsatisfactory.

8. Assessment policy
(1) Assessment and examination for the award of the degree shall be by dissertation, oral examination and presentation of seminars.
(2) The assessment and examination procedures are defined as follows:
(a) Each candidate, in the presence of one or more members of the Postgraduate Education and Research Training Committee, shall give an introductory seminar which outlines the proposed program of study and research.
(b) Each candidate, in the presence of one or more members of the Postgraduate Education and Research Training Committee, shall give an open seminar at the end of the program of study to present the results of the research. An assessment of the seminar would normally be given by the members of the Committee who attend.
(c) A dissertation of appropriate style containing an account of the results and conclusions of the program of study should normally be lodged in the year in which the work for the degree is undertaken by a date in late October or November, nominated by the Sub-Dean for BSc(Vet) and approved by the Associate Dean, Research. Late submission will normally disqualify a candidate from consideration for Honours First Class for the BSc(Vet) degree. The dissertation must be in a form approved by Faculty and must be no longer than 100 A4 pages overall.
(d) The thesis is to include an executive summary of five pages maximum. The summary is to be sufficiently informative to reflect the research planning, procedures and outcomes of the research conducted by the candidate.
(e) The dissertation shall be examined by two examiners, neither of whom should normally be a supervisor of the candidate.
(f) The executive summary shall be examined by the Associate Dean, Research, Sub-Dean BSc(Vet), and other members of the Postgraduate Education and Research Training Committee. Each examiner will make an independent assessment and a combined mark from all examiners will constitute the mark for this written component of the degree.
(g) Each candidate shall be examined on the topic of the dissertation at a viva voce examination conducted by a panel including the Associate Dean Research, Sub-Dean for BSc(Vet), the principal supervisor of the candidate and one member of the Postgraduate Education and Research Training Committee. The panel will examine the candidate on research skills acquired during the degree rather than technical content. The panel will also have access to referees reports from the two thesis examiners. The supervisor will be permitted to clarify technical issues and procedural issues relevant to the work conducted by the candidate. The supervisor will also contribute to the assessment of viva voce examination.
(h) The thesis examiners shall separately write reports giving their assessment of the dissertation including a report no less than one page, detailing strengths and weaknesses of the thesis, and an assessment mark. The examiners make separate recommendations to the Sub-Dean for BSc(Vet).
(i) The dissertation is to represent 50 per cent, the viva voce examination 30 per cent, the mark for executive summary 10 per cent, and the assessment of the final seminar 10 per cent of the total assessment for the award of the degree.
(3) The recommendations of the examiners will normally be considered by the Board of Examiners at the December meeting of the year in which the candidate is enrolled.
(4) If a grade is less than 50 per cent, the degree will not be awarded.
The higher degrees in the Faculty of Veterinary Science are:

- GradCertAnSc - Graduate Certificate in Animal Science
- GradDipAnSc - Graduate Diploma in Animal Science
- GradDipVetClinStud - Graduate Diploma in Veterinary Clinical Studies
- GradDipVetClinSc - Graduate Diploma in Veterinary Science
- MAnSc - Master of Animal Science
- MSVetSc - Master of Science in Veterinary Science
- MVetStud - Master of Veterinary Studies
- MVetClinStud - Master of Veterinary Clinical Studies
- PhD - Doctor of Philosophy
- DVSc - Doctor of Veterinary Science

Vaccination Public Health Management Program

- Graduate Certificate in Veterinary Public Health Management
- Graduate Diploma in Veterinary Public Health Management
- Master of Veterinary Public Health Management

The regulations covering the award of these degrees are printed in the University’s Calendar: Statutes and Regulations. Prospective candidates should consult with the Postgraduate Coordinator most closely concerned before submitting an application for admission to candidature.

The following statements summarise only portions of the by-laws and resolutions of the Senate governing the award of these degrees.

**Graduate Certificate in Animal Science**

Persons holding a bachelor's degree in a related field (animal science, veterinary science, agriculture) or equivalent with permission from the Dean, may apply for admission to candidature in the Graduate Certificate in Animal Science. Equivalence may comprise, for example, a Bachelor of Science with relevant work experience. A candidate for this award shall satisfactorily complete units of study granting a minimum of 24 credit points by coursework, including core and elective units of study, which may include a supervised research project.

The candidate will develop:

- Knowledge and skills in animal production in a practical context
- The ability to apply advanced skills to a specific problem in a selected area of specialisation (genetics, nutrition or reproduction)

A candidate who elects to complete a research project (6-24 credit points) will also develop:

- Ability to search, identify, evaluate, collate and present scientific knowledge in written and oral form in English
- Skills to manage the planning and implementation of a successful research project
- Ability to write a literature review

A candidate who elects to complete a 12-24 credit point research project will also develop:

- Ability to conduct research in a highly professional and ethical manner
- Ability to design, conduct and write-up a research project

**Graduate Diploma in Veterinary Clinical Studies**

The Diploma course will provide formal theoretical and practical instruction in veterinary medicine, veterinary surgery and veterinary public health concerned with companion and farm animals and veterinary aspects of animal production. The Diploma course may also include, according to individual needs, instruction in scientific methods and supervised study in supporting disciplines in veterinary anatomy, veterinary physiology, veterinary pathology, infectious diseases, pharmacology and toxicology, animal husbandry, nutrition, applied reproduction and genetics.

The prescribed practical experience will include up to 800 hours of clinical rotation in the Veterinary Teaching Hospital and the Rural Veterinary Centre. Additional practical training of up to 14 weeks will also be required including private veterinary practices, NSW Agriculture, Commonwealth Department of Primary Industry and Energy and relevant industries selected according to the needs of the individual.

Entry requires candidates to:

- be eligible to practise as a veterinarian in a country other than Australia, and
- have submitted evidence of general and professional qualifications and experience to satisfy the Faculty of Veterinary Science that the applicant possesses the educational preparation and capacity to pursue studies for the diploma, has the appropriate time available and meets any additional requirements for admission that may be prescribed by the Faculty of Veterinary Science.
Offered in conjunction with, and administered by, the Faculty of Science, phone +61 2 9351 5397
Entry requires a Bachelor's degree in science or veterinary science. All prospective students must contact the program chairs - Dr Chris Dickman, +61 2 9351 2318 and Associate Professor Tony English, +61 2 9351 1675 -directly for detailed instructions concerning applications and advice about eligibility.

Graduate Diploma in Applied Science - Wildlife Health and Population Management
Offered in conjunction with, and administered by, the Faculty of Science, phone +61 2 9351 5397
Entry requires a Bachelor's degree in science or veterinary science. All prospective students must contact the program chairs (see above) directly for detailed instructions concerning applications and advice about eligibility.

Offered in conjunction with, and administered by, the Faculty of Science, phone +61 2 9351 5397
Entry requires a Graduate Certificate in Applied Science (Wildlife Health and Population Management) or a bachelor's degree in science or vet science. All prospective students must contact the program chairs (see above) directly for detailed instructions concerning.

Master of Animal Science
Persons holding a bachelor's degree in a related field (animal science, veterinary science, agriculture) or equivalent with permission from the Dean, may apply for admission to candidature in the Graduate Master of Animal Science. Equivalence may comprise, for example, a Bachelor of Science with relevant work experience. A candidate for this award shall satisfactorily complete units of study granting a minimum of 48 credit points by coursework, including core and elective units of study, and a supervised research project.

The candidate will develop:
• Knowledge and skills in animal production in a practical context
• The ability to apply advanced skills to a specific problem in a selected area of specialisation (genetics, nutrition or reproduction)
• Ability to search, identify, evaluate, collate and present scientific knowledge in written and oral form in English
• Skills to manage the planning and implementation of a successful research project
• Ability to conduct research in a highly professional and ethical manner
• Ability to design, conduct and write-up a research project

Master of Science in Veterinary Science
Persons holding a bachelor's degree with honours first or second class may apply for admission to candidature for the degree of Master of Science in Veterinary Science. Applicants holding the degree of Bachelor of The University of Sydney without honours but who have completed work equivalent to a degree of bachelor with honours or who have passed a preliminary examination or examinations as prescribed by the Faculty may be accepted as candidates.

A candidate for this degree shall complete such units of study as are prescribed by the head of the department concerned and carry out research under the guidance of a supervisor for not less than one year. A thesis must be submitted, embodying the results of this research.

Master of Veterinary Science
Persons holding the degree of Bachelor of Veterinary Science may apply for admission to candidature for the degree of Master of Veterinary Science. Graduates in veterinary science from other universities may also, with the approval of the Faculty and the Academic Board, be admitted as candidates.

A candidate for this degree shall pursue a course of advanced study and research under the guidance of an adviser or supervisor for not less than one year and submit a thesis embodying the results of his or her investigation.

Master of Veterinary Studies
Persons holding the degree of Bachelor of Veterinary Science may apply for admission to candidature for the degree of Master of Veterinary Studies in the following areas: Veterinary Pathology, Veterinary Anaesthesia, Avian Health and Production, Wildlife Medicine and Husbandry. Graduates in veterinary science from other universities may also, with the approval of the Faculty and the Academic Board, be admitted as candidates.

Except for candidature in the subject area of Avian Health and Production, an applicant shall have qualifications registrable by the Board of Veterinary Surgeons of New South Wales. An applicant for admission to candidature in the subject area of Wildlife Medicine and Production shall produce evidence of having worked for a period of not less than eight weeks in an institution which is concerned with the maintenance and care of wildlife and has been approved by the Faculty. A candidate shall, for a period of not less than two years as a part-time student, follow such units of study and pass such examinations as the Faculty, on the recommendation of the Associate Dean, Students, may prescribe.

(Please note: not all areas are offered each year. Email pg@vetsci.usyd.edu.au for more information)

Master of Veterinary Clinical Studies
Persons holding the degree of Bachelor of Veterinary Science may apply for admission to candidature for the degree of Master of Veterinary Clinical Studies. Graduates in veterinary science from other universities may also, with the approval of the Faculty and the Academic Board, be admitted as candidates. Candidates shall be registrable by the Board of Veterinary Surgeons of New South Wales, unless exempted by the Faculty.

A candidate for this degree shall, for at least two years, engage in full-time supervised advanced veterinary clinical study and research and submit a thesis embodying the results of an original investigation.

Doctor of Philosophy
Graduates who hold the degree of Master of Veterinary Science, Master of Veterinary Clinical Studies, Master of Science in Veterinary Science or Bachelor of Veterinary Science with Honours may apply for admission as candidates for the degree of Doctor of Philosophy in the Faculty of Veterinary Science.

Applicants not having an honours degree may be accepted as candidates after passing a qualifying examination. Graduates of other universities may also be admitted as candidates provided that their qualifications satisfy the Academic Board of The University of Sydney.

The degree may be taken on either a full-time or part-time basis. In the case of full-time candidates, the minimum period of candidature is two years for candidates holding a master's degree or equivalent, or three years in the case of those holding a bachelor's degree with first class or second class honours. The maximum period of candidature is normally five years. Part-time candidature may be approved for applicants who can demonstrate that they are engaged in an occupation or other activity which leaves them substantially free to pursue their candidature for the degree. Normally the minimum period of candidature will be determined on the recommendation of the Faculty but in any case will not be less than three years; the maximum period of candidature is normally seven years.

Doctor of Veterinary Science
The degree of Doctor of Veterinary Science is not conferred until the candidate is a graduate of eight years' standing from the degree that qualified him or her for candidature. The degree is awarded for published work that is recognised by scholars as a distinguished contribution to knowledge.
Veterinary Public Health Management Program

Graduate Certificate in Veterinary Public Health Management

Persons holding a bachelor's degree in veterinary science, animal science or equivalent, or persons with a minimum of 4 years work experience in a relevant discipline may apply for admission to candidature for the Graduate Certificate in Veterinary Public Health Management.

A candidate for this award shall satisfactorily complete units of study granting a minimum of 24 credit points by a combination of online distance units and 2 short (3-5 day) residential sessions.

The candidate will develop:

- Knowledge and skills in veterinary public health particularly veterinary epidemiology, data analysis, zoonoses, disease.
- Skills in leadership and project management relevant in the modern work environments of animal health professionals.

Graduate Diploma in Veterinary Public Health Management

Persons holding a bachelor's degree in veterinary science, animal science or equivalent, or persons with a Graduate Certificate in Management in Veterinary Public Health may apply for admission to candidature for the degree of Graduate Diploma in Veterinary Public Health Management.

A candidate for this degree shall satisfactorily complete units of study granting a minimum of 48 credit points by a combination of online distance units and 2 short (3-5 day) residential sessions.

The candidate will develop:

- Knowledge and skills in veterinary public health particularly veterinary epidemiology, data analysis, zoonoses, disease, animal health economics and animal health policy development.
- Particular expertise in one or more relevant fields of veterinary public health according to the electives chosen by the candidate.
- Enhanced skills in leadership and project management relevant in the modern work environments of animal health professionals.

Master of Veterinary Public Health Management

Persons holding a Bachelor's degree in veterinary science, animal science or equivalent, or persons with a Graduate Certificate in Management in Veterinary Public Health or a Graduate Diploma in Management in Veterinary Public Health may apply for admission to candidature for the degree of Master of Veterinary Public Health Management.

A candidate for this degree shall complete satisfactorily units of study granting a minimum of 48 credit points by a combination of online distance units and 2 short (3-5 day) residential sessions and a dissertation worth 6 or 12 credit points. The dissertation is the written output of a supervised research project conducted by the candidate. This project can relate closely to the work activities of the candidate.

Candidates must obtain a WAM of 70 or more on their first 24 credit points of candidature to progress to the research project. Candidates who achieve less than a WAM of 70 must transfer their candidature to the GradDipVPHMgt or GradCertVPHMgt.

The candidate will develop:

- Knowledge and skills in veterinary public health particularly veterinary epidemiology, data analysis, zoonoses, disease control, animal health economics and animal health policy development.
- Particular expertise in one or more relevant fields of veterinary public health according to the electives chosen by the candidate.
- Applied skills in leadership and project management relevant in the modern work environments of animal health professionals.
- Skills in research methods via a research project, which addresses both the technical research and management issues involved.

Postgraduate scholarships

Faculty scholarships

These awards are similar to APAs but are funded by the Faculty.

NB: Applicants for APAs are automatically considered for all available Faculty scholarships.

The table of scholarships listed below is a summary only. For further information contact the Scholarships Office or view their website (http://www.usyd.edu.au/su/reschols/).

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Value $</th>
<th>Closing date</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>First year student enrolled in the Veterinary Public Health Management Program.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For research at Sydney Veterinary Teaching Hospital and Clinic in diseases of domestic animals</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduates of any university for research in veterinary science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postgraduate study and research. (Value as recommended by the Associate Dean, Research.)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Postgraduate study and research</td>
<td></td>
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<tr>
<td>Postgraduate study and research</td>
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<tr>
<td>First year student enrolled in the Veterinary Public Health Management Program.</td>
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<tr>
<td>First year student enrolled in the Veterinary Public Health Management Program.</td>
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</tbody>
</table>

Open to citizens and permanent residents of Australia for higher degree by research.
6. Postgraduate Information

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Amount</th>
<th>Application Date</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Sydney Postgraduate Award (UPA)</td>
<td>equiv. to APA</td>
<td>October</td>
<td>Similar to APA</td>
</tr>
<tr>
<td>(b) Traveling scholarships (application through Research Office [<a href="http://www.usyd.edu.au/reschols/">http://www.usyd.edu.au/reschols/</a>])</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harriett Beard Scholarship</td>
<td>up to 15 500</td>
<td>March</td>
<td>Postgraduate study and research in physical sciences - engineering, veterinary science and dentistry</td>
</tr>
<tr>
<td>Boulton Postgraduate Scholarship</td>
<td>up to 15 500</td>
<td>March</td>
<td>Postgraduate study or research for graduates educated within the Australian public educational system</td>
</tr>
<tr>
<td>CG Heydon Travelling Fellowship</td>
<td>up to 15 500</td>
<td>March</td>
<td>Postgraduate study or research in biological sciences at overseas institutions</td>
</tr>
<tr>
<td>William and Catherine McLlrath Scholarship</td>
<td>25 000</td>
<td>March</td>
<td>Postgraduate study or Scholarship research overseas</td>
</tr>
<tr>
<td>JB Watt Traveling Scholarship</td>
<td>up to 15 500</td>
<td>March</td>
<td>Postgraduate study or research overseas</td>
</tr>
<tr>
<td>Eleanor Sophia Wood Postgraduate Scholarship</td>
<td>up to 15 500</td>
<td>March</td>
<td>Postgraduate study or research overseas</td>
</tr>
<tr>
<td>(c) Grants-in-aid restricted to Veterinary Science postgraduates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sir Ian Clunies Ross Scholarship</td>
<td>up to 500</td>
<td>As advertised</td>
<td>Postgraduate candidature related to research in the wool industry</td>
</tr>
<tr>
<td>NPH Graham Scholarship</td>
<td>up to 500</td>
<td>As advertised</td>
<td>Postgraduate candidature related to research in sheep medicine</td>
</tr>
<tr>
<td>Goldia and Susie Lesue Scholarship</td>
<td>up to 3000</td>
<td>As advertised</td>
<td>Postgraduate candidature in the area of Veterinary Clinical Sciences</td>
</tr>
<tr>
<td>Neil and Allie Lesue Scholarship</td>
<td>up to 3000</td>
<td>As advertised</td>
<td>Postgraduate candidature in the area of Veterinary Clinical Sciences</td>
</tr>
<tr>
<td>Eric Horatio Maclean Scholarships</td>
<td>up to 1000</td>
<td>As advertised</td>
<td>Postgraduate candidature</td>
</tr>
<tr>
<td>Stock and Meat Industries Grant-in-Aid</td>
<td>up to 750</td>
<td>As advertised</td>
<td>Postgraduate candidature in research related to the Stock and Meat Industries</td>
</tr>
<tr>
<td>(d) Other grants-in-aid open to Veterinary Science postgraduates (application through Research Office [<a href="http://www.usyd.edu.au/reschols/">http://www.usyd.edu.au/reschols/</a>])</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Royston George Booker Scholarships</td>
<td>up to 1500</td>
<td>April</td>
<td>Postgraduate study or research overseas</td>
</tr>
<tr>
<td>Herbert Johnson Travel Grants</td>
<td>up to 1500</td>
<td>April</td>
<td>Postgraduate study or research overseas</td>
</tr>
<tr>
<td>James Kentley Memorial Scholarship</td>
<td>up to 1500</td>
<td>April</td>
<td>Postgraduate study or research overseas</td>
</tr>
<tr>
<td>James King of Irrawang Travelling Scholarship</td>
<td>up to 1500</td>
<td>April</td>
<td>Postgraduate study or research overseas</td>
</tr>
<tr>
<td>GHS and IR Lightoller Scholarship</td>
<td>up to 1000</td>
<td>April</td>
<td>Postgraduate study or research overseas</td>
</tr>
</tbody>
</table>
7. Other Faculty information

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit http://www.usyd.edu.au/handbooks/.

Important Faculty Information

Animal Welfare Policy of the Faculty of Veterinary Science
The care and well-being of animals will be paramount in the teaching, research, consultation and clinical activities of the Faculty. The education of veterinary students will be focussed on animals and their welfare recognising the diversity of animal use. The goal of the Faculty is to develop veterinary professionals who will be scientific advocates for the welfare of animals in all contexts.

The Faculty is committed to promoting the principles of reduction in, refinement of, and replacement of the use of animals in teaching and research activities and will endeavour to provide leadership in these areas. It will promote research that will advance animal welfare.

The Faculty will uphold the codes of practice and legislation governing the use of animals. It will adopt best practice to ensure animal well-being.

The Faculty has a Policy on Conscientious Objection to the Use of Animals in Teaching and Assessment. This can be viewed on the Faculty website.

Attendance at Lectures
Attendance at lectures and such other classes as are prescribed for individual courses is compulsory. If for good reason you are unable to attend classes you should apply for Leave of Absence or Special Consideration.

Students are required to attend 90 percent of lectures and 100 percent of practical classes. Failure to meet these requirements without excuse may result in unit of study failure.

Appeals against grades
Students who wish to appeal against a mark or grade in a unit of study should complete Examination Grades Appeal Form, available at the Faculty Office.

Faculty policy on plagiarism
Plagiarism can be broadly defined as knowingly presenting another person’s ideas, findings or written work as one’s own by copying or reproducing them without due acknowledgment of the source. Plagiarism may involve copying the work of another student, or it may involve paraphrasing or copying a published author's text or argument without giving a reference. At its worst, plagiarism is theft.

If plagiarism is detected during assessments of submitted material, the student or group of students will fail the relevant assessment task. Plagiarism may result in failure of the unit of study or no award of the degree. All such decisions are subject to review by the Dean.

All students are required to submit a signed statement of compliance with all Work submitted to the University for assessment, presentation or publication. A statement of compliance must be in the form of:

- a University assignment cover sheet;
- a University electronic form; or
- a University written statement;

certifying that no part of the Work constitutes a breach of this Policy. Please read the University policy which may be viewed on the University website at www.usyd.edu.au/senate/policies/Plagiarism.pdf.

Progression after a failed unit of study
Under normal circumstances students will satisfy the degree requirements for the BVSc in five years. Students who fail a unit of study are required to repeat the unit. Students repeating units of study, may, with permission of the Faculty, enrol in one or more units of study in the following year of the course when:

(i) the timetable arrangements are such that students are able to meet the attendance requirements of the Faculty

(ii) all prerequisites for enrolment in the unit of study have been satisfied.

Year 4: A candidate for the degree may enrol in the units of study prescribed for the fourth year of candidature only after completion of Years 1-3.

Year 5: A candidate for the degree may enrol in the units of study prescribed for the final year of candidature only after completion of Years 1-4 and having demonstrated proficiency in the safe handling of animals, in such a manner as may from time to time be prescribed by the Faculty.

Please note that the BVSc is a highly structured program with limited opportunity to undertake units of study from adjacent years without significant timetable clashes. As a result of these limitations, students who fail a unit of study may not be able to enroll in enough credit points to qualify for full-time study. This will have implications for International students in relation to visa compliance and Local students who are scholarship holders or those who receive financial support from Centrelink.

Faculty Office
The Office of the Faculty of Veterinary Science is in the JD Stewart Building, in Room 218. All enquiries in relation to matters specific to the Faculty should be made at this office in the first instance, including:

- enrolments in the Faculty,
- special information about admission to the Faculty,
- applications for credit for previous studies,
- facilities available in the Faculty, and
- other Faculty matters.

Timetables
Copies of the Faculty lecture timetables and location of theatres are available from the office prior to the commencement of each academic year. Copies are also displayed on the Faculty noticeboard.

Mail collection
There are pigeon-hole facilities for mail collection in the JD Stewart Building, and you are advised to check them regularly for any messages.

Lockers and change room facilities
Lockers may be hired. Change room facilities including hot showers are also available.

Photocopying
There is a coin-operated photocopying machine for student and staff use in the JD Stewart Building.

Faculty staff
Members of the teaching staff may be consulted throughout the year about any problems regarding the course.

General information and advice

Orientation Week
In Orientation week, newly-enrolled first year students are introduced to the Faculty. There is a short ceremony in which the Dean, Sub-Dean Students, and the President of the Veterinary Student Associ-
Examinations

Timetables for examinations
Draft timetables are displayed on the University Intranet (http://intranet.usyd.edu.au) approximately three to four weeks before the commencement of examinations. Limited copies of the timetable will also be available in a hard copy format at the Student Centre. Enquiries about these may be made at the Student Centre.

Printed copies of the final timetables are available from the Student Centre and at the University farms.

Study vacation
A break after lectures at the end of each semester is set aside for examination study and preparation. The 2006 Semester 1 study break will extend between Monday, 12 June and Friday, 16 June.

The Semester 2 break will begin on Monday, 30 October and continue through to Friday, 3 November, 2006.

Notification of examination results
The results of annual examinations are available through the University Intranet by accessing the MyUni (http://intranet.usyd.edu.au) system. Results are also posted through the mail service directly to you at the end of each semester. Results will no longer be posted on the notice boards outside the Student Centre.

Disclosure of examination marks
Final marks will appear on your annual result notice. Marks may also be obtained from your faculty for the minor components of assessment which make up the final marks. You are entitled to information about any details of the assessment procedures used to determine the final result.

Your examination scripts and any other assessment material may be retrieved within a reasonable time after the completion of assessment in each unit of study. This does which involve the repeated use of the same material in successive examinations.

The NSW Freedom of Information Act ensures that students may, upon request, obtain a copy of their examination scripts or any other written answers to examinations questions. This is provided that a) the request is made within six months of the release of the results of the examinations and b) the examination involved was not a confidential examination paper.

If you miss an examination
You are not automatically entitled to any special consideration should you miss an examination. However, should that occur you should report immediately to the Examinations Office (at the Student Centre, Carslaw Building) to see if any arrangements can be made.

The need to seek early advice
Many students in need of advice fail to make full use of the assistance available to them. If you believe that your performance during a unit of study, or your preparation for your examinations, has been adversely affected by medical, psychological or family circumstances, you should seek advice as early as possible. Members of the teaching staff, of the University Counseling Service, and of the University Health Service, are available for consultation and can give advice on appropriate action to take.

Special enrolment information
These are the special requirements for Veterinary Science students only:

First year science courses
Students in first year will be allotted to particular chemistry practical classes. The lists indicating these class sections will be displayed outside the relevant laboratories before the beginning of the semester.

Students re-enrolling after absence
If you were previously enrolled (even if you discontinued all units of study during the past year and were given “repeat” status) and are eligible to re-enrol in the same degree or diploma course, you are required to lodge an Application for Re-enrolment by the specified date in the preceding year at the Student Centre. An Application for Re-enrolment form is available from the Student Centre or Faculty Office. Should your application be approved, you must complete your enrolment in accordance with the instructions included in the letter of approval to enrol.

If you have been enrolled in the course for the degree of Bachelor of Veterinary Science but have not re-enrolled for a period of one year or more, you must complete the requirements for the degree under such conditions as the Faculty may determine.

Applicants with exclusion records
If you have already attended a tertiary institution and have been excluded, or are liable for exclusion, from a faculty or course, you should give a detailed statement of the reasons for your failure and why you consider you now have a chance of succeeding in the course of your choice. If your statement is based on medical grounds it must be supported by medical reports.

In addition to your UAC application, you must attach your statement to a Special Consideration for Admission form obtainable from the Student Centre, University of Sydney and return it no later than 31 October 2005 to the Admissions Office, University of Sydney, NSW 2006.

International students
Full fee paying overseas students can be admitted to the undergraduate course but must have achieved a similar standard to that expected of an Australian student seeking entry.

If you are an overseas student sitting an Australian Year 12 examination you should apply through UAC (see below). All other overseas applicants should apply to:

The International Office G12
The University of Sydney
NSW 2006 Australia
Phone: +61 2 93514079 Fax: +61 2 93514013
Email: info@io.usyd.edu.au

The International Office was established to help all international students with application and enrolment procedures and any other problems they encounter. The International Student Services unit on the main campus can help with any problems arising during an international student's stay.

7. Other Faculty information

Academic dress
Members of the University appear in their academic dress on public occasions convened for academic purposes.

Details on the ceremonial robes for all degrees of the University are given in a leaflet on academic dress available from the Student Centre. The particular requirements for the BVSc and BSc(Vet) degrees are as follows:

Bachelor of Veterinary Science - a gown similar to that worn by graduates holding the degree of Bachelor of Arts in the University of Oxford or of Cambridge, hood of black silk edged with amber and purple silk, black cloth trencher cap.

Bachelor of Science (Veterinary) - a gown similar to that worn by graduates holding the degree of Bachelor of Arts in the University of Oxford or of Cambridge, hood of black silk edged with purple and gold silk, black cloth trencher cap.

Bachelor of Animal and Veterinary Bioscience - a gown similar to that worn by graduates holding the degree of Bachelor of Arts in the University of Oxford or of Cambridge, hood of black silk edged with purple and green silk, black cloth trencher cap.
Learning Assistance Centre

The Learning Assistance Centre offers help to all students of the University who wish to develop their learning skills and their use of the English language to carry out their university studies.

Noticeboards

The main Faculty noticeboards are in the ground-floor corridor of the JD Stewart Building.

Current information about timetable changes, course announcements, tutorials, practical work, term tests, essays and recommended books is posted on faculty, college and departmental noticeboards. These noticeboards should be consulted regularly.

Publications

The University of Sydney Diary, the Map Guide, Faculty handbooks and other publications are available from the Student Centre.

Other sources

You may require advice of a different kind and in this case your first enquiries are often best made at the Student Centre.

Financial assistance

The University has a number of loan and bursary funds to assist students who experience financial difficulties. This assistance is not intended to provide ongoing income support but to help in emergencies and to supplement other income.


Financial Assistance Office Level 7, Education Bldg. A35
Phone:+61 2 9351 2416
Fax:+61 2 9351 7055
Email: fao@stuserv.usyd.edu.au

The Financial Assistance Office is located on Level 7 of the Education Building A35. Our hours of business are Monday to Thursday, 10 am to 4 pm.

Accommodation

If you are planning to reside at the University in the event of an offer of enrolment being made, you should contact the College(s) of your choice early - i.e., before offers are made.

Colleges

St Andrew's College (men and postgraduate women), Carillon Ave, Newtown 2042 (non-denominational)
Phone +61 2 9565 7300

St John's College (men and women), Missenden Rd, Camperdown 2050 (Catholic)
Phone +61 2 9394 5200

St Paul's College (men), City Rd, Newtown 2042 (Anglican)
Phone+61 2 9550 4727

St Michael's College (men), 150 City Rd, Darlington 2008 (Catholic)
Phone +612 9692 0382 (principally for postgraduate students)

Sydney University Village
90 Carillon Avenue, Newtown 2042
Phone+61 2 9036 4000

Foundations

Postgraduate Foundation in Veterinary Science
The purpose of the Foundation is to provide a comprehensive program of continuing veterinary education. The office is located on Level 2 of the Veterinary Science Centre. The Foundation is funded through its activities and also accepts donations from the profession and the wider community in support of its activities. A full-time Director coordinates a program of continuing veterinary education which includes refresher courses, distance education, symposia, workshops, publications, commissioned reviews and time-out seminars for veterinarians who have been away from clinical practice. The affairs of the Foundation are controlled by a Council elected by the members of the Foundation and appointed by the Senate of the University.
Web: www.pgf.edu.au (http://www.pgf.edu.au)

Poultry and Dairy Research Foundations
The purpose of both Foundations is to provide an interface between the relevant industries in Australia and The University of Sydney. As such they undertake research relevant to these industries, assist in the training of scientific and technical personnel to service the private and public sectors of the industries and act in an industrial liaison capacity. Both Foundations are actively involved in the dissemination of technical information to the industries through the organisation of annual scientific symposia.

Veterinary Science Foundation
This Foundation was established in 1986 and has a proud record of achievement in raising funds for the Faculty of Veterinary Science. During the past 10 years it has raised nearly $10 million which has funded the purchase of the McMaster Laboratory and the construction of the 250 seat Veterinary Science Conference Centre, which also houses The University of Sydney Post Graduate Foundation in Veterinary Science.

The VSF has as its mission the promotion and support of the vital role of animals in Australian life through an ongoing, creative partnership with the Faculty of Veterinary Science. It aims to increase the public recognition of the importance of farm and companion animals, as well as our native fauna, and the essential role played by veterinarians in all aspects of animal care.

The affairs of the Foundation are conducted by a Council which is chaired by the President. Further information about the Foundation...
can be obtained from the Veterinary Science Foundation Office on (02) 9351 18026.

Facilities

The University of Sydney (Camden)
In 1954 the Australian Dairy Produce Board, the Australian Meat Board and the interdepartmental Committee on Wool Research gave The University of Sydney two farms, totaling 324 hectares, for the use of the Faculty of Veterinary Science. Since then, through additional bequests and by acquisition, the University now owns 1400 hectares of land in the Camden district. This, together with other property in the Moree and Marulan districts, comprises the University farms. All the farms are the responsibility of the Director of Properties and Investments.

The Camden farms are grouped into three centres, all of which are about 65km from the main Sydney site and within easy access of the academic centre at Werombi Road. The farms are at Badgery's Creek, Bringelly and Cobbitty.

Academic developments at Camden
Most development is at the Corstorphine Centre. Land from the original gift of the industries boards has been set aside for use by the Faculty of Veterinary Science and the department of Agronomy of the Faculty of Agriculture. The Faculty of Veterinary Science is based in the JL Shute Building on Werombi Road. There are several major teaching and research units on nearby areas of the Corstorphine Centre. The Faculty has developed laboratories and other facilities for research in dairy cattle, poultry, sheep and meat. The University Veterinary Centre, Camden, is a major component of the Faculty of Veterinary Sciences. It is a mixed veterinary practice, providing services to the district. The Faculty has also established and maintains separate pig and deer units. The Equine Performance Laboratory is also based at Camden.

In 1981 the University acquired a farm at Cobbitty. Here the Faculty of Veterinary Science has a horse breeding unit, and the animal reproduction unit is also located at the same site.

Postgraduate training is a strong feature of the work of academic departments at Camden. Graduate students from Australia and overseas are engaged in research projects mostly concerned with primary industry disease and production problems. Some of their work entails the use of livestock on the University farms.

The University farms as a whole carry more than 400 milking cows and, with beef cattle and replacement stock, a total of more than 1200 cattle. A new dairy is being constructed at Corstorphine in the near future. The farms also carry about 2000 sheep, 30 horses, 30 deer, 2000 hens, 20 goats and 60 pigs. Almost all this stock is used in one way or another for teaching or research purposes, but in addition it produces a commercial income that defrays the basic costs associated with holding the farms and provides some funds for farm development, research and teaching.

The University farms at Camden are under the control of a director, who is responsible to the Vice-Chancellor. A Farms Advisory Committee advises the Vice-Chancellor on the role of the farms in teaching and research in the Faculties of Agriculture and Veterinary Science.

The Corstorphine Centre provides a base for a student accommodation unit, Nepean Hall. This gives students easy access to lectures and practical classes conducted at Camden. Corstorphine is also the site of Faculty of Veterinary Sciences and Agronomy, which occupy the University Veterinary Centre, Camden, the Shute Building, the Breakwell Building, the Poultry Research Centre, the MC Franklin Research Centre and the Dairy Research unit. Further large animal research and teaching facilities are provided on May Farm, which is only 3 kilometres south of Corstorphine.

The Bringelly Farms Centre, 10 kilometres north of Corstorphine, provides extensive sheep, beef and dairy cattle facilities for the Faculty of Veterinary Sciences. Its irrigation resources are being further developed and it is becoming increasingly important as a research-teaching resource for other University departments.

As well as providing basic land, water and animal resources for a wide range of teaching and research areas, the farms serve the plant and animal industries by frequently acting as commercial testing sites for new plants, new fertilisers, new vaccines and antibiotics and new whole-farm management systems.

The University Veterinary Centre, Camden in addition to offering a veterinary service for the district, provides clinical training for senior students.

Student usage of the farms takes two forms. In the first year, students take day excursions to the farms where they receive lectures and are given practice in animal handling and management and the fourth year students will spend the second semester at Camden.

In 1979 an additional livestock holding north of Marulan known as Arthurleigh came to the University as part of the Eric Holt bequest. It now consists of about 7900 hectares and is being developed as a large-scale sheep-beef property.

Corstorphine
Corstorphine is also used for teaching and research in veterinary conservation biology. To reach Corstorphine from Sydney, take Camden Valley Way (not the freeway) to the Cobbitty turn-off, which is to the right, 20 kilometres from the Liverpool Post Office. Follow the road through Cobbitty to the Nepean River, cross the bridge, turn left and travel another 800 metres. The phone numbers are:

- The University of Sydney, Faculty of Veterinary Science (Camden): (02) 9351 1611
- University Veterinary Centre Camden: +61 2 9351 1777

Appeals
Any person affected by a decision given under Rule 2 may appeal to the Council or the Vice-Chancellor in respect of any decision given by the Warden or any other person authorised with the maintenance of discipline and to the Senate where the decision is given by the Council or the Vice-Chancellor.

Addresses
The University of Sydney
Faculty of Veterinary Science (Camden)
425 Werombi Road (Private Mail Bag 3) Camden 2570
Phone+61 2 9351 1611
Fax+61 2 9351 1618.

University Veterinary Centre (Camden)
410 Werombi Road, Camden 2570
Phone+61 2 9351 1777
Fax+61 2 4655 1212

Nepean Hall,
345 Werombi Road, Camden 2570
Phone+61 2 9351 1662
Fax+61 2 4655 1111.

Cobitty Centre
65 Cobbitty Road, Cobbitty 2570
Phone+61 2 4651 2568
Fax+61 2 4651 2328

Lansdowne Farm
74 Cobbitty Road, Camden 2570
Phone+61 2 4651 2328

Plant Breeding Institute
107 Cobbitty Road, Cobbitty 2570
The Sydney University Veterinary Society, which was formed in 1919, seeks to foster good fellowship among graduates and undergraduates in the Faculty of Veterinary Science and to assist the development in its undergraduate element of a broad and comprehensive approach to matters of professional and public interest. The society conducts an annual ball, trivia night and many beginning and end of semester social gatherings, as well as providing surgical equipment and its own t-shirts, jumpers, baseball caps and much more. The journal of the society, Centaur, is published annually (see below).

Sydney University Veterinary Postgraduate Society
The Sydney University Veterinary Postgraduate Society is an association made up of all students enrolled in a postgraduate degree course within the Faculty of Veterinary Science. The postgraduates come from a wide range of undergraduate courses, including Veterinary Science, Agriculture, Science, Medical and even Engineering disciplines. The SUVPS aims to foster a postgraduate community, and to encourage academic and social interaction between postgraduates and staff members from different areas within the Faculty. The Society carries out these goals by organising speakers and social gatherings throughout the year, as well as providing peer support for its members.

Publications
Centaur is an annual, illustrated journal of contributions from students edited by a student elected to the task. It covers the highlights of the year and is eagerly awaited by both students and faculty. Costs of producing the latest edition were met by advertisers. Contributions are actively sought throughout the year.

History of the Faculty
Veterinary education in New South Wales began in the 1880s when the Sydney Technical College established the two-year course of instruction, Elementary Veterinary Science. In 1909 the University of Sydney, with the support of the New South Wales Government, established a veterinary school and appointed James Douglas Stewart, MRCVS, the Director and Professor. The School officially opened in 1910 when 16 students enrolled in the first year of a five-year course leading to the degree of Bachelor of Veterinary Science. Initially the students were accommodated in the basement of the then Fisher Library in the southwest corner of the Quadrangle, but towards the end of 1913 they were moved completely into the present main building (JD Stewart Building).

The First World War delayed the development of the School with many graduates and undergraduates volunteering for active service. Even after the war, recovery of the School was slow and it took the full resources of Professor JD Stewart to justify the continuing existence of the Veterinary School. Gradually the numbers of enrolled students increased, while the graduates of the School enhanced its reputation. By 1928 there were 25 undergraduates, which increased to over 100 in 1935. In 1930 the Veterinary School of the University of Melbourne ceased its undergraduate training and the Sydney School became solely responsible for veterinary training in Australia until the Queensland Veterinary School opened in 1936 and the Melbourne Veterinary School reopened in the 1960s.

In 1936 the University, in association with the McFarvie Smith Institute, purchased and developed a 160 hectare property at Badger's Creek, to be used for the training of veterinary students in animal husbandry. The purchase coincided with the reintroduction, in 1937, of a five-year course of studies and training for the BVSc degree (the course had been reduced to four years in 1914). In 1939 Professor Stewart retired. From the opening of the School he had been the Director, which he remained until 1920 when the Veterinary School was given full status as a faculty and he became Dean of Veterinary Science. It was his energy that had brought about the regulation of the practice of veterinary science in New South Wales with the passing of the Veterinary Surgeons Act in 1923. It was his drive that led to the growth of the Faculty until the Second World War.

With the temporary closure of the Queensland Veterinary School during the Second World War, Sydney once again became solely responsible for veterinary education in Australia. In 1939 extensions to the main buildings were added and in 1946 the temporary building for the Department of Veterinary Pathology and Bacteriology was constructed. In 1949 some temporary buildings were erected to provide further accommodation for the Veterinary Teaching Hospital. In 1954 additional farm facilities were acquired at Camden. The Camden farms provide final year students with animal units for the teaching of husbandry and disease control, and with a veterinary clinic and hospital, lecture theatres and teaching laboratories, and a hall of residence (Nepean Hall).
Although the development of the Veterinary School is far from complete, extensive hospital and clinic buildings (Evelyn Williams Building), an Animal Science building (RMC Gunn Building) and the Veterinary Science Conference Centre (opened 1998) have been erected at the Sydney campus.

In 1997 the Departments of Veterinary Anatomy and Veterinary Pathology amalgamated to form the Department of Veterinary Anatomy and Pathology. In the same year Pathology staff and equipment were relocated into the adjacent building, previously known as the (CSIRO) McMaster Building, enabling the 1946 temporary building (mentioned above) to be demolished.

Also in 1997 the Department of Animal Health amalgamated with the Department of Veterinary Clinical Sciences and the combined department is known as the Department of Veterinary Clinical Sciences.

In 1998 the names of the Faculty’s two veterinary hospitals were changed. The Veterinary Teaching Hospital on the Sydney campus was named The University Veterinary Centre, Sydney, and the Rural Veterinary Centre at Camden was named The University Veterinary Centre, Camden.

In 2005, the Faculty offered a new undergraduate degree, the Bachelor of Animal and Veterinary Bioscience. This 4-year degree involves studies in the structure and function of animals, their management and welfare in an agricultural, para-veterinary, laboratory or wildlife context. Apart from the growth in undergraduate teaching, there are a number of postgraduate diplomas as well as courses leading to the degrees of Master of Animal Science, Master of Science in Veterinary Science, Master of Veterinary Science, Master of Veterinary Studies, Master of Veterinary Clinical Studies and Doctor of Philosophy available to graduates.

Future progress is assured.

### Undergraduate scholarships and prizes

The table below is a summary only. For further information contact the Faculty Office on +61 2 9351 2441.

<table>
<thead>
<tr>
<th>Scholarships/Prize</th>
<th>Value $</th>
<th>Criteria for Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albert Victor Steers Harris Bequest</td>
<td>1,000.00 x 2</td>
<td>Awarded to the top graduating male and female students in the BVSc receiving the highest marks.</td>
</tr>
<tr>
<td>Australian College of Veterinary Scientists, Surgical Chapter Prize for Veterinary Surgery</td>
<td>Text Book</td>
<td>Awarded for proficiency in Veterinary Surgery in 3rd Year.</td>
</tr>
<tr>
<td>Australian Equine Veterinary Association Prize in Horse Medicine and Surgery</td>
<td>First-year graduate/subscription to AEVA + Set of Bain-Fallon Memorial Lectures</td>
<td>Awarded for proficiency in horse medicine and surgery in 4th Year.</td>
</tr>
<tr>
<td>Australian Small Animal Veterinary Association and Masterfoods Australia New Zealand Prize in Medicine and Surgery</td>
<td>$300 + 2yrs membership to ASAVA</td>
<td>Awarded for proficiency in small animal medicine and surgery.</td>
</tr>
<tr>
<td>Australian Society for Parasitology Prize in Veterinary Parasitology</td>
<td>400.00</td>
<td>Awarded for proficiency in Parasitology 3 (may be shared).</td>
</tr>
<tr>
<td>Australian Veterinarians in Public Health Students Prize</td>
<td>150 + Cert</td>
<td>Awarded for Excellence in Veterinary Public Health Studies.</td>
</tr>
<tr>
<td>Auxiliary to the AVA (NSW Division) Prize for 3rd Year</td>
<td>100.00</td>
<td>Awarded for the greatest improvement in 3rd year after having passed 2nd year with more than 60%.</td>
</tr>
<tr>
<td>Auxiliary to the AVA (NSW Division) Prize for Cell Biology and Veterinary Anatomy &amp; Physiology I and II</td>
<td>100.00</td>
<td>Awarded for proficiency in Cell Biology &amp; Veterinary Anatomy &amp; Physiology in 1st and 2nd Years.</td>
</tr>
<tr>
<td>Auxiliary to the AVA (NSW Division) Prize in Animal Genetics</td>
<td>100.00</td>
<td>Awarded for proficiency in Animal Genetics.</td>
</tr>
<tr>
<td>Auxiliary to the AVA (NSW Division) Prize in Veterinary Medicine &amp; Clinical Pathology</td>
<td>100.00</td>
<td>Awarded for proficiency in 4th year Veterinary Medicine &amp; Clinical Pathology.</td>
</tr>
<tr>
<td>AVA Prize for Undergraduates in Veterinary Pathology</td>
<td>200 + 1yr subscription to AVA</td>
<td>Awarded for proficiency in Veterinary Pathology.</td>
</tr>
<tr>
<td>AVA Student Award</td>
<td>Certificate + 2yrs subscription to AVA</td>
<td>Awarded to a student who through their academic work and participation in student affairs, are considered to be an asset to the student body and potentially an asset to the veterinary profession and the AVA.</td>
</tr>
<tr>
<td>Baker and Ridley Memorial Prize for Animal Husbandry</td>
<td>150.00</td>
<td>Awarded for proficiency in 4th year Animal Husbandry Practical Report.</td>
</tr>
<tr>
<td>CW Emmens Prize in Veterinary Physiology</td>
<td>100.00</td>
<td>Awarded for the highest aggregate marks in 1st and 2nd year Veterinary Anatomy &amp; Physiology in sequential years.</td>
</tr>
<tr>
<td>Chapter of Veterinary Pharmacology of the Australian College of Veterinary Scientists Prize in Veterinary Pharmacology &amp; Toxicology</td>
<td>Medal &amp; Testament</td>
<td>Awarded for proficiency in 3rd year Veterinary Pharmacology and Toxicology.</td>
</tr>
<tr>
<td>Schering-Plough Prize in Veterinary Parasitology</td>
<td>225.00</td>
<td>Awarded for proficiency Veterinary Parasitology in 3rd year.</td>
</tr>
<tr>
<td>Epidemiology Chapter of the Australian College of Veterinary Scientists Prize in Epidemiology</td>
<td>Medallion + $100</td>
<td>Awarded for proficiency in VETS5338 Rural Public Practice Rotation and knowledge of Epidemiology, based on written report submitted.</td>
</tr>
<tr>
<td>Scholarship Name</td>
<td>Award Value</td>
<td>Criteria</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>FH Loxton Scholarship in BSc(Vet)</td>
<td>Eqv. To HECS fee Band 4</td>
<td>BSc(Vet) Students - by application only.</td>
</tr>
<tr>
<td>Furr Memorial Prize in Animal Husbandry</td>
<td>50.00</td>
<td>Awarded for proficiency in 1st year horse husbandry.</td>
</tr>
<tr>
<td>Goodman Fielder - Uncle Tobys Prizes for Animal Nutrition</td>
<td>400.00 x 2</td>
<td>Awarded for proficiency in 2nd year animal nutrition.</td>
</tr>
<tr>
<td>Grahame Edgar Scholarship</td>
<td>2,000.00</td>
<td>BSc(Vet) Students - by application only.</td>
</tr>
<tr>
<td>HG Belschner Prize in Sheep and Wool</td>
<td>100.00</td>
<td>Awarded for proficiency in 1st year sheep and wool.</td>
</tr>
<tr>
<td>HR Carne Prize and Medal for Excellence in the Bachelor of Science (Vet) Degree</td>
<td>Medal + 250</td>
<td>Awarded for proficiency in the examinations for BSc(Vet) degree.</td>
</tr>
<tr>
<td>Hill's 'Buddy' Award</td>
<td>Plaque + $500</td>
<td>New prize in 2006 - criteria to be advised</td>
</tr>
<tr>
<td>JD Stewart Essay Prize in Veterinary Science</td>
<td>60.00</td>
<td>NEW CRITERIA FOR 2005</td>
</tr>
<tr>
<td>Jack Moran Prize in Veterinary Public Health</td>
<td>20.00</td>
<td>NEW CRITERIA FOR 2005</td>
</tr>
<tr>
<td>John Gurner and Frederick Ebsworth Scholarship in Cell Biology 1A</td>
<td>350.00</td>
<td>Awarded for proficiency in Cell Biology 1A in 1st year.</td>
</tr>
<tr>
<td>John Gurner and Frederick Ebs worth Scholarship in Cell Biology IB</td>
<td>350.00</td>
<td>Awarded for proficiency in Cell Biology IB in 1st year.</td>
</tr>
<tr>
<td>John Gurner and Frederick Ebs worth Scholarship in Chemistry</td>
<td>350.00</td>
<td>Awarded for proficiency in Chemistry in 1st year.</td>
</tr>
<tr>
<td>KG Johnston Prize in Veterinary Clinical Pathology</td>
<td>150.00</td>
<td>Awarded for proficiency in Veterinary Medicine &amp; Clinical Pathology</td>
</tr>
<tr>
<td>Lonsdale Prize (A) in Clinical Studies</td>
<td>400.00</td>
<td>Awarded for proficiency in Clinical Studies in 4th year.</td>
</tr>
<tr>
<td>Lonsdale Prize (B) in Clinical Studies</td>
<td>200.00</td>
<td>Awarded for proficiency in Clinical Studies in 4th year.</td>
</tr>
<tr>
<td>Mayne Health Vetnostics Prize in Veterinary Clinical Pathology</td>
<td>500.00</td>
<td>Awarded for proficiency in Veterinary Clinical Pathology in 4th Year</td>
</tr>
<tr>
<td>MLA Beef Cattle Welfare Science Prize</td>
<td>400.00</td>
<td>Awarded annually to the student enrolled in VETS3018 Animal Behaviour &amp; Animal Welfare Science who demonstrates the greatest proficiency in the Animal Welfare Science essay with a mark of 85% or more and a focus on beef cattle.</td>
</tr>
<tr>
<td>MLA A Sheep Welfare Science Prize</td>
<td>400.00</td>
<td>Awarded annually to the student enrolled in VETS3018 Animal Behaviour &amp; Animal Welfare Science who demonstrates the greatest proficiency in the Animal Welfare Science essay with a mark of 85% or more and a focus on sheep.</td>
</tr>
<tr>
<td>NPH Graham Prize in Sheep Medicine</td>
<td>200.00</td>
<td>Awarded for proficiency in the sheep component of Veterinary Ruminant Health &amp; Production</td>
</tr>
<tr>
<td>Post Graduate Foundation Veterinary Prize</td>
<td>Certificate for $1000 towards further education with PGF</td>
<td>Awarded for clinical competency to a graduating veterinarian</td>
</tr>
<tr>
<td>Powerhouse Logistics Prize for Veterinary Conservation Biology</td>
<td>500.00</td>
<td>Awarded for proficiency in VETS2015 Veterinary Conservation Biology</td>
</tr>
<tr>
<td>Rex Butterfield Prize in Veterinary Anatomy</td>
<td>50.00</td>
<td>Awarded for proficiency in Veterinary Anatomy in 2nd year</td>
</tr>
<tr>
<td>Richard Norman Sanders Prize</td>
<td>600.00</td>
<td>Awarded for proficiency in practical clinical work in both the 4th and 5th years of study</td>
</tr>
<tr>
<td>Robert Reeves Hodgkiss Prize</td>
<td>250.00</td>
<td>Awarded for proficiency in the Horse Medicine &amp; Surgery in Year 4</td>
</tr>
<tr>
<td>RSPCA/Una Clare Spark Animal Welfare Scholarship</td>
<td>Eqv. To HECS fee Band 4</td>
<td>Established in 2003 to promote and encourage research related to animal welfare. Awarded to a Bachelor of Science (Veterinary) student based on the appropriateness of the proposed program of study.</td>
</tr>
<tr>
<td>RSPCA (Australia) Pig Welfare Science Prize</td>
<td>175.00</td>
<td>Awarded annually to the student enrolled in VETS3018 Animal Behaviour and Animal Welfare Science who demonstrates the greatest proficiency in the Animal Welfare Science Essay to do with Pig Welfare Science</td>
</tr>
<tr>
<td>STD Symons Prize for Clinical Studies</td>
<td>175.00</td>
<td>Awarded annually to the student enrolled in VETS3018 Animal Behaviour and Animal Welfare Science who demonstrates the greatest proficiency in the Animal Welfare Science Essay to do with Pig Welfare Science</td>
</tr>
<tr>
<td>Stewart Prize in Veterinary Medicine</td>
<td>180.00</td>
<td>Awarded for proficiency in Veterinary Medicine in 4th year</td>
</tr>
<tr>
<td>The Jean and Ray Blencowe Scholarship</td>
<td>1,000.00</td>
<td>Awarded each year to the student in NSW who achieves the highest aggregate score in the Higher School Certificate and who is admitted to a full-time University course in NSW in Veterinary Science in the following year.</td>
</tr>
<tr>
<td>The Veterinarian Magazine Prize for Written Communication</td>
<td>One Year Subscriptio to The Veterinarian Magazine</td>
<td>Awarded annually to students enrolled in VETS3018 Animal Behaviour and Animal Welfare Science who achieve a high distinction in the Animal Welfare Science Essay.</td>
</tr>
<tr>
<td>Veterinary Imaging Associates Prize in Veterinary Radiology</td>
<td>Book prize to the value of $200.00</td>
<td>Awarded for proficiency in Veterinary Radiology in 4th year.</td>
</tr>
<tr>
<td>Vet's Best Products Reward</td>
<td>300.00</td>
<td>Awarded for proficiency in VETS3018 Animal Behaviour and Animal Welfare Science for the greatest understanding of animal training in the Animal Welfare Science Essay</td>
</tr>
<tr>
<td>VETSOC Final Year Scholarships</td>
<td>250.00 x 2</td>
<td>By application</td>
</tr>
<tr>
<td>Virginia Osborne Prize for Anatomy of the Horse</td>
<td>250.00</td>
<td>Awarded for proficiency in anatomy of the horse in 2nd year.</td>
</tr>
<tr>
<td>WR Sidman Memorial Prize awarded by AVA (NSW Div) for Clinical Studies in 4th Year</td>
<td>2 yrs membership to AVA</td>
<td>Awarded for proficiency in Veterinary Clinical Studies in 4th year.</td>
</tr>
<tr>
<td>Wally McGreevy Prize in Animal Welfare Science</td>
<td>150.00</td>
<td>Awarded for proficiency in Animal Behaviour and Animal Welfare Science</td>
</tr>
<tr>
<td>William James McHugh Prize in Equine Medicine or Surgery</td>
<td>300.00</td>
<td>Awarded to a 4th or 5th year student who prepares the best case report in equine medicine or surgery provided the entry is of sufficient merit.</td>
</tr>
</tbody>
</table>
7. Other Faculty information

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRES Wildlife Prize</td>
<td>250.00</td>
<td>Awarded for proficiency in the 'Written Project' component of Veterinary Conservation Biology in Year 2 relating to Australian native wildlife.</td>
</tr>
<tr>
<td>Friends of the Brush-Tailed Rock Wallaby Scholarship (NB: The Scholarship will not be awarded in 2006 &amp; 2007)</td>
<td>2,000.00</td>
<td>Awarded to a student enrolled in the Masters of Applied Science (Wildlife Health and Population Management) program, for research that will enhance knowledge of the Brush-tailed Rock Wallaby and/or its habitat.</td>
</tr>
</tbody>
</table>
University of Sydney (Coursework) Rule 2000 (as amended)

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "http://www.usyd.edu.au/handbooks/".

Approved by: Senate on 4 December 2000
Date of effect: 1 January 2001

Latest amendment approved by: Senate on 3 December 2001
Date of effect: 1 January 2002

Preliminary

Rules relating to Coursework Award Courses

Division 1 Award course requirements, credit points and assessment
Division 2 Enrolment
Division 3 Credit, cross-institutional study and their upper limits
Division 4 Progression
Division 5 Discontinuation of enrolment and suspension of candidature
Division 6 Unsatisfactory progress and exclusion
Division 7 Exceptional circumstances
Division 8 Award of degrees, diplomas and certificates
Division 9 Transitional provisions

University of Sydney (Coursework) Rule 2000 (as amended)

Preliminary

1. Commencement and purpose of Rule
(1) This Rule is made by the Senate pursuant to section 37(1) of the University of Sydney Act 1989 for the purposes of the University of Sydney By-law 1999.
(2) This Rule comes into force on 1 January 2001.
(3) This Rule governs all coursework award courses in the University. It is to be read in conjunction with the University of Sydney (Amendment Act) Rule 1999 and the Resolutions of the Senate and the faculty resolutions relating to each award course in that faculty.

Rules relating to coursework award courses

1. Definitions
In this Rule:
award course means a formally approved program of study which can lead to an academic award granted by the University.
coursework means an award course not designated as a research award course. While the program of study in a coursework award course may include a component of original, supervised research, other forms of instruction and learning normally will be dominant. All undergraduate award courses are coursework award courses.
credit means advanced standing based on previous attainment in an award course. Credit may be granted as specific credit or non-specific credit.
specific credit means the recognition of previously completed studies as directly equivalent to units of study;
non-specific credit means a "block credit" for a specified number of credit points at a particular level. These credit points may be in a particular subject area but are not linked to a specific unit of study; and
credit points means a measure of value indicating the contribution each unit of study provides towards meeting award course completion requirements stated as a total credit point value.
dean means the dean of a faculty or the director or principal of an academic college or the chairperson of a board of studies.
degree means a degree at the level of bachelor or master for the purpose of this Rule;
embedded courses/programs means award courses in the graduate certificate/graduate diploma/master's degree by coursework sequence which allow unit of study credit points to count in more than one of the awards.
faculty means a faculty, college board, a board of studies or the Australian Graduate School of Management Limited as established in each case by its constitution and in these Rules refers to the faculty or faculties responsible for the award course concerned.
minor means a defined program of study, generally comprising specified units of study from later stages of the award course.
major means a defined program of study, generally comprising units of study from later stages of the award course and requiring a smaller number of credit points than a major.
postgraduate award course means an award course leading to the award of a graduate certificate, graduate diploma, degree of master or a doctorate. Normally, a postgraduate award course requires the prior completion of a relevant undergraduate degree or diploma.
research award course means an award course in which students undertake and report systematic, creative work in order to increase the stock of knowledge. The research award courses offered by the University are: higher doctorate, Doctor of Philosophy, doctorates by research and advanced coursework, and certain degrees of master designated as research degrees. The systematic, creative component of a research award course must comprise at least 66 per cent of the overall award course requirements.
stream means a defined program of study within an award course, which requires the completion of a program of study specified by the award course rules for the particular stream, in addition to the core program specified by award course rules for the award course.
student means a person enrolled as a candidate for a course.
testamur means a certificate of award provided to a graduate, usually at a graduation ceremony.
transcript or academic transcript means a printed statement setting out a student's academic record at the University.
unit of study means a measure of value indicating the contribution one unit of study provides towards meeting award course completion requirements stated as a total credit point value.
university means the University of Sydney.
undergraduate award course means an award course leading to the award of an associate diploma, diploma, advanced diploma or degree of bachelor.

2. Authorities and responsibilities
(1) Authorities and responsibilities for the functions set out in this Rule are also defined in the document Academic Delegations of Authority. The latter document sets out the mechanisms by which a person who has delegated authority may appoint an agent to perform a particular function.
(2) The procedures for consideration of, and deadlines for submission of, proposals for new and amended award courses will be determined by the Academic Board.

Division 1: Award course requirements, credit points and assessment

3. Award course requirements
(1) To qualify for the award of a degree, diploma or certificate, a student must:
(a) complete the award course requirements specified by the Senate for the award of the degree, diploma or certificate concerned;
(b) complete any other award course requirements specified by the Academic Board on the recommendation of the faculty and published in the faculty resolutions relating to the award course;
(c) complete any other award course requirements specified by the faculty in accordance with its delegated authority...
4. Units of study and credit points

(1) A unit of study comprises the forms of teaching and learning approved by a faculty. Where the unit of study is being provided specifically for an award course which is the responsibility of another faculty, that faculty must also provide approval.

(b) Any faculty considering the inclusion of a unit of study in the tables of units available for an award course for which it is responsible may review the forms of teaching and learning of that unit, may consult with the approving faculty about aspects of that unit and may specify additional conditions with respect to inclusion of that unit of study.

(2) A student completes a unit of study if the student:

(a) participates in the learning experiences provided for the unit of study;

(b) meets the standards required by the University for academic honesty;

(c) meets all examination, assessment and attendance requirements for the unit of study; and

(d) passes the required assessments for the unit of study.

(3) Each unit of study is assigned a specified number of credit points by the faculty responsible for the unit of study.

(4) The total number of credit points required for completion of an award course will be as specified in the Senate resolutions relating to the award course.

(5) The total number of credit points required for completion of award courses in an approved combined award course will be specified in the Senate or faculty resolutions relating to the award course.

(6) A student may, under special circumstances, and in accordance with faculty resolutions, be permitted by the relevant dean to undertake a unit or units of study other than those specified in the faculty resolutions relating to the award course and have that unit or units of study towards fulfilling the requirements of the award course in which the student is enrolled.

5. Unit of study assessment

(1) A student who completes a unit of study will normally be awarded grades of high distinction, distinction, credit or pass, in accordance with policies established by the Academic Board. The grades high distinction, distinction and credit indicate work of a standard higher than that required for a pass.

(2) A student who completes a unit of study will normally be awarded grades of high distinction, distinction, credit or pass, in accordance with policies established by the Academic Board. The grades high distinction, distinction and credit indicate work of a standard higher than that required for a pass.

(3) In determining the results of a student in any unit of study, the whole of the student’s work in the unit of study may be taken into account.

(4) Examination and assessment in the University are conducted in accordance with the policies and directions of the Academic Board.

6. Attendance

(1) A faculty has authority to specify the attendance requirements for courses or units of study in that faculty. A faculty must take into account any University policies concerning modes of attendance, equity and disabled access.

(2) A faculty has authority to specify the circumstances under which a student who does not satisfy attendance requirements may be deemed not to have completed a unit of study or an award course.

7. Enrolment restrictions

(1) A student who has completed a unit of study towards the requirements of an award course may not re-enrol in that unit of study, except as permitted by faculty resolution or with the written permission of the dean. A student permitted to re-enrol may receive a higher or lower grade, but not additional credit points.

(2) Except as provided in subsection (1), a student may not enrol in any unit of study which overlaps substantially in content with a unit that has already been completed or for which credit or exemption has been granted towards the award course requirements.

(3) A student may not enrol in units of study additional to award course requirements without first obtaining permission from the relevant dean.

(4) Except as prescribed in faculty resolutions or with the permission of the relevant dean:

(a) a student enrolled in an undergraduate course may not enrol in units of study with a total value of more than 32 credit points in any one semester, or 16 credit points in the summer session; and

(b) a student enrolled in a postgraduate award course may not enrol in units of study with a total value of more than 24 credit points in any one semester, or 12 credit points in the summer session.

Division 3: Credit, cross-institutional study and their upper limits

8. Credit for previous studies

(1) Students may be granted credit on the basis of previous studies.

(2) Notwithstanding any credit granted on the basis of work completed or prior learning in another award course at the University of Sydney or in another institution, in order to qualify for an award a student must:

(a) for undergraduate award courses, complete a minimum of the equivalent of two full-time semesters of the award course at the University; and

(b) for postgraduate award courses, complete at least 50 per cent of the requirements prescribed for the award course at the University.

(3) The credit granted on the basis of work completed at an institution other than a university normally should not exceed one third of the overall award course requirements.

(4) A faculty has authority to establish embedded academic sequences in closely related graduate certificate, graduate diploma and master’s degree award courses. In such embedded sequences, a student may be granted credit for all or some of the units of study completed in one award of the sequence towards any other award in the sequence, irrespective of whether or not the award has been conferred.

(5) In an award course offered as part of an approved conjoint venture the provisions for the granting of credit are prescribed in the Resolutions of the Senate and the faculty resolutions relating to that award course.

9. Cross-institutional study

(1) The relevant dean may permit a student to complete a unit or units of study at another university or institution and have that unit or those units of study credited to the student’s award course.

(2) The relevant dean has authority to determine any conditions applying to cross-institutional study.

Division 4: Progression

10. Repeating a unit of study

(1) A student who repeats a unit of study shall, unless granted exemption by the relevant dean:

(a) participate in the learning experiences provided for the unit of study; and

(b) meet all examination, assessment and attendance requirements for the unit of study.

(2) A student who presents for re-assessment in any unit of study is not eligible for any prize or scholarship awarded in connection with that unit of study without the permission of the relevant dean.

11. Time limits

A student must complete all the requirements for an award course within ten calendar years or any lesser period if specified by resolution of the Senate or the faculty.
Division 6: Unsatisfactory progress and exclusion

12. Discontinuation of enrolment

(1) A student who wishes to discontinue enrolment in an award course or a unit of study must apply to the relevant dean and will be presumed to have discontinued enrolment from the date of that application, unless evidence is produced showing:
   (a) the discontinuation occurred at an earlier date; and
   (b) there was good reason why the application could not be made at the earlier time.

(2) A student who discontinues enrolment during the first year of enrolment in an award course may not re-enrol in that award course unless:
   (a) the relevant dean has granted prior permission to re-enrol; or
   (b) the student is reselected for admission to candidature for that course.

(3) No student may discontinue enrolment in an award course or unit of study after the end of classes in that award course or unit of study, unless he or she produces evidence that:
   (a) the discontinuation occurred at an earlier date; and
   (b) there was good reason why the application could not be made at the earlier time.

(4) A discontinuation of enrolment may be recorded as “Withdrawn (W)” or “Discontinued Not To Count As Failure (DNF)” where that discontinuation occurs within the time-frames specified by the University and published by the faculty, or where the student meets other conditions as specified by the relevant faculty.

13. Suspension of candidature

(1) A student must be enrolled in each semester in which he or she is actively completing the requirements for the award course. A student who wishes to suspend candidature must first obtain approval from the relevant dean.

(2) The candidature of a student who has not re-enrolled and who has not obtained approval from the dean for suspension will be deemed to have lapsed.

(3) A student whose candidature has lapsed must apply for re-admission in accordance with procedures determined by the relevant faculty.

(4) A student who enrolls after suspending candidature shall complete the requirements for the award course under such conditions as determined by the dean.

14. Satisfactory progress

A faculty has authority to determine what constitutes satisfactory progress for all students enrolled in award courses in that faculty, in accordance with the policies and directions of the Academic Board.

15. Requirement to show good cause

(1) For the purposes of this Rule, “good cause” means circumstances beyond the reasonable control of a student, which may include serious ill health or misadventure, but does not include demands of employers, pressure of employment or time devoted to non-University activities, unless these are relevant to serious ill health or misadventure. In all cases the onus is on the student to provide the University with satisfactory evidence to establish good cause. The University may take into account relevant aspects of a student’s record in other courses or units of study within the University and relevant aspects of academic studies at other institutions provided that the student presents this information to the University.

(2) The relevant dean may require a student who has not made satisfactory progress to show good cause why he or she should be allowed to re-enrol.

(3) The dean will permit a student who has shown good cause to re-enrol.

16. Exclusion for failure to show good cause

The dean may, where good cause has not been established:
   (1) exclude the student from the relevant course; or
   (2) permit the student to re-enrol in the relevant award course subject to restrictions on units of study, which may include, but are not restricted to:

(a) completion of a unit or units of study within a specified time;
(b) exclusion from a unit or units of study, provided that the dean must first consult the head of the department responsible for the unit or units of study; and
(c) specification of the earliest date upon which a student may re-enrol in a unit or units of study.

17. Applying for re-admission after exclusion

(1) A student who has been excluded from an award course or from a unit or units of study may apply to the relevant dean for re-admission to the award course or re-enrolment in the unit or units of study concerned after at least four semesters, and that dean may readmit the student to the award course or permit the student to re-enrol in the unit or units of study concerned.

(2) With the written approval of the relevant dean, a student who has been excluded may be given credit for any work completed elsewhere in the University or in another university during a period of exclusion.

18. Appeals against exclusion

(1) In this Rule a reference to the Appeals Committee is a reference to the Senate Student Appeals Committee (Exclusions and Re-admissions).

(2) (a) (i) A student who has been excluded in accordance with this Rule may appeal to the Appeals Committee.

   (ii) A student who has applied for re-admission to an award course or re-enrolment in a unit of study after a period of exclusion, and who is refused re-admission or re-enrolment may also apply to the Appeals Committee.

(b) The Appeals Committee shall comprise:

   (i) three ex officio members (the Chancellor, the Deputy Chancellor and the Vice-Chancellor and Principal);
   (ii) the Chair and Deputy Chairs of the Academic Board;
   (iii) two student Fellows; and
   (iv) up to four other Fellows.

(c) The Appeals Committee may meet as one or more subcommittees providing that each subcommittee shall include at least one member of each of the categories of:

   (i) ex officio member;
   (ii) Chair or Deputy Chair of the Academic Board;
   (iii) student Fellow; and
   (iv) other Fellows.

(d) Three members shall constitute a quorum for a meeting of the Appeals Committee or a subcommittee.

(e) The Appeals Committee and its subcommittees have authority to hear and determine all such appeals and must report its decision to the Senate annually.

(f) The Appeals Committee or a subcommittee may uphold or disallow any appeal and, at its discretion, may determine the earliest date within a maximum of four semesters at which a student who has been excluded shall be permitted to apply to re-enrol.

(g) No appeal shall be determined without granting the student the opportunity to appear in person before the Appeals Committee or subcommittee considering the appeal. A student so appearing may be accompanied by a friend or adviser.

(h) The Appeals Committee or subcommittee may hear the relevant dean but that dean may only be present at those stages at which the student is permitted to be present. Similarly, the dean is entitled to be present when the Committee or subcommittee hears the student.

(i) If, due notice having been given, a student fails to attend a meeting of the Appeals Committee or subcommittee scheduled to consider that student’s appeal, the Appeals Committee or subcommittee, at its discretion, may defer consideration of the appeal or may proceed to determine the appeal.

(j) A student who has been excluded in accordance with these resolutions and has lodged a timely appeal against that exclusion may re-enrol pending determination of that appeal if it has not been determined by the commencement of classes in the next appropriate semester.
Division 7: Exceptional circumstances

19. Variation of award course requirements in exceptional circumstances

The relevant dean may vary any requirement for a particular student enrolled in an award course in that faculty where, in the opinion of the dean, exceptional circumstances exist.

Division 8: Award of degrees, diplomas and certificates

20. Classes of award

(1) Undergraduate diplomas may be awarded in five grades - pass, pass with merit, pass with distinction, pass with high distinction or honours.
(2) Degrees of bachelor may be awarded in two grades - pass or honours.
(3) Graduate diplomas and graduate certificates may be awarded in one grade only - pass.
(4) Degrees of master by coursework may be awarded three grades - pass, pass with merit or honours.

21. Award of the degree of bachelor with honours

(1) The award of honours is reserved to indicate special proficiency. The basis on which a student may qualify for the award of honours in a particular award course is specified in the faculty resolutions relating to the course.
(2) Each faculty shall publish the grading systems and criteria for the award of honours in that faculty.
(3) Classes which may be used for the award of honours are:
   - First Class
   - Second Class/Division 1
   - Second Class/Division 2
   - Third Class
(4) With respect to award courses which include an additional honours year:
   - (a) a student may not graduate with the pass degree while enrolled in the honours year;
   - (b) on the recommendation of the head of the department concerned, a dean may permit a student who has been awarded the pass degree at a recognised tertiary institution to enrol in the honours year in that faculty;
   - (c) faculties may prescribe the conditions under which a student may enrol part-time in the honours year;
   - (d) a student who fails or discontinues the honours year may not re-enrol in it, except with the approval of the dean.

22. University Medal

An honours bachelor's degree student with an outstanding academic record throughout the award course may be eligible for the award of a University Medal, in accordance with Academic Board policy and the requirements of the faculty resolutions relating to the award course concerned.

23. Award of the degree of master with honours or merit

The award of honours or pass with merit is reserved to indicate special proficiency or particular pathways to completion. The basis on which a student may qualify for the award of honours or the award with merit in a particular degree is specified in the Faculty Resolutions relating to that degree.

24. Transcripts and testamurs

(1) A student who has completed an award course or a unit of study at the University will receive an academic transcript upon application and payment of any charges required.
(2) Testamurs may indicate streams or majors or both as specified in the relevant faculty resolutions.

Division 9: Transitional provisions

25. Application of this Rule during transition

This Rule applies to all candidates for degrees, diplomas and certificates who commence candidature after 1 January 2001. Candidates who commenced candidature prior to this date may choose to proceed in accordance with the resolutions of the Senate in force at the time they enrolled, except that the faculty may determine specific conditions for any student who has re-enrolled in an award course after a period of suspension.
Local applicants for postgraduate courses and programs of study

For the purpose of admission and enrolment "local applicant" refers to citizens and permanent residents of Australia and citizens of New Zealand. If you are in this group and wish to apply for admission through the University's International Office (IO) (see International Student Centre entry). All the information international applicants need, including application forms, is available from the IO website.

Accommodation Service

The Accommodation Service helps students find off-campus accommodation. The service maintains an extensive database of accommodation close to the Camperdown and Darlington Campus or within easy access via public transport. Currently enrolled students can access the database online through the MyUni student portal (http://myuni.usyd.edu.au), or the accommodation website via your MyUni student portal or the Services for Students website (http://www.usyd.edu.au/stuserv). Level 7, Education Building A3 5 The University of Sydney NSW 2006 Australia Phone: +61 29351 3312 Fax:+61 2 9351 8262 Email: accomm@stuserv.usyd.edu.au Web: www.usyd.edu.au/accom

Admissions Office

The Admissions Office, located in the Student Centre, is responsible for overseeing the distribution of offers to undergraduate applicants through the Universities Admission Centre (UAC). They can advise prospective local undergraduate students on admission requirements. Postgraduate students should contact the appropriate faculty. If you are an Australian citizen or permanent resident but have qualifications from a non-Australian institution phone +61 2 9351 4118 for more information. For enquiries regarding special admissions (including mature-age entry) phone +61 2 9351 3615. Applicants without Australian citizenship or permanent residency should contact the International Office (see International Student Centre entry).

Applying for a course

Local applicants for undergraduate courses and programs of study

For the purpose of admission and enrolment "local applicant" refers to citizens and permanent residents of Australia and citizens of New Zealand. If you are in this group and wish to apply for admission into an undergraduate course, you would generally apply through the Universities Admission Centre (UAC). The deadline for application is the last working day of September in the year before enrolment. Go to the UAC website (http://www.uac.edu.au) for more information.

Note that some faculties, such as Pharmacy, the Sydney Conservatorium of Music and Sydney College of the Arts, have additional application procedures.

Local applicants for postgraduate courses and programs of study

For the purpose of admission and enrolment "local applicant" refers to citizens and permanent residents of Australia and citizens of New Zealand. Application is direct to the faculty which offers the course that you are interested in. Application forms for postgraduate coursework, postgraduate research and the Master's qualifying or preliminary program and for non-award postgraduate study can be found at www.usyd.edu.au/su/studentcentre/applications/applications.html.

Please note that some faculties use their own specially tailored application forms for admission into their courses. Please contact the relevant faculty.

International applicants for all course types (undergraduate and postgraduate)

"International applicants" refers to all applicants other than Australian citizens, Australian permanent residents and citizens of New Zealand. In the majority of cases international applicants apply for admission through the University's International Office (IO) (see International Student Centre entry). All the information international applicants need, including application forms, is available from the IO website.

Assessment

For assessment matters refer to the relevant department or school.

Careers Centre

The Careers Centre will help you with careers preparation and graduate recruiting.

Careers Centre
Ground Floor, Mackie Building KOI The University of Sydney NSW 2006 Australia Phone:+61 2 9351 3481 Fax:+61 2 9351 3134 Email: info@careers.usyd.edu.au Web: www.careers.usyd.edu.au

Casual Employment Service

The Casual Employment Service helps students find casual and part-time work during their studies and during University vacations. The service maintains a database of casual employment vacancies. Currently enrolled students can access the database online through the MyUni student portal, or the casual employment website via your MyUni student portal, or the Services for Students website (http://www.usyd.edu.au/stuserv).

Level 7, Education Building A3 5 The University of Sydney NSW 2006 Australia Phone:+61 2 9351 8714 Fax:+61 2 9351 8717 Email: ces@stuserv.usyd.edu.au Web: www.usyd.edu.au/cas_emp

Centre for Continuing Education

The Centre for Continuing Education offers a wide range of short courses for special interest, university preparation and professional development.

Centre for Continuing Education
Cnr Missenden Road and Campbell Street Sydney University Village Newtown NSW 2042 Postal address: Locked Bag 20 Glebe NSW 2037

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit http://www.usyd.edu.au/handbooks/.
General University information

Ph:+61 2 9036 4789
Fax:+61 2 9036 4799
Email: info@cce.usyd.edu.au
Web: www.cce.usyd.edu.au

Subject areas include: history and culture, creative arts, social sciences, languages, IT, business and overseas study tours. Courses are open to everyone.

Centre for English Teaching (CET)
The Centre for English Teaching (CET) offers English language and academic study skills programs to students from overseas and Australian residents from non-English speaking backgrounds who need to develop their English language skills to meet academic entry requirements.

Mallett Street Campus M02
Phone:+61 2 9351 0760
Fax:+61 2 9351 0710
Email: info@cet.usyd.edu.au
Web: www.usyd.edu.au/cet

Child care
Contact the Child Care Information Officer for information about child care for students and staff of the University who are parents.

Child Care Information Officer
Level 7, Education Building A3 5
Phone:+61 2 9351 5667
Fax:+61 2 9351 7055
Email: childcare@stuserv.usyd.edu.au
Web: www.usyd.edu.au/childcare

Client Services, Information and Communications Technology (ICT)
Client Services are responsible for the delivery of many of the computing services provided to students. Students can contact Client Services by phoning the ICT Helpdesk on 9351 6000, through the IT Assist website (www.itassist.usyd.edu.au) or by visiting the staff of the University Access Labs.

The access labs on the Camperdown and Darlington campus are located in:

- Fisher Library (Level 2);
- Carslaw Building (Room 201);
- Education Building (Room 232);
- Christopher Brennan Building (Room 232);
- Engineering Link Building (Room 222); and
- Pharmacy and Bank Building (Room 510).

Other labs are available at the Law, Westmead Hospital and Cumberland campuses.

The labs provide students free access to computers including office productivity and desktop publishing software.

Services available on a fee for service basis include Internet access, printing facilities and the opportunity to host their own non-commercial website.

Each student is supplied with an account, called a “Unikey” account, which allows access to a number of services including:

- free email (www-mail.usyd.edu.au);
- access to the Internet from home or residential colleges (www.itassist.usyd.edu.au/services.html);
- student facilities via the MyUni student portal (http://myuni.usyd.edu.au), including exam results, enrolment variations and timetabling; and
- free courses in basic computing (such as MS Office: basic html and excel) that are run by Access Lab staff in the week following orientation week. To register contact the Access Lab Supervisor on +61 2 9351 6870.

Client Services, Helpdesk
University Computer Centre, H08
The University of Sydney
NSW 2006 Australia
Phone:+61 2 9351 6000
Fax:+61 2 9351 6004
Email: support@usyd.edu.au
Web: www.itassist.usyd.edu.au

The Co-op Bookshop
The Co-op Bookshop is a one-stop bookshop for:

- textbooks;
- general books;
- course notes;
- reference books;
- DVDs;
- flash drives; and
- software at academic prices.

Lifetime membership costs $20.00 and gives a ten per cent discount on purchases (conditions apply).

Sports and Aquatic Centre Building G09
Phone:+61 2 9351 3705
Fax:+61 2 9660 5256
Email: sydu@coop-bookshop.com.au
Web: www.coop-bookshop.com.au

Counselling Service
The Counselling Service aims to help students fulfil their academic, individual and social goals through professional counselling. Counselling is free and confidential. The service provides short-term, problem-focused counselling to promote psychological wellbeing and to help students develop effective and realistic coping strategies. The service runs a program of workshops during each semester. For details of workshops, activities and online resources provided by the service see the Counselling Service website via your MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

Camperdown and Darlington
Level 7, Education Building A35
The University of Sydney
NSW 2006 Australia
Phone:+61 2 9351 2228
Fax:+61 2 9351 7055
Email: counsel@mail.usyd.edu.au
Web: www.usyd.edu.au/counsel

Cumberland Campus
Ground Floor, A Block, Cumberland Campus C42
The University of Sydney
East Street
Lidcombe
NSW 2141 Australia
Phone:+61 2 9351 9638
Fax:+61 2 9351 9635
Email: CS_Cumberland@fhs.usyd.edu.au
Web: www.usyd.edu.au/counsel
Disability Services
Disability Services is the principal point of contact for advice on assistance available for students with disabilities. The service works closely with academic and administrative staff to ensure that students receive reasonable accommodations in their areas of study. Assistance available includes the provision of note taking, interpreters and advocacy with academic staff to negotiate assessment and course requirement modifications where appropriate. For details on registering with the service and online resources see the Disability Services website via your MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

Camperdown and Darlington campuses
Level 7, Education Building A3 5
The University of Sydney
NSW 2006 Australia
Phone:+61 2 9351 7040
Fax:+61 2 9351 3320
TTY:+61 2 9351 3412
Email: disserv@stuserv.usyd.edu.au
Web: www.usyd.edu.au/disability

Cumberland Campus
Ground Floor, A Block, Cumberland Campus C42
The University of Sydney
East Street
Lidcombe
NSW 2141 Australia
Phone:+61 2 9351 9638
Fax:+61 2 9351 9635
Email: DS_Cumberland@fhs.usyd.edu.au
Web: www.usyd.edu.au/disability

Enrolment
Students entering first year
Details of enrolment procedures will be sent to you with your UAC offer of enrolment. Enrolment takes place at a specific time and date, usually during the last week of January, depending on your surname and the faculty in which you are enrolling. You must attend the University in person or else nominate somebody in writing to act on your behalf. On enrolment day you pay the compulsory fees for joining the Student Union, the Students’ Representative Council and the University wide Sustainable Campus Program. Some faculties, such as the Sydney Conservatorium of Music, make all examination arrangements for the units of study that they offer.

Examinations and Exclusions Office
Student Centre
Level 1, Carslaw Building F07
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4005 or +61 2 9351 4006
Fax:+61 2 9351 7330
Email: exams.office@exams.usyd.edu.au

Fees
The Fees Office provides information on how to pay fees, where to pay fees and if payments have been received. The office also has information on obtaining a refund for fee payments.

Financial Assistance Office
The University of Sydney has a number of loan and bursary funds to assist students experiencing financial difficulties. Loan assistance is available for undergraduate and postgraduate students enrolled in degree and diploma courses at the University. The assistance is not intended to provide the principle means of support but to help enrolled students in financial need with expenses such as housing bonds and rent; phone and electricity bills; medical expenses; buying textbooks and course equipment. Loans are interest free and are repayable usually within one year. Bursaries may be awarded depending on financial need and academic merit and are usually only available to local full-time undergraduate students. Advertised bursaries, including First Year Bursaries, are advertised through the MyUni student portal in January each year. For details of types of assistance and online resources provided by the service see the Financial Assistance website via your MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

General University information
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provided by the act. There are review and appeal mechanisms which apply when access has been refused.

The University is required to report to the public on its freedom of information (FOI) activities on a regular basis. The two reports produced are the *Statement of Affairs* and the *Summary of Affairs*. The *Statement of Affairs* contains information about the University, its structure, function and the kinds of documents held. The *Summary of Affairs* identifies the University’s policy documents and provides information on how to make an application for access to University documents.

Further information and copies of the current reports may be found at [www.usyd.edu.au/arms/foi](http://www.usyd.edu.au/arms/foi).

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**Graduations Office**

The Graduations Office is responsible for organising graduation ceremonies and informing students of their graduation arrangements.

- **Student Centre**
  - Carslaw Building F07
  - The University of Sydney
  - NSW 2006 Australia
  - Phone: +61 2 9351 3199, +61 2 9351 4009
  - Protocol: +61 2 9351 4612
  - Fax: +61 2 9351 5072

**Grievances** Appeals

You may consider that a decision affecting your candidature for a degree or other activities at the University has not taken into account all relevant matters.

In some cases the by-laws or resolutions of the Senate (see the University Calendar [http://www.usyd.edu.au/about/publication/pub/calendar.shtml](http://www.usyd.edu.au/about/publication/pub/calendar.shtml)) provide for a right of appeal against particular decisions; for example, there is provision for appeal against academic decisions, disciplinary decisions and exclusion after failure.

A document outlining the current procedures for appeals against academic decisions is available at the Student Centre, at the SRC, and on the University’s policy online website ([htp://www.usyd.edu.au/policy](http://www.usyd.edu.au/policy)) (click on “Study at the University”, then click on “Appeals” - see the Academic Board and Senate resolutions).

For assistance or advice regarding an appeal contact:

- **Students’ Representative Council**
  - Level 1, Wentworth Building G01
  - The University of Sydney
  - NSW 2006 Australia
  - Phone: +61 2 9660 5222

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**HECS and Fees Office**

- **Student Centre**
  - Ground Floor, Carslaw Building F07
  - The University of Sydney
  - NSW 2006 Australia
  - Phone: +61 2 9351 5659, +61 2 9351 5062, +61 2 9351 2086
  - Fax: +61 2 9351 5081

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**International Student Centre**

The International Student Centre consists of the International Office and the Study Abroad and Exchange Office. The IO provides assistance with application, admission and enrolment procedures and administers scholarships for international students. The Study Abroad and Exchange unit assists both domestic and international students who wish to enrol for study abroad or exchange programs.

- **International Student Centre**
  - Services Building G12
  - The University of Sydney
  - NSW 2006 Australia
  - Phone: +61 2 9351 4079
  - Fax: +61 2 9351 4013
  - Email: [info@io.usyd.edu.au](mailto:info@io.usyd.edu.au)
  - Web: [www.usyd.edu.au/international](http://www.usyd.edu.au/international)

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**Study Abroad and Exchange Unit**

- **Study Abroad**
  - Phone: +61 2 9351 3699
  - Fax: +61 2 9351 2795
  - Email: [studyabroad@io.usyd.edu.au](mailto:studyabroad@io.usyd.edu.au)

- **Exchange**
  - Phone: +61 2 9351 3699
  - Fax: +61 2 9351 2795
  - Email: [exchange@io.usyd.edu.au](mailto:exchange@io.usyd.edu.au)

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**International Student Services Unit**

The International Student Services Unit assists international students through the provision of orientation, counselling and welfare services to both students and their families. ISSU aims to help international students cope successfully with the challenges of living and studying in an unfamiliar culture, to achieve success in their studies and to make the experience of being an international student rewarding and enjoyable. For details of orientation activities, counselling and welfare services provided to both students and their families and online resources, see the MyUni student portal or the Services for Students website [www.usyd.edu.au/stuserv](http://www.usyd.edu.au/stuserv). International students also have access to all University student support services.

- **Camperdown and Darlington campuses**
  - Ground Floor, Services Building G12
  - The University of Sydney
  - NSW 2006 Australia
  - Phone: +61 2 9351 4749
  - Fax: +61 2 9351 6818
  - Email: [info@issu.usyd.edu.au](mailto:info@issu.usyd.edu.au)

- **Cumberland Campus**
  - Ground Floor, A Block, Cumberland Campus C42
  - The University of Sydney
  - East Street
  - Lidcombe
  - NSW 2141 Australia
  - Phone: +61 2 9351 9638
  - Fax: +61 2 9351 9635
  - Email: [ISSU_Cumberland@fhs.usyd.edu.au](mailto:ISSU_Cumberland@fhs.usyd.edu.au)

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**Koori Centre and Yooroang Garang**

The Koori Centre provides programs, services and facilities to encourage and support the involvement of Aboriginal and Torres Strait Islander people in all aspects of tertiary education at the University of Sydney. The Cadigal Special Entry Program assists Indigenous Australians to enter undergraduate study across all areas of the University.

As well as delivering block-mode courses for Indigenous Australian students, the Koori Centre teaches Aboriginal Studies in various mainstream courses. In addition the Centre provides tutorial assistance, and student facilities such as: computer lab, Indigenous research library and study rooms.

In particular the Koori Centre aims to increase the successful participation of Indigenous Australians in undergraduate and postgraduate degrees, develop the teaching of Aboriginal Studies, conduct research
in the field of Aboriginal education, and establish working ties with schools and communities.

The Koori Centre works in close collaboration with Yooroang Garang: School of Indigenous Health Studies in the Faculty of Health Sciences at the University's Cumberland Campus. Yooroang Garang provides advice, assistance and academic support for Indigenous students in the faculty, as well as preparatory undergraduate and postgraduate courses.

Koori Centre
Ground Floor, Old Teachers College A22
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2046 (general enquiries)
Toll Free: 1800 622 742
Community Liaison Officer: +61 2 9351 7003
Fax: +61 2 9351 7003
Email: koori@koori.usyd.edu.au
Web: www.koori.usyd.edu.au

Yooroang Garang
T Block, Level 4, Cumberland Campus C42
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 9393
Toll Free: 1800 000 418
Fax: +61 2 9351 9400
Email: yginfo@fhs.usyd.edu.au
Web: www.yg.fhs.usyd.edu.au

Learning Centre
The Learning Centre helps students develop the generic learning and communication skills that are necessary for university study and beyond. The centre is committed to helping students achieve their academic potential throughout their undergraduate and postgraduate studies. The centre's program includes a wide range of workshops on study skills, academic reading and writing, oral communication skills and postgraduate writing and research skills. Other services include an individual learning program, a special program for international students, faculty-based workshops, computer-based learning resources, publications of learning resources and library facilities. For details of programs, activities and online resources provided by the centre see the website via your MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

Camperdown and Darlington campuses
Level 7, Education Building A3 5
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3853
Fax: +61 2 9351 4865
Email: lc@stuserv.usyd.edu.au
Web: www.usyd.edu.au/lc

Cumberland Campus
Ground Floor, A Block, Cumberland Campus C42
The University of Sydney
East Street
Lidcombe
NSW 2141 Australia
Phone: +61 2 9351 9638
Fax: +61 2 9351 9635
Email: LC_Cumberland@fhs.usyd.edu.au
Web: www.usyd.edu.au/lc

Library
The University of Sydney Library, the largest academic library in the Southern Hemisphere, is a network of 18 libraries located on nine campuses. The Library website (http://www.library.usyd.edu.au) provides access to services and resources, anywhere at anytime. The locations, opening hours and subject specialities of the libraries are listed on the website.

Over five million items are available via the Library catalogue, including more than 52,000 electronic journals and 270,000 electronic books. Past exam papers are also available online. Enrolled students are entitled to borrow from any of the University Libraries. More information is available at www.library.usyd.edu.au/borrowing.

Reading list items are available via the reserve service. Increasingly, reading list material is becoming available in electronic form. For details see the reserve service website (http://www.library.usyd.edu.au/screens/reserve.html).

Library staff are always available to support students in their studies. "Ask a Librarian" in person, by email, or by using an online chat service (http://www.library.usyd.edu.au/contacts/index.html).

A specialist librarian is available for all discipline areas and will provide training in finding high quality information. Courses cover a range of skills including research methodology, database searching, effective use of the Internet and the use of reference management software. See the subject contact page (http://www.library.usyd.edu.au/contacts/subjectcontacts.html).

Library facilities include individual and group study spaces, computers, printers, multimedia equipment, photocopiers and adaptive technologies. Check the "Libraries" link on the home page (http://www.library.usyd.edu.au) to find out about services and facilities in specific libraries.

The Client Service Charter describes the Library’s commitment to supporting students’ learning, including those with special needs. See the Client Service Charter online (http://www.library.usyd.edu.au/about/policies/clientservice.html).

Your comments and suggestions are always welcome.

University of Sydney Library F03
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2993 (general enquiries)
Fax: +61 2 9351 7278 (renewals)
Email: loanenq@library.usyd.edu.au (loan enquiries), udd@library.usyd.edu.au (document delivery enquiries)
Web: www.library.usyd.edu.au

Mathematics Learning Centre
The Mathematics Learning Centre assists undergraduate students to develop the mathematical knowledge, skills and confidence that are needed for studying first level mathematics or statistics units at university. The centre runs bridging courses in mathematics at the beginning of the academic year (fees apply). The centre also provides ongoing support to eligible students during the year through individual assistance and small group tutorials. For details of activities and online resources provided by the centre see the website via your MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

Level 4, Carslaw Building F07
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4061
Fax: +61 2 9351 5797
Email: mlc@stuserv.usyd.edu.au
Web: www.usyd.edu.au/mlc

Multimedia and Educational Technologies in Arts (META) Resource Centre (Languages and E-Learning)
The centre provides access to lectures, class work and interactive self-paced learning materials for students of languages other than English (LOTE) and English as a second language (ESL). The library
holds materials in over 90 LOTE languages. The self study room provides interactive computer assisted learning and access to live multilingual satellite television broadcasts. Computer access labs provide Internet, email and word processing access. The centre also provides teaching rooms with state-of-the-art multimedia equipment, language laboratories and video conferencing facilities for Faculty of Arts courses.

Level 2, Brennan Building (opposite Manning House)
The University of Sydney
NSW 2006 Australia

Phone: For language enquiries +61 2 9351 2371, for all other enquiries +61 2 9351 6781
Fax: +61 2 9351 3626
Email: For language related enquiries language.enquiries@arts.usyd.edu.au, for all other enquiries METAResource-Centre@arts.usyd.edu.au
Web: www.arts.usyd.edu.au/centres/meta

MyUni Student Portal
Launched in July 2004, the MyUni student portal (http://myuni.usyd.edu.au) is the starting point and "one-stop" environment for students to access all their web-based University information and services. MyUni automatically tailors what a student sees based on their login-in and offers students the option of further personalising content. Most importantly, MyUni allows students to complete tasks online that would previously have required attendance in person. The following are examples of MyUni services and information:

- support services for students in health, counselling, child care, accommodation, employment and wellbeing;
- student administration systems for obtaining exam results, enrolment and units of study and links to courses and units of study information;
- links to the University’s e-learning systems;
- library services;
- important messages and student alerts;
- information technology and support services;
- information for international students; and
- campus maps, with descriptions of cultural, sporting and campus facilities.

Part-time, full-time

Undergraduate Students
Undergraduate students are usually considered full-time if they have a student load of at least 0.375 each semester. Anything under this amount is considered a part-time study load. Note that some faculties have minimum study load requirements for satisfactory progress.

Postgraduate Students (Coursework)
For postgraduate coursework students part-time or full-time status is determined by credit-point load. Enrolment in units of study which total at least 18 credit points in a semester is classed as full-time. Anything under this amount is a part-time study load. Please note that classes for some coursework programs are held in the evenings (usually 6-9pm).

Postgraduate Students (Research)
Full-time candidates for research degrees do not keep to the normal semester schedule, instead they work continuously throughout the year with a period of four weeks recreation leave. There is no strict definition of what constitutes full-time candidature but if you have employment or other commitments that would prevent you from devoting at least the equivalent of a 35-hour working week to your candidature (including attendance at the University for lectures, seminars, practical work and consultation with your supervisor) you should enrol as a part-time candidate. If in doubt you should consult your faculty or supervisor.

International Students
Student visas regulations require international students to undertake full-time study. International students on visas other than student visas may be permitted to study part-time.

Privacy
The University is subject to the NSW Privacy and Personal Information Protection Act 1998 and the NSW Health Records and Information Privacy Act 2002. Central to both acts are the sets of information protection principles (IPPs) and health privacy principles which regulate the collection, management, use and disclosure of personal and health information. In compliance with the Privacy and Personal Information Protection Act, the University developed a Privacy Management Plan which includes the University Privacy Policy. The Privacy Management Plan sets out the IPPs and how they apply to functions and activities carried out by the University. Both the plan and the University Privacy Policy were endorsed by the Vice-Chancellor on 28 June 2000.

Further information and a copy of the plan may be found at www.usyd.edu.au/arms/privacy.

Any questions regarding the Freedom of Information Act, the Privacy and Personal Information Protection Act, the Health Records and Information Privacy Act or the Privacy Management Plan should be directed to:

Tim Robinson: +61 2 9351 4263, or Anne Picot: +61 2 9351 7262
Email: foi@mail.usyd.edu.au

Scholarships for undergraduates
Scholarships Unit
Room 147, Ground Floor, Mackie Building KOI
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 2717
Fax: +61 2 9351 5134
Email: scholarships@careers.usyd.edu.au
Web: www.usyd.edu.au/scholarships

Student Centre
Ground Floor, Carslaw Building F07
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 3023 (general enquiries)
Academic records: +61 2 9351 4109
Discontinuation of enrolment: +61 2 9351 3023
Handbooks: +61 2 9351 5057
Prizes: +61 2 9351 5060
Fax: +61 2 9351 5081, +61 2 9351 5350 (academic records)
Web: www.usyd.edu.au/stuserv

Student Identity Cards
The student identity card functions as a library borrowing card, a transport concession card (when suitably endorsed) and a general identity card. The card must be carried at all times on the grounds of the University and must be shown on demand. Students are required to provide a passport-sized colour photograph of their head and shoulders for lamination on to this card. Free lamination is provided at a range of sites throughout the University during the January/February enrolment/pre-enrolment period. Cards that are not laminated, or do not include a photograph, will be rejected. New identity cards are required for each year of a student’s enrolment.

Student Services
The University provides personal, welfare, administrative and academic support services to facilitate your success at University. Many factors can impact on your wellbeing while studying at university and student services can assist you in managing and handling these more effectively. For details of services and online resources provided see the Student Services website (http://www.usyd.edu.au/stuserv).
The Sydney Summer School

Most faculties at the University offer units of study from undergraduate degree programs during summer. There are also some units of study available for postgraduate coursework programs from some faculties. As the University uses its entire quota of Commonwealth supported places in first and second semester, these units are full fee-paying for both local and international students and enrolment is entirely voluntary. However, Summer School units enable students to accelerate their degree progress, make up for a failed unit or fit in a unit which otherwise would not suit their timetables. New students may also gain a head start by completing subjects before they commence their degrees. Units start at various times from late November and run for up to six weeks (followed by an examination week). Notice of the units available is on the Summer School website (http://www.summer.usyd.edu.au) and is usually circulated to students with their results notices. A smaller Winter School is also run from the Summer School office. It commences on 3 July and runs for up to three weeks (followed by an examination week). It offers mainly postgraduate and a few undergraduate units of study. Information can be found on the Summer School website (http://www.summer.usyd.edu.au).

Timetabling Unit

The Timetabling Unit in the Student Centre is responsible for producing students’ class and tutorial timetables. Semester One timetables are available from the Wednesday of O Week through the MyUni website (http://myuni.usyd.edu.au).

The Faculty of Health Sciences, The Sydney College of the Arts, The Sydney Conservatorium of Music and the Faculty of Veterinary Science produce their own timetables for all teaching that they deliver. These timetables are available from the faculties.

University Health Service

The University Health Service provides full general practitioner services and emergency medical care to all members of the University community. Medical centres on the Camperdown and Darlington Campuses offer general practitioners, physiotherapy and some specialist services.

Email: director@unihealth.usyd.edu.au
Web: www.unihealth.usyd.edu.au

University Health Service (Wentworth)
Level 3, Wentworth Building G01
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 3484
Fax:+61 2 93514110

University Health Service (Holme)
Science Rd entry, Holme Building A09
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 4095
Fax:+61 2 9351 4338

See also the Glossary for administrative information relating to particular terms.
Student organisations

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "http://www.usyd.edu.au/handbooks/".

Students\(^1\) Representative Council
The Students' Representative Council (SRC) is the organisation which represents undergraduates both within the University and in the wider community. All students enrolling in an undergraduate course automatically become members of the SRC.

Level 1, Wentworth Building G01
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9660 5222 (editors, *Honi Soit*/Legal Aid, Student Welfare and Centrelink advice, interest free loans)
Second-hand Bookshop: +61 2 9660 4756
Mallet Street: +61 2 9351 0891
Conservatorium: +61 2 9351 1291
Fax: +61 2 9660 4260
Email: info@src.usyd.edu.au
Web: www.src.usyd.edu.au

Sydney University Sport
Sydney University Sport provides opportunities for participation in a range of sporting and recreational activities along with first class facilities.

University Sports and Aquatic Centre G09
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 4960
Fax:+61 2 9351 4962
Email: admin@susport.usyd.edu.au
Web: www.susport.com

University of Sydney Union
The University of Sydney Union is the main provider of catering facilities, retail services, welfare programs and social and cultural events for the University community on the Camperdown and Darlington campuses and at many of the University's affiliated campuses.

University of Sydney Union
Level 1, Manning House A23
The University of Sydney
NSW 2006 Australia

Phone: 1800 013 201 (switchboard)
Fax: +61 2 9563 6109
Email: info@usu.usyd.edu.au
Web: www.usydunion.com

Sydney University Postgraduate Representative Association (SUPRA)
SUPRA is an organisation that provides services to and represents the interests of postgraduate students. All postgraduate students at the University of Sydney are members of SUPRA.

Raglan Street Building G10
University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 3715
Freecall: 1800 249 950
Fax:+61 2 9351 6400
Email: supra@mail.usyd.edu.au
Web: www.supra.usyd.edu.au
# Abbreviations

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [http://www.usyd.edu.au/handbooks/](http://www.usyd.edu.au/handbooks/).

For a glossary of terms, describing the terminology in use at the University of Sydney, please see the glossary section.

Listed below are the more commonly used acronyms that appear in University documents and publications.

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<th>A</th>
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<tbody>
<tr>
<td>AARNet</td>
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<td>Australian Academic Research Network</td>
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**Abbreviations**

| H | Higher Education Officer (HEO)  
Higher Education Provider (HEP)  
Higher Education Research Data Collection (HERDC)  
Higher Education Support Act (HESA)  
Head of Department (HOD) |
|---|---|
| I | Institutional Assessment Framework (IAF)  
(This is a new name for what was previously the DEST Profile process.)  
Institutional Assessment Framework (IAF)  
Institutional Grants Scheme (IGS)  
International Office (I0)  
Intellectual Property (IP)  
International Postgraduate Research Scholarships (IPRS)  
International Researcher Exchange Scheme (IREX)  
Indigenous Support Funding Program (ISFP)  
Innovation Summit Implementation Group (ISIG)  
Institute of Advanced Studies (IAS)  
Information and Communication Technology (ICT)  
Information and Communication Technology Resources (ICTR)  
International English Language Testing Scheme (IELTS)  
Institutional Grants Scheme (DEST)  
Institutional Grants Scheme (DEST)  
Institutional Grants Scheme (DEST)  
Information Technology Services (ITS) |
| J | Joint Academic Scholarships Online Network (JASON)  
Language Background Other Than English (LBOTE)  
Level of Background Other Than English (LBO)  
Language Background Other Than English (LBOT) |
| M | Master of Business Administration (MBA)  
Management Information Steering Group (MISG)  
Major National Research Facilities Scheme (MNRF)  
Memorandum of Understanding (MOU)  
Major Projects Group (MPG)  
Medical Rural Bonded Scholarship Scheme (MRB) |
| N | National Bridging Courses for Overseas Trained Program (NBCOTP)  
National Competitive Grant (NCG)  
Non-English-Speaking Background (NESB)  
National Health and Medical Research Council (NHMRC)  
National Office for the Information Economy (NOIE)  
National Office for Overseas Skill Recognition (NOOSR)  
National Office for Overseas Skill Recognition (NOOSR)  
National Office for Overseas Skill Recognition (NOOSR)  
New South Wales Vice-Chancellors' Conference (NSWVCC)  
National Tertiary Education Industry Union (NTEU) |
| O | Organisation for Economic Cooperation and Development (OECD)  
Open Learning Australia (OLA)  
Open Learning Deferred Payment Scheme (OLDPS)  
Overseas Postgraduate Research Scholarships (OPRS) |
| P | Postgraduate Education Loans Scheme (PELS)  
Planning Support Office (PSO)  
Pro-Vice-Chancellor (PVC) |
| Q | Quality Assurance (QA)  
Quality Advisory and Coordination Group (QACG) |
| R | Research and Development (R&D)  
Restructuring and Rationalisation Program (R&R)  
Research Education Program (REP)  
Relative Funding Model (RFM)  
Research Infrastructure Block Grant (DEST) (RIBG)  
Research Infrastructure Equipment and Facilities Scheme (RIEF)  
Restructuring Initiatives Support Fund (RISF)  
Risk Management Office (RMO)  
Record of Achievement (ROA)  
Research Quantum (RQ)  
Recognition Quality Unit (Higher Education Division - DEST) (RQU)  
Research and Research Training Management Reports (RRTMR)  
Recent School Leaver (RSL)  
Research Training Scheme (DEST) (RTS) |
| S | Sydney College of the Arts (SCA)  
Sydney Course Experience Questionnaire (SCEQ)  
Sydney Conservatorium of Music (SCM)  
Science Capability Review (SCR)  
Strategic Development Fund (SDF)  
Student/Staff Ratio (SSR)  
Study Abroad Exchange (database) (STABEX)  
Sydney University Postgraduate Students' Representative Association (SUPRA)  
Sydney University Sport (SUSport)  
Technical and Further Education (TAFE)  
Test of English as a foreign language (TOEFL)  
Teaching Performance Indicator (TPI) |
| T | Technical and Further Education (TAFE)  
Test of English as a foreign language (TOEFL)  
Teaching Performance Indicator (TPI) |
| U | Universities Admissions Centre (UAC)  
University Mobility in Asia and the Pacific (UMAP)  
United Nations Educational, Scientific and Cultural Organisation (UNESCO)  
University Postgraduate Awards (UPA) |
| V | Vice-Chancellor's Advisory Committee (VCAC)  
Vocational Education and Training (VET) |
| W | Weighted Average Mark (WAM)  
Workplace Reform Program (WRP)  
World Trade Organization (WTO) |
| Y | Year of First Enrolment (YFE) |
Glossary

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [http://www.usyd.edu.au/handbooks/](http://www.usyd.edu.au/handbooks/).

For a table of the more commonly used acronyms and abbreviations that appear in University documents and publications please see the abbreviations section.

This glossary describes terminology in use at the University of Sydney.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

A

Annual average mark (AAM)
The average mark over all units of study attempted in a given academic year (equivalent to the calendar year).
The formula for this calculation is:

$$\text{AAM} = \frac{\sum (\text{mark} \times \text{credit point value})}{\sum \text{credit point value}}$$

(sums over all units of study completed in the selected period)

Where the mark is the actual mark obtained by the student for the unit of study, or in the case of a failing grade with no mark - 0. Pass/Fail assessed subjects and credit transfer subjects (from another institution) are excluded from these calculations; however, the marks from all attempts at a unit of study are included.

Academic Board
The senior academic body within the University. In conjunction with faculties, the Academic Board has responsibility for approving, or recommending to Senate for approval, new or amended courses and units of study and policy relating to the admission and candidature of students. (For further information, see the University Calendar.)

Academic cycle
The program of teaching sessions offered over a year. Currently the cycle runs from the enrolment period for Semester One through to the completion of the processing of results at the end of Semester Two. (See also Stage.)

Academic dishonesty
Academic dishonesty occurs when a student presents another person's ideas, findings or written work as his or her own by copying or reproducing them without due acknowledgement of the source and with intent to deceive the examiner. Academic dishonesty also covers recycling, fabrication of data, engaging another person to complete an assessment or cheating in exams. (See also Plagiarism.)

Academic record
The complete academic history of a student at the University. It includes, among other things: personal details; all units of study and courses taken; assessment results (marks and grades); awards and prizes obtained; infringements of progression rules; approvals for variation in course requirements and course leave; thesis and supervision details.

Access to a student's academic record is restricted to authorised University staff and is not released to a third party without the written authorisation of the student. (See also Academic transcript.)

Academic transcript
A printed statement setting out a student's academic record at the University. There are two forms of academic transcript: external and internal. (See also External transcript, Internal transcript.)

Academic year
The current calendar year in which a student is enrolled. (See also Academic cycle, Stage.)

Admission
Governed by the University's admission policy, this is the process for identifying applicants eligible to receive an initial offer of enrolment in a course at the University. Admission to most courses is based on performance in the HSC, with applicants ranked on the basis of their UAI. Other criteria such as a portfolio, interview, audition, or results in standard tests may also be taken into account for certain courses.

Admission basis
The main criteria used by a faculty in assessing an application for admission to a course. The criteria used include, among other things, previous secondary, TAFE or tertiary studies; work experience; special admission; and the Universities Admission Index (UAI).

Admission (Deferment)
An applicant who receives an offer of admission to a course may apply to defer enrolment in that course for one semester or one academic cycle.

Admission mode
A classification based on how a student was admitted to a course, for example "UAC" or "direct".

Admission period
The period during which applications for admission to courses are considered.

Admission year
The year the student expects to begin the course (see also Commencement date.)

Advanced diplomas
(See Award course.)

Advanced standing
(See Credit.)

Advisor
A member of academic staff appointed in an advisory role for some postgraduate coursework students. (See also Associate supervisor, Instrumental supervisor/teacher, Research supervisor, Supervision.)

Aegrotat
In exceptional circumstances involving serious illness or death of a student prior to completion of their course, the award of aegrotat and posthumous degrees and diplomas may be conferred.
Alumni sidnieensis
A searchable database of graduates of the University from 1857 to 30 years prior to the current year.

Annual average mark (AAM)
The average mark over all units of study attempted in a given academic year (equivalent to the calendar year).

The formula for this calculation is:
\[(\text{mark} \times \text{credit pt value}) / (\text{credit pt value})\]

Where the mark is the actual mark obtained by the student for the unit of study, or in the case of a failing grade with no mark -- 0. Pass/Fail assessed subjects and credit transfer subjects (from another institution) are excluded from these calculations; however, the marks from all attempts at a unit of study are included.

Annual progress report
A form which is used to monitor a research student's progress each year. The form provides for comments by the student, the supervisor, the head of the department and the dean (or their nominee). The completed form is attached to the student's official file.

Appeals
Students may lodge an appeal against academic or disciplinary decisions. An academic appeal (e.g. against exclusion) is managed by the Student Centre - Exclusions Office while it is under consideration and a record of the outcome of the appeal will be retained.

Assessment
The process of measuring the performance of students in units of study and courses. Performance may be assessed by examinations, essays, laboratory projects, assignments, theses, treatises or dissertations. (See also Result processing, Result processing schedule.)

Formative assessment
Formative assessment is used principally to provide students with feedback on their progress in learning. It reinforces successful learning, and is an opportunity for students to expose the limitations in their knowledge and understanding.

Summative assessment
Summative assessment is used to certify competence, or to arrange students in a rank order of merit. It certifies the attainment of a standard, and is used as the basis for progression to the next part of a program, or to graduation.

Associate supervisor
A person who is appointed in addition to the supervisor of a research student, who can provide the day-to-day contact with the candidate or provide particular expertise or additional experience in supervision. (See also Advisor, Instrumental supervisor/teacher, Research supervisor, Supervision.)

Assumed knowledge
For some units of study, a student is assumed to have passed a relevant subject at the HSC and this is called assumed knowledge. While students are generally advised against taking a unit of study for which they do not have the assumed knowledge, they are not prevented from enrolling in the unit of study. (See also Prerequisite.)

Attendance pattern
Attendance pattern is classified as full-time, part-time or external, this is dependant on the student's mode of attendance and the student load.

Attendance mode
A Department of Education, Science and Technology (DEST) classification defining the manner in which a student is undertaking a course, i.e. internal, external, mixed or offshore.

Australian Graduate School of Management (AGSM)
A joint venture with the University of New South Wales. The AGSM is derived from the Graduate School of Business at the University of Sydney and the then AGSM at the University of New South Wales.

Australian Qualifications Framework (AQF)
The framework for recognition and endorsement of qualifications established by the Ministerial Council on Education, Employment, Training and Youth Affairs (MCETYA).

AUSTUDY
Austudy provides financial help to students who are aged 25 years or more who meet the required criteria, and are undertaking an approved full-time course at an approved institution. (See also Youth Allowance.)

Automated Results Transfer System (ARTS)
This system was developed by the Australasian Conference of Tertiary Admissions Centres (ACTAC) to allow the electronic academic record of a student to be accessed, via an admission centre, by tertiary institutions.

Award course
(See Course.)

B
Bachelor's degree
The highest undergraduate award offered at the University. A bachelor's degree course normally requires three or four years of full-time study or the part-time equivalent. (See also Award course.)

Barrier
An instruction placed on a student's record that prevents the student from re-enrolling or graduating. (See also Deadlines (fees), Suppression of results.)

Board of Studies
An academic body which supervises a course or courses, and which is similar to a faculty except that it is headed by a chair rather than a dean and does not supervise PhD candidates.

Bursaries
Financial award made to a student, based primarily on need. (See also Scholarships.)

C
Cadigal program
A program, named in recognition of the Aboriginal people of the land on which the University is located, designed to increase the successful participation of Aboriginal and Torres Strait Islander people in degree courses in all faculties at the University of Sydney.

Campus
The grounds on which the University is situated. There are 11 campuses of the University of Sydney:

- Burren Street (Institute for International Health, Institute of Transport Studies)
- Camperdown and Darlington (formerly known as Main Campus)
- Camden (Agriculture and Veterinary Science)
- Conservatorium (Sydney Conservatorium of Music)
- Cumberland (Health Sciences)
- Mallett Street (Nursing)
- Orange (Faculty of Rural Management and Centre for Regional Education)
- Rozelle (Sydney College of the Arts)
- St James (Law)
- Surry Hills (Dentistry)

Cancellation
Where enrolment is cancelled for non-payment of fees.

Candidature
Candidature commences when a student is admitted to a course of study leading to the award of a degree, diploma or certificate. There are maximum periods and in some cases minimum periods of can-
didutate depending on the award course and whether the candidate is a full-time or part-time student.

Census date
The date at which a student's enrolment, load and HECS liability are finalised before this information is reported to DEST. (See also HECS.)

Ceremony
(See Graduation ceremony.)

Chancellor
The non-executive head of the University. An honorary position, the Chancellor presides over meetings of the University's governing body, the Senate, and important ceremonial occasions such as graduations.

Clinical experience
Students undertake clinical placements in a professional environment as part of their course requirements. Many require University approved supervision. In order to undertake clinical placements a student may be required to fulfil additional requirements.

College of Health Sciences
Consists of the Faculties of Dentistry; Health Sciences; Medicine; Nursing; and Pharmacy.

College of Humanities and Social Sciences (CHASS)
Consists of the Faculties of Arts; Economics and Business; Education; Law; the Sydney College of the Arts; and the Sydney Conservatorium of Music.

College of Sciences and Technology (CST)
Consists of the Faculties of Agriculture, Food and Natural Resources; Architecture; Engineering; Rural Management; Science; and Veterinary Science.

Combined course
A course which leads to two awards. For example the Arts/Law course leads to the separate awards of Bachelor of Arts and Bachelor of Laws.

Combined degree
A combined degree is a single program with a single set of course resolutions leading to the award of two degrees (unless otherwise specified in the resolutions). (See also Combined course.)

Commencement date
The date a student commences candidature.

Compulsory subscriptions
Each enrolled student is liable to pay annual (or semester) subscriptions, as determined by the Senate, to the student organisations at the University. There are different organisations for undergraduate and postgraduate students.

The student organisations are specific to different campuses. The organisations at campuses other than Camperdown and Darling are: the Conservatorium Student Association, the Cumberland Student Guild, the Orange Agricultural College Student Association and the Student Association of Sydney College of the Arts. (See also Compulsory subscription exemption, Joining fee, Life membership.)

Compulsory subscription exemption
Students of a certain age or those with disabilities or medical conditions may be exempt from the subscription to the sports body.

Conscientious objectors to the payment of subscriptions to unions of any kind may apply to the Registrar for exemption. The Registrar may permit such a student to make the payment to the Jean Foley Bursary Fund instead. (See also Compulsory subscriptions.)

Confirmation of enrolment form (COE)
This form is issued to each student after enrolment, showing the course and the units of study in which the student is enrolled, together with the credit point value of the units of study and the HECS weights. Until all fees are paid, it is issued provisionally.

A new confirmation of enrolment form is produced every time a student's enrolment is varied.

Conjoint ventures
Two or more institutions cooperate to provide a unit or course of study to postgraduate coursework students. Arrangements exist between individual departments at the University of Sydney and individual departments at the University of New South Wales (UNSW) and the University of Technology Sydney (UTS), whereby students enrolled for a degree at one institution complete one or more units of study at the other institution to count towards the award program at their "home" institution.

Continuing professional education
A process which provides a number of programs of continuing education courses for professionals as they move through their career. These programs are presently administered by the Centre for Continuing Education and a number of departments and foundations across the University. This process supports the whole of life learning concept and involves the maintenance of a long term relationship between the student and the University.

Convocation
The body comprising all graduates of the University.

Core unit of study
A unit of study that is compulsory for a particular course or subject area. (See also Unit of study.)

Corequisite
A unit of study which must be taken in the same semester or year as a given unit of study (unless it has already been completed). These are determined by the faculty or board of studies concerned, published in the faculty handbook and shown in FlexSIS. (See also Prerequisite, Waiver.)

Cotutelle Scheme
Agreement between the University and any overseas university for joint supervision and examination of a PhD student as part of an ongoing cooperative research collaboration. If successful, the student receives a doctorate from both universities with each testamur acknowledging the circumstances under which the award was made.

Course
An undertaking of study at the University of Sydney

Award course
A formal course of study that will see attainment of a recognised award. Award courses are approved by Senate, on the recommendation of the Academic Board. The University broadly classifies courses as undergraduate, postgraduate coursework or postgraduate research. (See also Bachelor's degree, Course rules, Diploma, Doctorate, Major, Master's degree, Minor, PhD, Stream.)

Non-award course
Studies undertaken by students who are not seeking an award from the University. (See also Cross-institutional enrolment.)

Coursework
An award course not designated as a research award course. While the program of study in a coursework award course may include a component of original, supervised, other forms of instruction and learning normally will be dominant.

Research
A course in which at least 66 per cent of the overall course requirements involve students in undertaking supervised research, leading to the production of a thesis or other piece of written or creative work, over a prescribed period of time.
Course alias
A unique five character alpha-numeric code which identifies a University course.

Course code
(See Course alias.)

Course enrolment status
A student's enrolment status in a course is either "enrolled" or "not enrolled". "Not enrolled" reasons include: cancelled; suspended; under examination; or terminated. (See also Cancellation, Candidature, Course leave, Enrolment, Enrolment variation, Terminated, Under examination.)

Course leave
Students are permitted to apply for a period away from their course without losing their place. Course leave is formally approved by the supervising faculty for a minimum of one semester. Students on leave are regarded as having an active candidature, but they are not entitled to a student card. At undergraduate level, leave is not counted towards the total length of the course. Students who are absent from study without approved leave may be discontinued and may be required to formally reapply for admission. (See also Progression.)

Course rules
Rules which govern the allowable enrolment of a student in a course. Course rules may be expressed in terms of types of units of study taken, length of study, and credit points accumulated, e.g. a candidate may not enrol in units of study having a total value of more than 32 credit points per semester. Course rules also govern the requirements for the award of the course, e.g. a candidate must have completed a minimum of 144 credit points. (See also Award course, Corequisite, Prerequisite.)

Course suspension
See Course leave.

Course transfer
A transfer occurs when a student changes from one course in the University to another course in the University without the requirement for an application and selection process (e.g. from a PhD to a master's program in the same faculty).

Credit
The recognition of previous studies successfully completed at this University, or another university or tertiary institution recognised by the University of Sydney, as contributing to the requirements of the course to which the applicant requesting such recognition has been admitted. Credit may be granted as specified credit or non-specified credit.

Specified credit
The recognition of previously completed studies as directly equivalent to units of study.

Non-specified credit
A "block credit" for a specified number of credit points at a particular level. These credit points may be in a particular subject area but are not linked to a specific unit of study.

Credit points
The value of the contribution each unit of study provides towards meeting course completion requirements. Each unit of study will have a credit point value assigned to it. The total number of credit points required for completion of award courses will be specified in the Senate Resolutions relevant to the award course.

Cross-institutional enrolment
An enrolment in units of study at one university to count towards an award course at another university. Cross-institutional enrolments incur a HECS liability or tuition fee charge at the institution at which the unit of study is being undertaken. Students pay compulsory subscriptions to one university only (usually their home university, i.e. the university which will award their degree). (See also Non-award course.)

Course enrolment status
A student’s enrolment status in a course is either "enrolled" or "not enrolled". "Not enrolled" reasons include: cancelled; suspended; under examination or terminated. (See also Cancellation, Candidature, Course leave, Enrolment, Enrolment variation, Terminated, Under examination.)

D

The Data Audit Committee's role is to oversee the integrity and accuracy of the course and unit of study data as strategic University data. It also advises the Academic Board on suggested policy changes related to course and unit of study data. A sub-committee of the VCAC Enrolment Working Party, it is chaired by the Registrar, with membership including the deans, the Student Centre, FlexSIS and the Planning Support Office.

Deadlines (Enrolment variations)
(See Enrolment variation.)

Deadlines (Fees)
The University has deadlines for the payment of fees (e.g. HECS, compulsory subscriptions, course fees). Students who do not pay fees by these deadlines may have their enrolment cancelled or they may have a barrier placed on the release of their record. (See also Barrier, Cancellation.)

Dean
The head of a faculty, or the principal or director of a college (such as the Sydney Conservatorium of Music or the Sydney College of Arts).

Dean’s certificate
A statement from the Dean certifying that all requirements, including fieldwork and practical work, have been met and that the student is eligible to graduate. Not all faculties use Dean's Certificates. In faculties that do, qualified students have "Dean's Certificate" noted on their academic record.

Deferral (Deferral)
See Admission (deferment), Course leave.

Degree
See also Award course, Bachelor's degree.

Delivery mode
Indicates how students receive the instruction for a unit of study. The delivery mode must be recorded for each unit as distinct from the attendance mode of the student, i.e. an internal student may take one or more units by distance mode and an external student may attend campus for one or more units.

Distance education
Where subject matter is delivered in a more flexible manner, such as correspondence notes, and student may only attend campus if required. (See also Extended semester, Distance education, International - off shore.)

Intensive on campus
Core content is delivered with support learning in an intensive (one or more days) format on campus. Participation is usually compulsory. Previously this may have been called residential, block mode, or weekend workshop.

On campus (normal)
Attendance of scheduled lectures, tutorials etc at a campus of the University.

Department
(See School.)
Department of Education, Science and Training (DEST)
The Commonwealth Government department responsible for higher education.

Differential HECS
(See Higher Education Contribution Scheme (HECS).)

Diploma
The award granted following successful completion of diploma course requirements. A diploma course usually requires less study than a degree course. (See also Award course.)

Direct admissions
For some courses, applications may be made directly to the University. Applications are received by faculties or the International Office, and considered by the relevant department or faculty body. Decisions are recorded and letters are forwarded to applicants advising them of the outcome. (See also Admission, UAC.)

Disability information
Students may inform the University of any temporary or permanent disability which affects their life as a student. Disability information is recorded but it is only available to particular authorised users because of its sensitive nature.

Disciplinary action
Undertaken as the result of academic or other misconduct, e.g. plagiarism, cheating, security infringement, criminal activity.

Discipline
A defined area of study, for example, chemistry, physics, economics.

Discipline group
A DEST code used to classify units of study in terms of the subject matter being taught or being researched.

Discontinuation (course)
(See Enrolment variation.)

Discontinuation (unit of study)
(See Enrolment variation.)

Dissertation
A written exposition of a topic which may include original argument substantiated by reference to acknowledged authorities. It is a required unit of study for some postgraduate award courses in the faculties of Architecture and Law.

Distance education
Where a student does not attend campus on a daily basis for a given course or unit of study. (See also Delivery mode, Extended semester.)

Doctorate
A high-level postgraduate award. A doctorate course normally involves research and coursework; the candidate submits a thesis that is an original contribution to the field of study. Entry to a doctorate course often requires completion of a Master's degree course. Note that the doctorate course is not available in all departments at the University. (See also Award course, PhD.)

Domestic Student
A student who is not an international student. See also Local student.

Double degree
A double degree is a program where students are permitted by participating faculties (and/or by specific resolutions within a single award) to transfer between courses in order to complete two awards.

Downgrade
Where a student enrolled in a PhD reverts to a master's by research, either on the recommendation of the University on the basis that the research they are undertaking is not at an appropriate level for a PhD; or at the student's own request, for personal or academic reasons.

E

Earliest date
(See Research candidature.)

Equivalent full-time student unit (EFTSU)
The equivalent full-time student unit (EFTSU) is a measure of student load based on the workload for a student undertaking a full year of study in a particular course. A student is then recorded as having generated one EFTSU. (See also Load, Stage.)

Equivalent full-time student load (EFTSL)
The equivalent full-time student load (EFTSL) for a year. It is a measure, in respect of a course of study, of the study load for a year of a student undertaking that course of study on a full-time basis. (effective 1 January 2005)

Embedded courses
Award courses in the Graduate Certificate, Graduate Diploma and Master's degree by coursework sequence which allow unit of study credit points to count in more than one of the awards, e.g. the Graduate Certificate in Information Technology, Graduate Diploma in Information Technology and Master of Information Technology.

Enrolment
A student enrols in a course by registering with the supervising faculty in the units of study to be taken in the upcoming year, semester or session.

Commencing
An enrolment is classified as commencing if a student has enrolled in a particular degree or diploma for the first time.

Continuing
Students already in a course at the University re-enrol each year or semester. Most continuing students are required to pre-enrol. (See also Pre-enrolment.)

Enrolment list
A list of all currently enrolled students in a particular unit of study. (See also Unit of study.)

Enrolment status
(See Course enrolment status.)

Enrolment Variation
Students may vary their enrolment at the beginning of each semester. Each faculty determines its deadlines for variations, but HECS liability depends on the HECS census date. (See also HECS.)

Examination
A set of questions or exercises evaluating on a given subject given by a department or faculty. (See Examination period, Assessment.)

Examination period
The time set each semester for the conduct of formal examinations.

Examiner (Coursework)
The person assessing either the written/oral examination, coursework assignments, presentations, etc of a student or group of students.

Exchange student
Either a student of the University of Sydney who is participating in a formally agreed program involving study at a overseas university or an overseas student who is studying here on the same basis. The International Office provides administrative support for some exchanges.

Exclusion
A faculty may ask a student whose academic progress is considered to be unsatisfactory to "show good cause" why the student should
be allowed to re-enrol. If the faculty deems the student's explanation unsatisfactory, or if the student does not provide an explanation, the student may be excluded either from a unit of study or from a course or faculty. An excluded student may apply to the faculty for permission to re-enrol. Normally, at least two years must have elapsed before such an application would be considered.

University policy relating to exclusion is set out in the University Calendar. (See also Progression, Senate appeals.)

**Exemption**
A decision made at a sub-unit of study level to allow a student to complete a unit of study without also completing all the prescribed components of coursework and/or assessment. (See also Credit, Waiver.)

**Expulsion**
The ultimate penalty of disciplinary action is to expel the student from the University. The effect of expulsion is:

- the student is not allowed to be admitted or to re-enrol in any course at the University;
- the student does not receive their results;
- the student is not allowed to graduate; and
- the student does not receive a transcript or testamur.

**Extended semester**
A distance-learning student may be allowed more time to complete a module or program if circumstances beyond the student's control, e.g. drought, flood or illness, affect the student's ability to complete the module or program in the specified time. (See also Distance education.)

**External**
(See Attendance mode, Distance education.)

**External transcript**
A certified statement of a student's academic record printed on official University security paper. It includes the student's name, any credit granted, all courses the student was enrolled in and the final course result and all units of study attempted within each course together with the result. It also acknowledges grades the student has received. Marks can be included or omitted, as required. (See also Academic transcript, Internal transcript.)

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**Grade**
The outcome for a unit of study linked with a marked range. For example, a mark in the range 85-100 attracts the grade "high distinction" ("HD"). (See also Mark.)

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<thead>
<tr>
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<th>Description</th>
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<tbody>
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<td>HD</td>
<td>High distinction</td>
<td>A mark of 85-100.</td>
</tr>
<tr>
<td>D</td>
<td>Distinction</td>
<td>A mark of 75-84.</td>
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<tr>
<td>CR</td>
<td>Credit</td>
<td>A mark of 65-74.</td>
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<tr>
<td>P</td>
<td>Pass</td>
<td>A mark of 50-64.</td>
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<td>R</td>
<td>Satisfied requirements</td>
<td>This is used in pass/fail only outcomes.</td>
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**UCN**
Unit of study continuing

Used at the end of semester for units of study that have been approved to extend into a following semester. This result automatically flag that no final result is required until the end of the last semester of the unit of study.

**PCON**
Pass (concessional)

A mark of 46-49. Use of this grade is restricted to those courses that allow for a concessional pass of some kind to be awarded. A student may re-enrol in a unit of study for which the result was PCON. Each faculty will determine and state in its course regulations what proportion, if any, may count - e.g. "no more than one sixth of the total credit points for a course can be made up from PCON results".

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<td>Fail</td>
<td>A mark of 0-49. This grade may be used for students with marks of 46-49 in those faculties which do not use PCON.</td>
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<tr>
<td>AF</td>
<td>Absent fail</td>
<td>Includes non-submission of compulsory work (or non-attendance at compulsory labs, etc) as well as failure to attend an examination.</td>
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<td>W</td>
<td>Withdrawn</td>
<td>Not recorded on an external transcript. This is the result that obtains where a student applies to discontinue a unit of study by the HECS census date (i.e. within the first four weeks of enrolment).</td>
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<tr>
<td>DNF</td>
<td>Discontinued - not to count as failure</td>
<td>Recorded on external transcript. This result applies automatically where a student discontinues after the HECS census date but before the end of the seventh week of the semester (or before half of the unit of study has run, in the case of units of study which are not semester-length). A faculty may determine that the result of DNF is warranted after this date if the student has made out a special case based on illness or misadventure.</td>
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<tr>
<td>INC</td>
<td>Incomplete</td>
<td>This result is used when examiners have grounds (such as illness or misadventure) for seeking further information or for considering additional work from the student before confirming the final result. Except in special cases approved by the Academic Board, this result will be converted to a normal permanent passing or failing grade either: by the dean at the review of examination results conducted pursuant to section 2 (4) of the Academic Board policy &quot;Examinations and Assessment Procedures&quot;; or automatically to an AF grade by the third week of the immediately subsequent academic session. Deans are authorised to approve the extension of a MINC grade for individual students having a valid reason for their incomplete status.</td>
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**Flexible start date**
Full fee-paying distance students are not restricted to the same enrolment time frames as campus-based or HECS students.

**Flexible Student Information System (FlexSIS)**
The computer-based Flexible Student Information System at the University of Sydney. FlexSIS holds two years of courses and units of study being offered by the University and the complete academic records of all students enrolled at the University.

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**Glossary**

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Graduate
A person who holds an award from a recognised tertiary institution. (See also Graduand, Graduation.)

Graduate Certificate
(See Award course.)

Graduate Diploma
(See Award course.)

Graduation
The formal conferring of awards either at a ceremony or in absentia. (See also In absentia, Potential graduand.)

Graduation ceremony
A ceremony where the Chancellor confers awards upon graduands.

Group work
Means a formally established project to be conducted by a number of students in common, resulting in a single piece of assessment or a number of associated pieces of assessment. (See also Legitimate cooperation.)

H

Head of department (HOD)
The head of the academic unit which has responsibility for the relevant unit of study, or equivalent program leader.

Higher doctorates
See Award course.

HECS (Higher Education Contribution Scheme)
All students, unless they qualify for an exemption, are obliged to contribute towards the cost of their education under the Higher Education Contribution Scheme. These contributions are determined annually by the Commonwealth Government. This scheme will cease in its current form from 1 January, 2005.

Honorary degrees
A degree honoris causa (translated from the Latin as "for the purpose of honouring") is conferred on a person whom the University wishes to honour. Long-standing full-time members of the University’s academic staff who are not graduates of the University may be considered by Senate, upon their retirement, for admission ad eundem gradum, to an appropriate degree of the University.

Honours
Some degrees may be completed "with Honours”. This may involve either the completion of a separate Honours year or additional work in the later years of the course or meritorious achievement over all years of the course. Honours are awarded in a class (Class I, Class II - which may have two divisions or, Class III).

NSW Higher School Certificate (HSC)
The NSW Higher School Certificate (HSC), which is normally completed at the end of year 12 of secondary school. The UAI (Universities Admission Index) is a rank out of 100 that is computed from a student's performance in the HSC.

I

In absentia
Latin for "in the absence of”. Awards are conferred in absentia when graduands do not, or cannot, attend the graduation ceremony scheduled for them. Those who have graduated in absentia may later request that they be presented to the Chancellor at a graduation ceremony. (See also Graduation.)

Instrumental supervisor / teacher
All students at the Sydney Conservatorium of Music and BMus students on the Camperdown Campus have an instrumental teacher appointed. (See also Advisor, Associate supervisor, Research supervisor, Supervision.)

Internal mode
(See Attendance mode.)

Internal transcript
A record of a student's academic record for the University's own internal use. It includes the student's name, student identifier (SID), address, all courses in which the student was enrolled and the final course result, and all units of study attempted within each course together with the unit of study result. (See also Academic transcript, External transcript.)

International student
Any student who is not an Australian or New Zealand citizen or a permanent resident of Australia is an international student. An international student is required to hold a visa that allows study in Australia and may be liable for international tuition fees.

Fee-paying
A private International Student who is liable to pay tuition fees for their studies with the University.

Fee-paying - Outgoing exchange
An international fee-paying student undertaking short term study at a recognised overseas institution with which the University has a student exchange agreement. Exchange study counts towards the student’s University of Sydney award and students remain enrolled in their University of Sydney course during the period of exchange.

International - cross-institutional
An international fee paying student undertaking non-award study at the University on a cross-institutional basis. They are liable to pay fees for the study they undertake at the University, but there is no compliance reporting requirement, which rests with their "home" institution.

International — Sponsored
A private international student who is fully sponsored for his/her tuition; his/her sponsorship may also cover Overseas Health Cover and Compulsory Subscriptions.

Offshore studies
International offshore students undertake their program of study at one of the University’s offshore campuses and hence do not enter Australia; therefore they do not require a visa. The are distinct from international students who are on outbound exchange programs as they never enter Australia during their program of study.

Short course
An international fee-paying student undertaking a short course with the University of Sydney comprising such programs as international development programs, executive training or study visits. The study undertaken by these students is non-award and generally a student visa is not required.

Sponsored award
An international student sponsored by the Australian government, undertaking a program of study at the University. Currently Australian Development Scholarships holders, funded by AusAID, are the only students in this category. These students are fully sponsored for their tuition and other costs such as travel and health cover, and are paid a stipend.

Study Abroad
An international student who is undertaking short-term study at the University under the Study Abroad scheme. Study Abroad students must have completed at least one year of study towards a degree at a recognised institution in their home country and are continuing towards the degree of their home institution.

(See also Local student, Student type.)
Glossary

J

Joining fee
Students enrolling for the first time pay a joining fee in addition to the standard subscription for the University of Sydney Union or equivalent student organisation. (See also Compulsory subscription.)

L

Leave
See Course leave.

Legitimate cooperation
Any constructive educational and intellectual practice that aims to facilitate optimal learning outcomes through interaction between students. (See also Group work.)

Life membership
Under some circumstances (e.g. after five full-time years of enrolments and contributions) students may be granted life membership of various organisations. This means they are exempt from paying yearly fees. (See also Compulsory subscriptions.)

Load
The sum of the weights of all the units of study in which a student is enrolled. The weight is determined by the proportion of a full year’s work represented by the unit of study in the degree or diploma for which the student is a candidate. Student load is measured in terms of Equivalent full-time student units (EFTSU). (See also Equivalent full-time student units (EFTSU).)

Local Student
Either an Australian or New Zealand citizen or Australian permanent resident. New Zealand citizens are required to pay their Higher Education Contribution Scheme (HECS) fees upfront. (See also Domestic student, HECS, International student.)

M

Major
A field of study, chosen by a student, to represent their principal interest this would consist of specified units of study from later stages of the award course. Students select and transfer between majors by virtue of their selection of units of study. One or more majors may be awarded upon the graduand's assessment of study. (See also Award course, Major, Stream.)

Major timetable clash
The term used when a student attempts to enrol in units of study which have so much overlap in the teaching times that it has been decided that students must not enrol in the units simultaneously.

Mark
An integer (rounded if necessary) from 0 to 100 indicating a student’s performance in a unit of study. (See also Grade.)

Master’s degree
A postgraduate award. Master's degree courses may be offered by coursework, research only or a combination of coursework and research. Entry to the course often requires completion of an honours year at an undergraduate level. (See also Award course.)

Method of candidature
A course is either a research course or a coursework course and so the methods of candidature are "research" and "coursework". (See also Course - coursework, Course - research.)

Minor
Studies undertaken to support a Major. Requiring a smaller number of credit points than a major students select and transfer between minors (and majors) by virtue of their selection of units of study.

N

Non-award course
(See Course.)

Non-standard session
A teaching session other than the standard February and August sessions - e.g. Summer School, in which units of study are delivered and assessed in an intensive mode during January. (See also Semester, Session.)

O

Orientation Week
Orientation or "O Week", takes place in the week before lectures begin in Semester One. During O Week, students can join various clubs, societies and organisations, register for courses with departments and take part in activities provided by the University of Sydney Union.

P

Part-time student
(See Attendance mode, Attendance pattern, Equivalent full-time student units (EFTSU).)

Permanent home address
The address used for all official University correspondence with a student, both inside and outside of semester time (e.g. during semester breaks), unless the student provides a different overridden by semester address for use during the semester. (See also Semester address.)

PhD
The Doctor of Philosophy (PhD) and other doctorate awards are the highest awards available at the University. A PhD course is normally purely research-based; the candidate submits a thesis that is an original contribution to the field of study. (See also Award course, Doctorate.)

Plagiarism
Presenting another person's ideas, findings or work as one's own by copying or reproducing them without the acknowledgement of the source. (See also Academic dishonesty.)

Postgraduate
A term used to describe a course leading to an award such as graduate diploma, a Master's degree or PhD which usually requires prior completion of a relevant undergraduate degree (or diploma) course. A "postgraduate" is a student enrolled in such a course. (See also Course - coursework, Course - research.)

Postgraduate Education Loans Scheme (PELS)
An interest-free loans facility for eligible students who are enrolled in fee-paying, postgraduate non-research courses. It is similar to the deferred payment arrangements available under the Higher Education Contribution Scheme (HECS). This scheme will cease in this manner from 1 January, 2005, and will be replaced by the FEE-HELP scheme.

Glossary

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Method of candidature
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Minor
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One or more minors may be awarded upon the graduand’s assessment of study. (See also Award course, Major, Stream.)

Mixed mode
(See Attendance mode.)

Mutually exclusive units of study
(See Prohibited combinations of units of study.)

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(See Course.)

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Potential graduand
A student who has been identified as being eligible to graduate on the satisfactory completion of their current studies. (See also Graduand, Graduation.)

Pre-enrolment
Pre-enrolment - also known as provisional re-enrolment - takes place in October, when students indicate their choice of unit of study enrolment for the following year. After results are approved, pre-enrolment students are regarded as enrolled in those units of study for which they are qualified. Their status is "enrolled" and remains so provided they pay any money owing and comply with other requirements by the due date. Students who do not successfully pre-enrol in their units of study for the next regular session are required to attend the University on set dates during the January/February enrolment period. (See also Enrolment.)

Prerequisite
A unit of study that is required to be successfully completed before another unit of study can be attempted. Prerequisites can be mandatory (compulsory) or advisory. (See also Assumed knowledge, Corequisite, Prerequisite, Waiver.)

Prizes
Awarded in recognition of outstanding performance, academic achievement or service to the community or University.

Probationary candidature
A student who is enrolled in a postgraduate course on probation for a period of time up to one year. The head of department is required to consider the candidate's progress during the period of probation and make a recommendation for normal candidature or otherwise to the faculty.

Professional practice
Students undertake placement in a professional practice as a part of their course requirements. May require University approved supervision. Professional placements are located in a wide range of professional practices environments, and may not require additional criteria to be fulfilled.

Progression
Satisfactory progression is satisfying all course and faculty rules (normally assessed on an annual basis) to enable the completion of the chosen award within the (maximum) completion time allowed. (See also Exclusion.)

Prohibited combinations of units of study
When two or more units of study contain a sufficient overlap of content, enrolment in any one such unit prohibits enrolment in any other identified unit. (See also unit of study.)

Provisional re-enrolment
See Pre-enrolment.

Q

Qualification
An academic attainment recognised by the University.

Qualifier
A mandatory (compulsory) prerequisite unit of study which must have a grade of pass or better. (See also Assumed knowledge, Corequisite, Prerequisite, Waiver.)

R

Recycling
The submission for assessment of one's own work, or of work which substantially the same, which has previously been counted towards the satisfactory completion of another unit of study, and credited towards a university degree, and where the examiner has not been informed that the student has already received credit for that work.

Registration
In addition to enrolling with the faculty in units of study, students must register with the department responsible for teaching each unit. This is normally done during Orientation Week. Note that unlike enrolment, registration is not a formal record of units attempted by the student.

Research course
See Course - research.

Research supervisor
A supervisor is appointed to each student undertaking a research postgraduate degree. The supervisor will be a full-time member of the academic staff or a person external to the University recognised for their association with the clinical teaching or the research work of the University. A research supervisor is commonly referred to as a supervisor. (See also Advisor, Associate supervisor, Instrumental supervisor/teacher, Supervision.)

Result processing
Refers to the processing of assessment results for units of study. For each unit of study, departments tabulate results for all assessment activities and assign preliminary results. (See also Assessment, Formative assessment, Examination period, Summative assessment)

Result processing schedule
The result processing schedule will be determined for each academic cycle. All departments and faculties are expected to comply with this schedule. (See also Assessment, Examination period, Result processing.)

Result
The official statement of a student's performance in each unit of study attempted as recorded on the academic transcript, usually expressed as a mark and grade. (See also Grade, Mark.)

Research Training Scheme (RTS)
The RTS provides Commonwealth-funded higher degree by research (HDR) students with an "entitlement" to a HECS exemption for the duration of an accredited HDR course, up to a maximum period of four years full-time equivalent study for a doctorate by research and two years full-time equivalent study for a master's by research.

S

Scholarships
Financial or other form of support made available to enable students to further their studies. (See also Bursaries.)

School
A school or academic unit shall encourage and facilitate teaching, scholarship and research and coordinate the teaching and examining duties of members of staff in the subjects or courses of study with which it is concerned.

Semester
A half-yearly teaching session whose dates are determined by the Academic Board. Normally all undergraduate sessions will conform to the semesters approved by the Academic Board. Any offering of an undergraduate unit not conforming to the semester dates (non-standard session) must be given special permission by the Academic Board. (See also Session, Non-standard session.)

Semester address
The address to which all official University correspondence is sent during semester time, if it is different to the permanent address.

Senate
The governing body of the University. (See the University Calendar for more details of its charter and powers.)
Senate appeals
Senate appeals are held for those students who, after being excluded by a faculty from a course, appeal to the Senate for readmission. While any student may appeal to the Senate against an academic decision, such an appeal will normally be heard only after the student has exhausted all other avenues, i.e. the department, faculty, board of study and, in the case of postgraduates, the Committee for Graduate Studies. (See also Exclusion.)

Session
Any period of time during which a unit of study is taught. A session differs from a semester in that it need not be a six-month teaching period, but it cannot be longer than six months. Each session maps to either Semester One or Two for DEST reporting purposes. Session offerings are approved by the relevant dean, taking into account all the necessary resources, including teaching space and staffing. The Academic Board must approve variation to the normal session pattern. (See also Semester, Non-standard teaching period.)

Session address
(See Semester address.)

Short course
A fee paying student undertaking a short course with the University of Sydney comprising professional development, executive training etc. The study undertaken by these students is a non-award course.

Show cause
(See Progression, Exclusion.)

Special consideration
Candidates who suffer serious illness or misadventure which may affect performance in any assessment, may request that they be given special consideration in relation to the determination of their results.

Sponsorship
Financial support of a student by a company or government body.

Stage
A normal full-time course of study taken in a year. (See also Course rules, EFTSU, Progression.)

Stream
A defined award course, which requires the completion of set units of study as specified by the course rules for the particular stream, in addition to the core program specified by the course rules. A stream will appear with the award course name on testamurs, e.g. Bachelor of Engineering in Civil Engineering (Construction Management). (See also Award course, Major, Minor.)

Student
Student means a person enrolled as a candidate for an award course or unit of study.

Student identifier (SID)
A nine-digit number which uniquely identifies a student at the University.

Student ID Card
All students who enrol are issued with an identification card. The card includes the student's name, SID, the course code, a library borrower's bar code and a passport-style photo. The card identifies the student as eligible to attend classes and must be displayed at formal examinations. It must be presented to secure student concessions and to borrow books from all sections of the University Library.

Student progress rate (SPR)
A calculation which measures the rate at which load undertaken is passed annually in each award program.

Student type
Student type identifies whether a student is local or international and the type of study the student is undertaking. (See also International student, Domestic student, Exchange student.)

Study Abroad program
A scheme administered by the International Office which allows international students who are not part of an exchange program to take units of study at the University of Sydney, but not towards an award program. In most cases the units of study taken here are credited towards an award at their home institution. (See also Exchange student.)

Subject area
A unit of study may be associated with one or more subject areas. The subject area can be used to define prerequisite and course rules, e.g. the unit of study "History of Momoyama and Edo Art" may count towards the requirements for the subject areas "Art History and Theory" and "Asian Studies".

Summative assessment
See Assessment.

Summer School
(See Sydney Summer School.)

Supervising faculty
The faculty which has the responsibility for managing the academic administration of a particular course, i.e. the interpretation and administration of course rules, approving students' enrolments and variations to enrolments. Normally the supervising faculty is the faculty offering the course. However, in the case of combined courses, one of the two faculties involved will usually be designated the supervising faculty. Further, in the case where one course is jointly offered by two or more faculties (e.g. the Liberal Studies course), a joint committee may make academic decisions about candidature and the student may be assigned a supervising faculty for administration.

Supervision
Refers to a one-to-one relationship between a student and a nominated member of the academic staff or a person specifically appointed to the role. (See also Advisor, Associate supervisor, Instrumental supervisor/teacher, Research supervisor.)

Suppression of results
Results for a particular student can be suppressed by the University when the student has an outstanding debt to the University; or the student is facing disciplinary action. A student may also request a suppression for personal reasons.

Suspension
(See Course leave.)

Sydney Summer School
A program of accelerated, intensive study running for approximately six weeks during January and February each year. Both undergraduate and postgraduate units are offered. Summer School provides an opportunity for students at Sydney and other universities to catch up on needed units of study, to accelerate completion of a course or to undertake a unit that is outside their award course. All units attract full fees and enrolled students are also liable for compulsory subscriptions. Some fee-waiver scholarships are available.

T
Teaching department
(See School.)

Teaching end date
Official finish date of formal timetabled classes.
Glossary

Teaching start date
Official commencement date of formal timetabled classes.

Terminated
Term used when a student's candidature has been officially closed because they are not able to complete the Course requirements. (See also Candidature.)

Testamur
A certificate of award provided to a graduand, usually at a graduation ceremony. The Award conferred will be displayed along with other appropriate detail.

Thesis
A major work that is the product of an extended period of supervised independent research. (See also Course -- research.)

Timetable
The schedule of lectures, tutorials, laboratories and other academic activities that a student must attend.

Transcript
(See Academic transcript.)

Transfer
(See Course transfer.)

Tuition fees
Tuition fees may be charged to students in designated tuition fee-paying courses. Students who pay fees are not liable for HECS.

Universities Admissions Centre (UAC)
The UAC receives and processes applications for admission to undergraduate courses at recognised universities in NSW and the ACT. Most commencing, local undergraduate students at the University apply through the UAC.

Universities Admission Index (UAI)
A measure of overall academic achievement in the HSC that assists universities in ranking applicants for university selection. The UAI is based on the aggregate of scaled marks in ten units of the HSC, and is a number between 0.00 and 100.00 with increments of 0.05.

Under examination
Indicates that a research student has submitted their written work (thesis) for assessment, and is awaiting the finalisation of the examiners' outcome and recommendation.

Undergraduate
A term used to describe both a course leading to a diploma or bachelor's degree and a student enrolled in such a course.

Unit of study
Unit of study or unit means a stand-alone component of an award course. Each unit of study is the responsibility of a department. (See also Prohibited combinations of unit of study.)

Unit of study enrolment status
The enrolment status indicates whether the student is still actively attending the unit of study (i.e. currently enrolled) or is no longer enrolled. (See also Discontinuation or Cancellation.)

University
Unless otherwise indicated, University in this document refers to the University of Sydney.

University Medal
A faculty may recommend the award of a University Medal to a student qualified for the award of an undergraduate honours degree (or some master's degrees), whose academic performance is judged to be outstanding.

Upgrade
Where a student enrolled in a Master's by research course is undertaking research at such a standard that either the University recommends that the student upgrade their degree to a PhD, or the student seeks to upgrade to a PhD and this is supported by the University.

USYDnet
The University of Sydney's intranet system. It provides access to other services such as directories (maps, staff and student, organisations), a calendar of events (to which staff and students can submit entries), and a software download area.

Variation of enrolment
(See Enrolment variation.)

Vice-Chancellor and Principal
The chief executive officer of the University, responsible for its leadership and management. The Vice-Chancellor and Principal is head of both academic and administrative divisions.

Waiver
In a prescribed course, a faculty may waive the prerequisite or corequisite requirement for a unit of study or the course rules for a particular student. Unlike credit, waivers do not involve a reduction in the number of credit points required for a course. (See also Credit, Exemption.)

Winter School
An intensive session offered by the University during the mid-year break.

Weighted average mark (WAM)
This mark uses the unit of study credit point value in conjunction with an agreed "weight". The formula for this calculation is:

$$WAM = \frac{\sum (W_c \times M_c)}{Z(wy)}$$

Where Wc is the weighted credit point value - i.e, the product of the credit point value and the level of weighting of 1, 2, 3, or 4 for a first, second, third or fourth year unit of study respectively; and where Mc is the greater of 45 or the mark out of 100 for the unit of study.

The mark is the actual mark obtained by the student for the unit of study, or in the case of a failing grade with no mark - 0. Pass/Fail assessed subjects and credit transfer subjects (from another institution) are excluded from these calculations; however, the marks from all attempts at a unit of study are included. (Effective from 1 January 2004.)

In addition, faculties may adopt other average mark formulae for specific progression or entry requirements. If such a formula is not specified in the faculty resolutions, the formula outlined above is used. (See also WAM weight.)
Glossary

**WAM weight**
A weight assigned to each unit of study to assist in the calculation of WAMs.

**Y**

*Year of first enrolment (YFE)*
The year in which a student first enrols at the University. (See also Commencement date.)

*Youth Allowance*
Youth Allowance is payable to a full-time student or trainee aged 16–24 years of age who is enrolled at an approved institution such as a school, college, TAFE or university, and undertaking at least 15 hours a week face-to-face contact.
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Amendments

Please note that the following Handbook amendments should be read in conjunction with the 2006 Handbooks as published on www.usyd.edu.au/handbooks

- All amendments are listed by item number and referenced by the page to which they refer in the Handbook.
- The relevant Handbook and those amendments listed below are binding and final.
- Inquiries and questions relating to the information below should be directed to the relevant faculty.

<table>
<thead>
<tr>
<th>Item</th>
<th>Amendment</th>
<th>Handbook page number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Under ‘Camden Campus’ Replace TBA with Imke Tammen</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Under ‘Research Development’ Replace TBA with David Emery</td>
<td>3</td>
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<tr>
<td>3</td>
<td>Move ‘Peter Thomson, MSC, …’ (bottom right-hand column ‘Senior Lecturers’) to ‘Associate Professors’ position</td>
<td>3</td>
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<tr>
<td>4</td>
<td>Update ‘Senior Lecturers’ as follows: Julia Beatty, BSc(Hons) BVetMed PhD, FACVSc (Feline Medicine), MRCVS</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Update ‘Lecturers’ as follows: Kate Bosward, BVSc BSc(Vet) PhD GradDip VetClinStud GradCert EducStud</td>
<td>3</td>
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<tr>
<td>6</td>
<td>Add to ‘Sub Deans’ Animal Husbandry, Dr Pietro Celi</td>
<td>3</td>
</tr>
</tbody>
</table>

Authorised by Lee Mashman 03/04/06