



The University of Sydney

Faculty of Veterinary Science Handbook 2000

The University's homepage tells you about courses at Sydney, some careers they can lead to, and what university life is like. The interactive website, with video and sound clips, has links to the University's faculties and departments.

You can explore the University of Sydney on the web at <http://www.usyd.edu.au/>.

University semester and vacation dates 2000

Please note there may be some variation to these dates for some courses.

Academic year information (Academic Board policy and dates 1998-2002) is available at:

http://www.usyd.edu.au/su/planning/policy/acad/3_Oaca.html

	Day	Date
Compulsory Orientation Day	Friday	25 February
<i>Year 4: Clunies Ross Lecture Theatre, commences 10 am</i>		
<i>Year 5: Breakwell Lecture Theatre, commences 8 am</i>		
First Semester lectures begin	Monday	28 February
Easter recess		
Last day of lectures	Thursday	20 April
Lectures resume (Years 1-3)	Monday	1 May
Lectures resume (Years 4-5)	Monday	8 May
Study vacation: 1 week beginning	Monday	5 June
Examinations commence	Tuesday	13 June
First Semester ends	Saturday	24 June
Second Semester lectures begin	Monday	10 July
Mid-semester recess		
Last day of lectures	Friday	8 September
Lectures resume	Monday	9 October
Study vacation: 1 week beginning	Monday	6 November
Years 4 and 5	Monday	30 October
Examinations commence	Monday	13 November
Years 4 and 5	Monday	6 November
Second Semester ends	Saturday	2 December

The University of Sydney
 Faculty of Veterinary Science Handbook 2000
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The information in this handbook is subject to approval and/or change by the appropriate faculty or the University. Students should always check the accuracy of the information with faculty staff.

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Cover illustration by Bozena Jantulik, Department of Veterinary Anatomy and Pathology.

Communications should be addressed to:

The University of Sydney, NSW 2006.

Phone: (02) 9351 2222

Faculty of Veterinary Science phone: (02) 9351 2441

Faculty of Veterinary Science fax: (02) 9351 3056

Last dates for withdrawal or discontinuation 2000

	Day	Date
<i>Semester 1 units of study</i>		
Last day to add a unit	Friday	10 March
Last day for withdrawal	Friday	31 March
Last day to discontinue with permission	Friday	14 April
Last day to discontinue	Friday	2 June
<i>Semester 2 units of study</i>		
Last day to add a unit	Friday	28 July
Last day for withdrawal	Thursday	31 August
Last day to discontinue with permission		Not applicable in 2000 <i>(there are 7 weeks to withdraw until 31 August)</i>
Last day to discontinue	Friday	3 November
<i>Full Year units of study</i>		
Last day for withdrawal	Friday	31 March
Last day to discontinue with permission	Friday	14 July
Last day to discontinue	Friday	3 November

Contents

Welcome from the Dean	iv
1. Guide to the Faculty	1
Departments	1
2. Introduction to undergraduate courses	3
Bachelor of Veterinary Science, BVSc	3
Progression in the Bachelor of Veterinary Science	3
Bachelor of Science (Veterinary), BSc(Vet)	3
3. Units of study	5
Introduction	5
Bachelor of Veterinary Science units of study	5
Year1	5
Year 2	6
Year 3	7
Year 4	9
Year 5	11
Bachelor of Science (Veterinary) units of study	13
4. Table of units of study	15
Bachelor of Veterinary Science	15
Bachelor of Science (Veterinary)	17
5. Regulations	19
Bachelor of Veterinary Science, BVSc	19
Bachelor of Science (Veterinary), BSc(Vet)	20
Regulations	21
Assessment	22
6. Postgraduate information	25
Postgraduate scholarships	26
7. Other Faculty information	29
Faculty Office	29
General information and advice	29
Foundations	30
Staff	31
Faculty	31
Departments	31
Teaching staff from other faculties	33
Undergraduate scholarships and prizes	33
Facilities and student societies	34
History of the Faculty	36
Anew Bachelor of Veterinary Science (BVSc) course	37
General University information	39
Glossary	43
Index	47
Map of main campus	50
Map of Camden campus	52

Welcome from the Dean

Congratulations on your selection into the Faculty of Veterinary Science. I know that for many of you, commencing Veterinary Science represents the fulfilment of a dream of training to become a Veterinarian. The staff in the Faculty want to ensure that you have the best possible learning experience and we are committed to assisting you in the years ahead. The University also provides a wide range of services for helping students who may experience medical, financial, emotional or learning difficulties. The Sub-Dean for Student Welfare and the Faculty Manager are able to help you make contact with these services.

One of our most important considerations is the care and welfare of animals. During your years in the Faculty you will be working with a range of animal species and at all times we have obligations to ensure the highest standards of care for our animals. Later in the course you will be involved in the University Veterinary Centres in Sydney and Camden. There you will take part in the treatment of production and companion animals under the supervision of experienced veterinarians. Our clinics also employ many veterinarians with specialist qualifications and you will be trained in state of the art methods of diagnosis and treatment of animal diseases.

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 third or fourth year of their course to undertake one year of supervised study 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 five years, more than 20 students have completed this degree and found it to be one of the most satisfying things that they have done. The requirements for this one-year degree are described in this handbook.



Knowledge in the broad area of Veterinary Science is expanding at a prodigious rate. 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 need to continue after you graduate. 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 warmly welcome you to the Faculty and to your first step in becoming professional colleagues in what is a noble task - the care and treatment of animals.

A handwritten signature in black ink, which appears to read 'Reuben J. Rose'. The signature is stylized and written in a cursive-like font.

Reuben J. Rose, Dean.

Guide to the Faculty

Faculty of Veterinary Science

Address:
Faculty of Veterinary Science B01
University of Sydney NSW 2006 Australia
Phone: +61 2 9351 2441/3550
Fax: +61 2 9351 3056
Email: vetsci@vetsci.usyd.edu.au
<http://www.usyd.edu.au/su/vetfac>

Dean

Professor Reuben J. Rose

Pro-Dean

Associate Professor Wayne L. Bryden

Associate Deans

Animal Welfare

Dr Robert J. Dixon

Camden Campus

Associate Professor Garry M. Cross

Postgraduate Education

Associate Professor Frank W. Nicholas

Research

Dr Herman W. Raadsma

Teaching

Dr G. Henry Collins

Sub-Deans

Students

Dr Rhondda B. Canfield

Undergraduate Admissions

Dr Paul R. Hopwood

Committee

Faculty Development Committee

Associate Professor Wayne L. Bryden

Faculty Manager

Cindy Wilkinson

Manager Information Systems

John Tebbitt

Departments

Animal Science

Head of Department

Associate Professor W. M. Chisholm Maxwell

Sydney

Phone: +61 2 9351 2464

Fax: +61 2 9351 3957

Email: margb@vetsci.usyd.edu.au

<http://www.usyd.edu.au/su/vetfac/faculty/dep/das.html>

Camden

Phone: +61 2 9351 1665

Fax: +61 2 9351 1693

Email: lizt@camden.usyd.edu.au

<http://www.usyd.edu.au/su/vetfac/faculty/dep/das.html>

Veterinary Anatomy and Pathology

Head of Department

Associate Professor Paul J. Canfield

Sydney

Phone: +61 2 9351 2445

Fax: +61 2 9351 6880

Email: L.Tollefsen@vetp.usyd.edu.au

<http://www.usyd.edu.au/su/vetfac/faculty/dep/dvap.html>

Veterinary Clinical Sciences

Head of Department

Associate Professor David R. Hodgson

Camden

Phone: +61 2 9351 1755

Fax: +61 2 4655 6942

Email: hfrappell@camden.usyd.edu.au

<http://www.usyd.edu.au/su/vetfac/faculty/dep/index.html>

Sydney

Phone: +61 2 9351 2443

Fax: +61 2 9351 4261

Email: proberts@mail.usyd.edu.au

<http://www.usyd.edu.au/su/vetfac/faculty/dep/index.html>

Introduction to undergraduate courses

Bachelor of Veterinary Science, BVSc

(see also page 5)

The Veterinary Science course at the University of Sydney produces graduates with the knowledge and practical and generic skills to enable them to pursue many career options as veterinary scientists. The five-year course has a strong emphasis on development of animal handling skills, and includes programs for students that enable them to work in a wide range of commercial animal industries. Students spend twelve weeks on horse, pig, beef and dairy cattle, sheep, and poultry farms. These experiences help students develop an understanding of the factors involved in management of animals. 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 during the course, and the links with practising veterinary surgeons are an important component of the education program, complementing the learning and skill acquisition within the Faculty. The Faculty is committed to use of a variety of teaching methods, including lectures, laboratory practical classes, tutorials, case studies, workshops, computer assisted learning, practical demonstrations, and others. This variety recognises that not all students learn equally effectively in all teaching methods. In years 4 and 5 students observe and participate in clinical activities at the two University Veterinary Centres in Sydney and Camden. Studies of clinical cases and methods of dealing with real-life problems in veterinary science are a very important aspect of the course.

The Faculty is committed to a course that will provide students with opportunities to learn about clinical veterinary science from the first year of study, and teaching material is organised to demonstrate how sciences such as chemistry and biochemistry are applicable to veterinary science.

General Information on admissions, enrolment and other matters are included in Section 9 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 in small groups.

Practical work requirements

Students are required to do practical work in animal husbandry in the vacation periods in the first three years of the course.

During the vacation periods from the end of July Semester of Year 4, students will be rostered to spend three weeks at each of the University Veterinary Centres, Sydney and Camden, for practical experience in veterinary medicine and surgery. Students are also required to undertake specified extramural clinical practical work, which will be arranged by the Faculty Office.

Assumed knowledge for school leavers

Two unit Maths and either (i) 2 unit Chemistry and 2 unit Physics, or (ii) 4 unit Science at the NSW Higher School Certificate or equivalent.

Progression in the Bachelor of Veterinary Science

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:

- (i) the timetable arrangements are such that students can attend all classes
- (ii) all prerequisites for enrolment in the unit of study have been satisfied
- (iii) any corequisites for the units in the following year can be 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 corequisite requirements if a student demonstrates that such requirements are not appropriate. Applications for such waivers should be submitted to the Head of Department.

Bachelor of Science (Veterinary), BSc(Vet)

(See also page 13)

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

Introduction

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 were correct at the time of printing but are subject to change.

Books

Students are advised not to buy textbooks until lectures commence and lecturers recommend the preferred books.

NB: For students commencing Year 1 in 2000 the units of study for Years 2-5 are listed on page 38.

Bachelor of Veterinary Science units of study

Year

VETS 1006 Animal Husbandry 1A

5 credit points

Assoc Prof Wayne Bryden

Offered: February. Classes: 65 hours of lectures and practical classes. Assessment: Written examination.

This unit of study covers aspects of animal management and husbandry 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.

Practical: A full day practical class of handling dogs and cats.

Textbooks

Students should consult lecturers before purchasing text or reference books.

Gardner, J.A.A., et al., eds, Pig Production in Australia, 2nd edn, Butterworths, 1990.

Huntington, P.J. and Cleland, R, Horse Sense: The Australian Guide to Horse Husbandry, Agmedia, 1992.

North, M.O., and Bell, D.D., Commercial Chicken Production Manual, 4th edn, A.V.I. Publishing Company, 1990.

O'Farrell, V, Manual of Canine Behaviour, British Small Animal Veterinary Association, 1992.

Reid, R.L., A Manual of Australian Agriculture, 5th edn, Heinemann, 1990.

Sainsbury, D., Animal Health, 2nd edn, Blackwell Science, 1998.

Turner, D.C. and Bateson, P., The Domestic Cat: the Biology of its Behaviour, Cambridge University Press, 1988.

VETS 1019 Animal Husbandry 1B

7 credit points

Assoc Prof Wayne Bryden

Offered: July. Classes: 91 hours of lectures and practical classes. Assessment: Written examination.

This unit of study covers aspects of ruminant management and production, especially sheep, beef and dairy cattle. The agronomic and ecological principles of the production and utilisation of native and sown pastures will also be covered.

Practical: 9 full day practical handling classes are conducted at the University Farms, Camden, on horses, pigs, poultry, sheep, beef and dairy cattle and pastures. Practical classes will be taken by all students and will be examinable.

Textbooks

Students should consult lecturers before purchasing text or reference books.

Anderson, R.S. and Edney, A.T.B., Practical Animal Handling, Pergamon Press, 1991.

Cottle, D.J., ed., Australian Sheep and Wool Handbook, Inkata Press, 1991.

Gardner, J.A.A., et al., eds, Pig Production in Australia, 2nd edn, Butterworths, 1990.

Huntington, P.J. and Cleland, R, Horse Sense: The Australian Guide to Horse Husbandry, Agmedia, 1992.

North, M.O. and Bell, D.D., Commercial Chicken Production Manual, 4th edn, A.V.I. Publishing Company, 1990.

Reid, R.L., A Manual of Australian Agriculture, 5th edn, Heinemann, 1990.

Sainsbury, D., Animal Health, 2nd edn, Blackwell Science, 1998.

VETS 1013 Cell Biology 1A

4 credit points

Dr Paul Hopwood

Assumed knowledge: See UAC Handbook. Offered: February. Classes: 37 lectures, 8 hours of practical classes and 2 hours of tutorials. Assessment: 1 hour written paper 70% (cell structure 15 mins 17%, cell function 45 mins 53%), mid-semester assignment 10%, light microscopy assignment 10% and operation of a light microscope 10%.

This unit will introduce the student to the biology of the cell. Topics include cell structure and molecular biology. The cell structure component includes a description of cell membranes and organelles. The molecular biology component includes a discussion of enzyme structure and metabolic pathways.

Clinical material is used to illustrate normal structure and function.

Textbooks

Alberts B., et al., Essential Cell Biology, Garland Publishing, New York, 1998.

VETS 1018 Cell Biology 1B

6 credit points

Assumed knowledge: VETS 1013 Cell Biology 1A. **Offered:** July.

Classes: 51 lectures, 20 hours of practical classes and 2 hours of tutorials. **Assessment:** 2 hour written paper 80% (theory 90 mins 60%, practical 30 mins 20%) and mid-semester assignment 20%.

In this unit the study of the molecular biology of the cell will be extended to include gene expression, recombinant DNA technology, membrane structure and function, cell cycle, cell differentiation and cancer.

Clinical material is used to illustrate normal structure and function.

Textbooks

Alberts B., et al., Essential Cell Biology, Garland Publishing, New York, 1998.

CHEM 1405 Chemistry

6 credit points

Dr Julia James

Assumed knowledge: Chemistry 2 Unit or the Chemistry component of 3/4 Unit Science HSC courses. **Offered:** February.

Classes: 52 lectures and nine 3 hour practical classes.

Assessment: Theory examination 75% together with 25% for laboratory exercises and continuous assessment quizzes.

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 the Chemistry 2 unit HSC course or the Chemistry component of the Science 3/4 unit course.

Full detailed information is available from the School of Chemistry.

A total of 52 lectures comprising 28 lectures in inorganic and physical chemistry and 24 lectures in organic chemistry.

Practical: Nine 3 hour sessions.

Textbooks

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

VETS 1021 Professional Practice 1A

3 credit points

Dr Henry Collins

Offered: February. **Classes:** 13 classes of 3 hours and extramural experience. **Assessment:** Submission of a satisfactory portfolio of work 60% and documented participation in accredited activities (to a maximum of 40%).

The unit is the first step in the personal and professional development of the veterinarian. It provides an introduction to the faculty, the profession and the practice of veterinary science. During this semester, students investigate the licensing, siting and organisation of veterinary practices. They acquire ability in managing and presenting information, both orally and in writing; in basic finances; communication and in the clinical examination of dogs and cats. Attendance at mentor practices provide opportunities for study of practice management and the further development of clinical skills. Participatory forums provide opportunities to develop informed and balanced opinions on a variety of animal-related and veterinary issues.

VETS 1017 Professional Practice 1B

3 credit points

Dr Henry Collins

Assumed knowledge: VETS 1021 Professional Practice 1A.

Offered: July. **Classes:** 11 classes of 3 hours and extramural experience. **Assessment:** Portfolio of work 60% and documented participation in accredited activities (to a maximum of 40%).

This unit consolidates and extends the knowledge and skills acquired in Professional Practice 1A. Topics studied include veterinary careers, design of veterinary premises, basic accounting, clinic records and stress management. Contemporary animal welfare issues are addressed through participatory forums.

VETS 1014 Veterinary Anatomy & Physiology 1A

6 credit points

Dr Paul Hopwood

Offered: February. **Classes:** 32 lectures, 37 hours of practical classes and 12 hours of tutorials. **Assessment:** 2 hour written paper 40%, physiology assignments 20% and anatomy tissue identification 40%.

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 learning.

Textbooks

Dellmann, H. and Eurell, J., Textbook of Veterinary Histology, 5th edn, Williams and Wilkins, 1998.

Evans, H.E., Miller's Anatomy of the Dog, 3rd edn, Saunders, 1993.

Swenson, M.J. and Reece, W.O., Dukes' Physiology of Domestic Animals, 11th edn, Cornell University Press, 1993.
Practical Class Manual

VETS 1020 Veterinary Anatomy & Physiology 1B

8 credit points

Dr Glenn Shea

Offered: July. **Classes:** 52 lectures, 49 hours of practical classes and 8 hours of tutorials. **Assessment:** 2 hour written theory paper 50%, physiology assignments 20% and anatomy tissue identification 30%.

In this unit the gross 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 in animals are included. Computer based tutorials and assessments will be used to assist learning.

Textbooks

Dellmann, H. and Eurell, J., Textbook of Veterinary Histology, 5th edn, Williams and Wilkins, 1998.

Evans, H.E., Miller's Anatomy of the Dog, 3rd edn, Saunders, 1993.

Swenson, M.J. and Reece, W.O., Dukes' Physiology of Domestic Animals, 11th edn, Cornell University Press, 1993.
Practical Class Manual

Year 2

VETS 2001 Animal Genetics

3 credit points

Assoc Prof Frank Nicholas and Assoc Prof Chris Moran

Offered: February. **Classes:** 45 hours of lectures/ tutorials.

Assessment: 50 minute test mid semester 33% and 2 hour examination 67%.

A unit of study introducing those aspects of genetics relevant to veterinarians. The first section (Genetics and Animal Disease) covers single-locus disorders (including those with a known molecular basis), chromosomal abnormalities, non-Mendelian familial disorders, immunogenetics, pharmacogenetics, genetic variation in pests, parasites and pathogens, and genetic and environmental control of disease. The second section (Genetics and Animal Improvement) covers relationship and inbreeding, variation and heritability, breed history and structure, selection and crossing.

Textbooks

Nicholas, F.W., Introduction to Veterinary Genetics, Oxford University Press, Oxford, 1996.

VETS 2031 Biochemistry 2A

3 credit points

Assoc Prof Emma Whitelaw

Offered: February. **Classes:** 52 lectures. **Assessment:** Two and a half hour examination.

This unit of study consists of lectures covering the topics of proteins and enzymes in sufficient detail for an understanding of intermediary metabolism; food and energy production. In addition, prokaryotic and eukaryotic molecular genetics are presented as background information for Genetics.

Textbooks

Campbell, M.K., Biochemistry, Harcourt Brace, Philadelphia, 1998.

VETS 2032 Biochemistry 2B

5 credit points

Assoc Prof Emma Whitelaw

Assumed knowledge: VETS 2031 Biochemistry 2A. **Offered:** July. **Classes:** 25 lectures and four 5 hour practical laboratory classes.

Assessment: 2 hour examination including a section on laboratory work 15% of the total.

This unit of study consists of lectures which concentrate on the different metabolic pathways in specific tissues and finally an integrated view of metabolism under certain physiological conditions such as starvation. The laboratory component comprises 4 classes designed to illustrate some of the techniques used in clinical pathology.

Textbooks

Campbell, M.K., Biochemistry, Harcourt Brace, Philadelphia, 1998.

VETS 2017 Veterinary Anatomy and Histology 2A

8 credit points

Dr Glenn Shea

Prerequisite: VETS 1011 Veterinary Anatomy and Histology 1 and VETS 1005 Veterinary Cytology. **Assumed knowledge:** VETS 1011

Veterinary Anatomy and Histology 1 and VETS 1005 Veterinary Cytology. **Offered:** February. **Classes:** 29 lectures and 70 hours of practical classes. **Assessment:** Based on theory and practical examinations.

The unit of study covers the anatomy of the horse and the anatomy of the domestic fowl. Integrated microscopic anatomy of selected tissues is included.

Practical: Practical classes are integrated with lecture material and involve dissection of horse and domestic fowl cadavers. Gross anatomy is studied on both a topographic and systemic basis.

Textbooks

Dellmann, H.D. and Evrell, J.A., Textbook of Veterinary Histology, 5th edn, Williams and Wilkins, 1998.

Dyce, K.M., et al., Textbook of Veterinary Anatomy, 2nd edn, Saunders, 1996.

Sack, W.O., Rooney's Guide to the Dissection of the Horse, Veterinary Textbooks, Ithaca, 1991.

VETS 2027 Veterinary Anatomy and Histology 2B

9 credit points

Dr Rhondda Canfield

Assumed knowledge: VETS 1011 Veterinary Anatomy and Histology 1 and VETS 1005 Veterinary Cytology. **Offered:** July.

Classes: 43 lectures, 21 hours of assignments and 49 hours of practical classes. **Assessment:** Based on assignments, presentations and theory and practical examinations.

This unit of study includes comparative haematology (9 hours); the biology of fish, amphibians, reptiles, monotremes, marsupials and marine and exotic mammals (24 hours); the gross anatomy and the histology of selected tissues of ruminants, pigs and cats (82 hours).

Practical: Practical classes are integrated with lecture material and involve tutorials and dissection of sheep cadavers and isolated viscera and body parts of cattle, sheep, goats, pigs and cats. During the last 10 practical classes and as part of the assessment process, students have an opportunity to display their knowledge and skill by dissecting and demonstrating structures within a given body region (a range of species are included in this exercise).

Textbooks

Dellmann, H.D. and Evrell, J.A., Textbook of Veterinary Histology, 5th edn, Williams and Wilkins, 1998.

Dyce, K.M., et al., Textbook of Veterinary Anatomy, 2nd edn, Saunders, 1996.

Nickel, R., et al., The Viscera of the Domestic Mammals, 2nd edn, PaulParey, 1979.

VETS 2005 Veterinary Embryology

4 credit points

Dr Rhondda Canfield

Assumed knowledge: VETS 1011 Veterinary Anatomy and Histology 1 and VETS 1005 Veterinary Cytology. **Offered:** February.

Classes: 29 lectures and 16 hours of practical classes.

Assessment: Based on assignment, project presentation and theory and practical examinations.

Primary emphasis is on the normal prenatal development of body structure and placentation of domestic animals. Reference is made to abnormal development in domestic animals and placentation of other species.

Practical: Practical classes reinforce lecture material and consist of tissue examination at the gross and microscopic level, examination of models, studies of congenital abnormalities and video film.

Textbooks

The following two veterinary books are the preferred options but were out of print as at August 1999.

Latshaw, W.K., Veterinary Developmental Anatomy, B.C. Decker, 1987.

Noden, D.M. and de Lahunta, A., The Embryology of Domestic Animals: Developmental Mechanisms and Malformations, Williams and Wilkins, 1985.

Recommended alternative text

Larsen, W.J., Human Embryology, Churchill Livingstone, 1997.

VETS 2025 Veterinary Pathology 2

4 credit points

Dr Malcolm France

Prerequisite: Veterinary Science Year 1. **Assumed knowledge:** Veterinary Science Year 1. **Offered:** July. **Classes:** 42 lectures and eight 2 hour practical classes. **Assessment:** 2 hour written examination.

Veterinary Pathology 2 is a unit of study in general pathology and deals with causes of disease, morbid and reactive processes, inflammation, immunological reactions, regressive and progressive tissue changes and includes the study of neoplastic growths. Practical work includes the examination of gross and microscopic changes in representative examples of these processes.

Practical: 16 hours of laboratory based practical classes.

Textbooks

Carlton, W.W. and McGavin, M.D., Thomson's Special Veterinary Pathology, 2nd edn, Mosby, 1995.

Janeway, C.A., et al., Immunobiology. The Immune System in Health and Disease, 4th edn, Garland Publications, 1999.

Jones, T.C., et al., Veterinary Pathology, 6th edn., Williams and Wilkins, 1997.

Kumar, V, et al., Basic Pathology, 6th edn, W.B. Saunders Co., 1997.

VETS 2061 Veterinary Physiology 2A

6 credit points

Dr Paul McGreevy

Assumed knowledge: Veterinary Science Year 1. **Offered:** February. **Classes:** 39 lectures and 36 hours of other classes.

Assessment: One 2 hour examination and assignments.

Topics include the physiology of homeostasis, peripheral and autonomic nervous systems, muscle function, blood and body fluids, respiratory and renal function and cardiovascular physiology. Classes other than lectures include tutorials, seminars, laboratory work, library research, computer based learning and formative assessment sessions.

Practical: 1 or 2 practicals/tutorials per week.

Textbooks

Swenson, M.J. and Reece, W.O. eds, Dukes' Physiology of Domestic Animals, 11th edn, Cornell University Press, Ithaca, 1993.

VETS 2062 Veterinary Physiology 2B

6 credit points

Dr Paul McGreevy

Assumed knowledge: Veterinary Science Year 1 and VETS 2061 Veterinary Physiology 2A. **Offered:** July. **Classes:** 34 lectures and 46 hours of other classes. **Assessment:** One 2 hour examination and assignments.

Topics include endocrine and cardiovascular physiology, digestion, reflexes, acid-base balance and male and female reproductive physiology. Classes other than lectures include tutorials, seminars, laboratory work, library research, computer based learning, a group project and formative assessment sessions.

Practical: 1 or 2 practicals/tutorials per week.

Textbooks

Swenson, M.J. and Reece, W.O., eds, Dukes' Physiology of Domestic Animals, 11th edn, Cornell University Press, Ithaca, 1993.

Year 3

VETS 3010 Animal Nutrition 3

4 credit points

Prof David Fraser

Assumed knowledge: Veterinary Science Years 1 and 2. **Offered:** July. **Classes:** 36 lectures. **Assessment:** Examination.

A unit of study concerned with the principles and practice of nutrition.

Textbooks

McDonald, P., et al., Animal Nutrition, 4th edn, Longmans, 1988.

VETS 3029 Veterinary Anaesthesia 3

1 credit point

Ms Merran Govendir and Ms Sanaa Zaki

Prerequisite: Veterinary Science Years 1 and 2. **Offered:** July.

Classes: 6 lectures and 4x4 hours of practical classes (in conjunction with surgical practical classes). **Assessment:** Written examination.

This unit of study is a general introduction to the principles important in maximising patient safety whilst under anaesthesia. Topics discussed include aspects of respiratory physiology important to understanding the induction and maintenance of general anaesthesia, preanaesthetic patient assessment, monitoring patient anaesthetic depth and common pharmacological agents used in anaesthetising dogs and cats.

Practical sessions introduce students to the above concepts as well as providing instruction in developing manual skills such as venipuncture and intubation etc.

Textbooks

Produced in department (lecture notes).

VETS 3024 Veterinary Medicine 3

4 credit points

Assoc Prof David Watson

Prerequisite: Veterinary Science Years 1 and 2. **Assumed**

knowledge: February Semester Year 3. **Offered:** July. **Classes:** 38 lectures. **Assessment:** 1 hour multiple choice question examination. The material will be further assessed during February and July semesters of fourth year.

A unit of study in veterinary medicine and diseases of organ systems of animals, including clinical methods and techniques of examination. Diseases of organ systems of the dog and cat are discussed. Attempts are made to integrate knowledge of anatomy, physiology, biochemistry, pharmacology, pathology, genetics and nutrition. The lectures may be illustrated with clinical material from the University Veterinary Centre, Sydney.

Textbooks

Nelson, R.W. and Couto, C.G., eds, Small Animal Internal Medicine, 2nd edn, Mosby, 1998.

VETS 3001 Veterinary Microbiology 3A

5 credit points

Assoc Prof Daria Love

Prerequisite: Veterinary Science Years 1 and 2. **Assumed**

knowledge: VETS 2025 Veterinary Pathology 2, VETS 2001 Animal Genetics. **Offered:** February. **Classes:** 38 lectures and 26 hours of practical classes. **Assessment:** Two and a half hour written examination (75% of total assessment) and one and a half hour practical examination (25% of total assessment).

Lectures introduce the basic structure and function of prokaryotic organisms and viruses, the principles of bacterial variation and the principles of microbial pathogenesis. The aim is to present a basic approach to understanding the relationship between micro-organisms and host species and how and why disease results. This is followed by an introduction to some of the groups of microorganisms involved in infectious diseases. In this section, microorganisms are discussed in the context of associating basic characteristics of groups of microorganisms with epidemiology, pathology and immunology to enable students to study infectious diseases in an integrated and problem oriented way.

Practical work includes an introduction to the concept of normal flora and sample collection. A series of exercises in practical classes demonstrate and apply principles of sample collection and students culture and identify microorganisms from clinical case material. These exercises are then discussed in the context of a veterinary practice situation to show how the results enable diagnosis, prognosis, treatment and control of infectious disease. Tutorials apply these principles to enable students to understand the requirements necessary to manage infectious diseases in practice.

Textbooks

Fenner, F.J., et al., Veterinary Virology, 2nd edn, Academic Press,

California, 1993, ISBN 0-12-253056-X.

Gillespie, J. and Timoney, J., Hagen and Bruner's Infectious Diseases of Domestic Animals, 7th edn, Cornell University Press, 1981, ISBN 0-8014-1333-8.

VETS 3003 Veterinary Microbiology 3B

8 credit points

Assoc Prof Daria Love

Prerequisite: Veterinary Science Years 1 and 2. **Assumed**

knowledge: VETS 3001 Veterinary Microbiology 3A. **Offered:** July. **Classes:** 43 lectures and 38 hours of practical classes.

Assessment: 3 hour written examination (80% of total assessment) and one and a half hour practical examination (20% of total assessment).

The basic information in VETS 3001 is used to present major groups of microorganisms of veterinary importance (bacteria, viruses and fungi) and the diseases they produce. Lectures outline the general biological properties of groups of bacteria, fungi and viruses to enable the student to develop a broad framework of understanding of how specific organisms are involved in disease pathogenesis. These principles then allow the student to develop an approach to the investigation and control of infectious diseases.

This information is then reinforced in a series of practical classes which investigate diseases caused by various micro-organisms or investigate diseases of specific organs or systems. These exercises show how a diagnosis is made (involving various laboratory investigations including microbiology, pathology and immunology) and how these data are used to resolve and manage infectious diseases.

Textbooks

Fenner, F.J., et al., Veterinary Virology, 2nd edn, Academic Press, California, 1993, ISBN 0-12-253056-X.

Gillespie, J. and Timoney, J., Hagen and Bruner's Infectious Diseases of Domestic Animals, 7th edn, Cornell University Press, 1981, ISBN 0-8014-1333-8.

VETS 3014 Veterinary Parasitology 3

4 credit points

Dr Henry Collins

Offered: February. **Classes:** 28 lectures and fourteen 2 hour practical classes. **Assessment:** Based on compulsory exercises, a group project and final written and practical examinations.

A study of the major parasitic diseases of the companion animals: dogs, cats, horses, cage birds and aquarium fish. The unit of study covers the structure and biology of helminth, arthropod and protozoal parasites, but the emphasis is on the pathogenesis, diagnosis, epidemiology, treatment and control of parasitic diseases. Educational objectives are used to assist learning; assessment is based on these objectives and comprises a group project, compulsory exercises and final practical and written examinations.

Practical: Laboratory sessions involving recognition of parasites, acquisition of diagnostic skills and completion of compulsory exercises.

Textbooks

No textbook required. Manual: Collins, G.H., Veterinary Parasitology 1, latest edition, available at first class.

VETS 3004 Veterinary Pathology 3

6 credit points

Dr Malcolm France

Prerequisite: Veterinary Science Year 2. **Assumed knowledge:**

VETS 2025 Veterinary Pathology 2 and Veterinary Science Year 2. **Offered:** February. **Classes:** 60 lectures and sixteen 2 hour practical classes. **Assessment:** 3 hour written examination, 1 hour practical examination and assignments.

Veterinary Pathology 3 is a unit of study in systematic pathology and applies the principles of general pathology to diseases of the various organs and systems of domestic animals.

Practical work includes the examination of gross and microscopic changes in representative examples of diseases of the major organs and instruction in post mortem examination of animals.

Practical: 32 hours of laboratory based classes and practical classes involving post mortem examination.

Textbooks

Carlton, W.W. and McGavin, M.D., Thomson's Special Veterinary Pathology, 2nd edn, Mosby, 1995.

Janeway, C.A., et al., Immunobiology. The Immune System in Health and Disease, 4th edn, Garland Publications, 1999.

Jones, T.C., et al., *Veterinary Pathology*, 6th edn., Williams and Wilkins, 1997.
Kumar, V., et al., *Basic Pathology*, 6th edn, W.B. Saunders Co., 1997.

VETS 3033 **Veterinary Pharmacology and Toxicology 3A**

2 credit points
Dr Jill Maddison

Assumed knowledge: Veterinary Science Years 1 and 2. **Offered:** February. **Classes:** 24 lectures. **Assessment:** One 90 minute examination.

A unit of study that predominantly covers the principles of pharmacology and toxicology. Lecture topics include introductory pharmacology, pharmacokinetics, autonomic pharmacology and toxicology and some areas of clinical pharmacology.

Textbooks

Katzung, B.G., *Basic and Clinical Pharmacology*, 7th edn, Appleton and Lange, 1998.
Cooper, B.S., ed., *Antimicrobial Prescribing Guidelines for Veterinarians*, Postgraduate Foundation of Veterinary Science, 1996.
Maddison, J.E., *Therapeutic Update*, 2nd edn, Postgraduate Foundation of Veterinary Science, 1996.

VETS 3034 **Veterinary Pharmacology & Toxicology 3B**

4 credit points
Dr Jill Maddison

Assumed knowledge: Veterinary Science Years 1 and 2 and VETS 3033 Veterinary Pharmacology & Toxicology 3A. **Offered:** July. **Classes:** 30 lectures. **Assessment:** One 90 minute examination, assignments and class performance.

A unit of study including lectures, problem-based tutorials and correlation sessions. The lectures cover the clinical pharmacology of the major drug classes of relevance to veterinary science. The interactive workshops involve case based discussions of clinical pharmacology and related topics. The correlation sessions are run in conjunction with members of other departments in the Faculty to illustrate the interaction of clinical and preclinical disciplines in solving clinical problems.

Textbooks

Katzung, B.G., *Basic and Clinical Pharmacology*, 7th edn, Appleton and Lange, 1998.
Cooper, B.S., ed., *Antimicrobial Prescribing Guidelines for Veterinarians*, Postgraduate Foundation of Veterinary Science, 1996.
Maddison, J.E., *Therapeutic Update*, 2nd edn, Postgraduate Foundation of Veterinary Science, 1996.

VETS 3008 **Veterinary Physiology 3**

7 credit points
Dr David Evans

Prerequisite: Veterinary Science Year 1, VETS 2061 Veterinary Physiology 2A and VETS 2062 Veterinary Physiology 2B. **Assumed knowledge:** VETS 2017 Veterinary Anatomy and Histology 2A, VETS 2027 Veterinary Anatomy and Histology 2B, VETS 2001 Animal Genetics and VETS 2005 Veterinary Embryology. **Offered:** February. **Classes:** 53 lectures and 51 hours of other classes. **Assessment:** One 2 hour examination and assignments.

Topics include the physiology of sensory systems, central nervous system, pain, ruminant digestion and pathophysiology, reproduction, animal welfare, cardiovascular pathophysiology, growth and development, thermoregulation, exercise physiology and normal and abnormal animal behaviour. Classes other than lectures include tutorials, seminars, laboratory work, library research, computer based learning, small-group projects and formative assessment sessions.

Textbooks

Swenson, M.J. and Reece, W.O., eds, *Dukes' Physiology of Domestic Animals*, 11th edn, Cornell University Press, Ithaca, 1993.

VETS 3030 **Veterinary Radiology 3**

1 credit point
Dr David Church

Prerequisite: Veterinary Science Years 1 and 2. **Offered:** July. **Classes:** 10 lectures. **Assessment:** Written examination.

The course will introduce students to the nature and source of X-ray photons, the structure and use of radiographic equipment, how a radiograph of an animal is produced and radiation safety. Aspects of radiation oncology, and the nature of diagnostic ultrasound and how sonographic images are made of animals will also be covered.

Textbooks

Huda, W. and Slone, R.M., *Review of Radiographic Physics*, Williams and Wilkins, Baltimore, 1995.

VETS 3031 **Veterinary Surgery 3**

2 credit points
Dr Geraldine B. Hunt

Prerequisite: Veterinary Science Years 1 and 2. **Offered:** July. **Classes:** 10 lectures and 4x4 hours of practical classes. **Assessment:** Written examination. Ongoing assessment during practical classes and lectures (quiz format).

Introduction to the principles and practice of surgery. Topics to be covered in lectures include preoperative evaluation of the surgical patient; preparing for surgery (surgeon, environment, instruments, patient); maximising the effectiveness of surgery and wound healing; principles of surgical treatment of infection and neoplasia; exploratory laparotomy.

Practical classes provide instruction in basic surgical technique and exploratory laparotomy.

Textbooks

Harari, J., *Textbook of Small Animal Surgery*, Williams and Wilkins, Baltimore, 1996.

Year 4

VETS 4012 **Animal Nutrition 4**

3 credit points
Prof David Fraser

Prerequisite: Veterinary Science Year 3. **Assumed knowledge:** Veterinary Science Year 3. **Offered:** July. **Classes:** 36 lectures. **Assessment:** Examination.

A unit of study on the integration of nutrition with clinical topics and applied nutrition of a variety of animals including horses, dogs, cats, fish, cage birds, laboratory and zoo animals.

VETS 4023 **Applied Reproduction and Obstetrics**

3 credit points
Assoc Prof Gareth Evans

Assumed knowledge: VETS 2061 Veterinary Physiology 2A and VETS 2062 Veterinary Physiology 2B, VETS 1011 Veterinary Anatomy and Histology 1 and VETS 2017 Veterinary Anatomy and Histology 2A and VETS 2027 Veterinary Anatomy and Histology 2B. **Offered:** July. **Classes:** 36 lectures and 1 x 2 hour practical/tutorial class. **Assessment:** One 3 hour written examination and written assignments.

A unit of study concerned with applied aspects of animal reproduction and obstetrics. Topics include the normal patterns of fertility in farm animals, dogs, cats and horses and emphasis is placed on regulation of fertility and management of reproductive disorders. Instruction is provided on pre-partum affections, parturition, dystocia and the affections of the urogenital tract at birth. Practical experience is gained at the University Veterinary Centre, Sydney, and in further formal demonstrations in Fifth Year units of study at the University Veterinary Centre, Camden.

VETS 4014 **Applied Veterinary Anatomy**

2 credit points
Dr Paul Hopwood

Prerequisite: VETS 1011 Veterinary Anatomy and Histology 1, VETS 2017 Veterinary Anatomy and Histology 2A and VETS 2027 Veterinary Anatomy and Histology 2B. **Offered:** February. **Classes:** Twelve 2 hour practical classes. **Assessment:** Written assignments. This unit of study covers the surface anatomy and applied anatomy of the horse and dog.

Practical: Dissection classes.

VETS 4003 Animal Husbandry Practical Report

2 credit points

Assoc Prof Gareth Evans

Prerequisite: Enrolment in the Bachelor of Veterinary Science course. **Assumed knowledge:** VETS 1002 Animal Husbandry 1A and VETS 1003 Animal Husbandry 1B. **Offered:** Summer. **Classes:** Nil. **Assessment:** The work is documented in a practical report which is submitted for assessment in the first week of February Semester, Year 4. A practical skills test will also be conducted at the beginning of Year 4.

Students are required to undertake extramural practical work in animal husbandry. This is to enable them to gain experience in the major animal industries and to master animal handling and manipulative techniques with livestock.

Practical: Extra-mural practical work during vacations Years 1 to 3. Practical requirement period for the following species: horses 28 days, dairy cattle 14 days, beef cattle 14 days, sheep 14 days, pigs 7 days and poultry 7 days with an additional 14 days to be spent at the student's discretion. Students are encouraged to voluntarily gain experience with native fauna, zoo animals, marine animals or other exotic species.

VETS 4018 Veterinary Parasitology 4

4 credit points

Dr Henry Collins

Prerequisite: VETS 3014 Veterinary Parasitology 3. **Offered:** July. **Classes:** 30 lectures and twelve 2 hour practical classes. **Assessment:** Based on compulsory exercises, a group project and final written and practical examinations.

A study of the economically important parasitic diseases of commercial animals: cattle, sheep, goats, pigs, poultry, bees and farmed fish. The unit of study emphasises the importance of clinical and sub-clinical parasitic diseases as constraints on agricultural production and shows how knowledge of the epidemiology of these diseases is used in planning control measures. Educational objectives are used to assist learning; assessment is based on these objectives and comprises a group project, compulsory exercises and final practical and written examinations.

Practical: Laboratory sessions involving recognition of parasites, acquisition of diagnostic skills and completion of compulsory exercises.

Textbooks

No textbook required. Manual: Collins, G.H., Veterinary Parasitology 2, latest edition, available at first class.

VETS 4010 Clinical Practice 4

5 credit points

Dr David Church

Prerequisite: Veterinary Science Years 1 to 3. **Offered:** February, July. **Classes:** 304 hours tuition in clinical practice. **Assessment:** Satisfactory performance is determined by continuous assessment and the satisfactory completion of an adequate case log book documenting cases that each student has been involved with throughout the year.

Clinical practice consists of a total of 12 weeks tuition in clinical medicine and surgery of dogs and cats. Students receive training in a logical approach to the investigation of medical and surgical problems and their management while working within a busy veterinary hospital.

VETS 4006 Veterinary Anaesthesia 4

7 credit points

Ms Merran Govendir and Ms Sanaa Zaki

Prerequisite: Veterinary Science Years 1 to 3. **Offered:** February, July. **Classes:** 16 lectures, 4 x 6 hours of practical classes (in conjunction with surgical practical classes) February Semester. Clinical rotation: 2 weeks during the year. **Assessment:** Assessments are both continuous and by examination, July Semester.

This course involves the planning and implementation of safe anaesthesia for dogs and cats. Incorporating clinical cases from the veterinary teaching hospital, topics for discussion include anaesthesia for common disease conditions, analgesia for the peri-operative period and resuscitation techniques for cardio-respiratory arrest.

Practical classes and clinical rotations encourage students to utilise concepts discussed in lectures and develop the manual

dexterity and confidence required for anaesthetising routine clinical cases.

Textbooks

Produced in department (lecture notes).

VETS 4016 Veterinary Clinical Pathology

5 credit points

Assoc Prof Paul Canfield

Prerequisite: Veterinary Science Years 1 to 3. **Assumed knowledge:** Veterinary Science Years 1 to 3. **Offered:** February, July. **Classes:** 22 lectures and five 3 hour practical classes February Semester; 8 lectures and four 3 hour practical classes July Semester. **Assessment:** Continuous practical assessment both February and July Semesters. Two hour open book written examination July Semester.

A unit of study of lectures, demonstrations, practical classes and seminars during fourth year deals with the practical application of pathological, biochemical, haematological, microbiological and parasitological techniques to clinical aspects of veterinary science.

Practical work includes the examination of specimens taken from living animals by techniques in the above fields. Special attention is given to the application and interpretation of tests used in the diagnosis of disease.

Practical: Case reports and simple laboratory procedures.

VETS 4015 Veterinary Medicine 4

6 credit points

Assoc Prof David Watson

Assumed knowledge: Veterinary Science Years 1 to 3. **Offered:** February, July. **Classes:** 45 lectures and 24 hours of tutorials during the year. **Assessment:** Viva voce examination February Semester. One and a half hour structured objective clinical examination and 3 hour written examination July Semester.

The unit of study commenced in fourth year continues through the two semesters of fourth year. Lectures on diseases of various organ systems constitute the didactic component given in February Semester. The unit of study is based on dogs and cats, with reference to other animal species as necessary.

Textbooks

Nelson, R.W. and Couto, C.G., eds, Small Animal Internal Medicine, 2nd edn, Mosby, 1998.

VETS 4009 Veterinary Radiology 4

5 credit points

Dr David Church

Prerequisite: Veterinary Science Years 1 to 3. **Offered:** February, July. **Classes:** 12 lectures and 48 hours of clinical instruction in various aspects of diagnostic imaging. **Assessment:** Written examination July Semester (60%) and clinical rotation (40%).

The course covers the radiographic appearance of the normal structure and function of the various organ systems 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 the soft tissues will also be covered.

Textbooks

Thrall, D.E., Textbook of Veterinary Diagnostic Radiology, W.B. Saunders Company, Philadelphia, 1998.

VETS 4017 Veterinary Surgery 4

6 credit points

Dr Geraldine B. Hunt

Prerequisite: Veterinary Science Years 1 to 3. **Offered:** February, July. **Classes:** 39 lectures (29 soft tissue and 9 orthopaedics), 4 x 6 hours of practical classes February Semester; 12 lectures and 4 x 6 hours of practical classes July Semester. **Assessment:** Viva voce examination and quiz February Semester, written examination July Semester, ongoing assessment during practical classes and lectures (quizzes).

Lectures, demonstrations and practical classes addresses the principles and practice of soft tissue and orthopaedic surgery in companion animals using an integrated, systems and problem-

based approach. Practical classes provide instruction and practice in basic procedures such as gastrointestinal biopsy and resection, cystotomy, desexing, ophthalmic surgery, fracture fixation, cruciate repair and other common surgical procedures.

Students assist in surgery, surgical decision making and after care as part of their clinical rotation.

Textbooks

Brinker, W.O., et al., Handbook of Small Animal Orthopaedics and Fracture Treatment, Saunders, 1990.

Fossum, T.W., Small Animal Surgery, Mosby, St Louis, 1997.

Harari, J., Textbook of Small Animal Surgery, Williams and Wilkins, Baltimore, 1996.

Piermattei, D.L. and Greeley, R.G., An Atlas of Surgical Approaches to the Bones of the Dog and Cat, Saunders, 1979.

Year 5

VETS 5002 Bird Health and Production

5 credit points

Assoc Prof Garry Cross

Prerequisite: Veterinary Science Years 1 to 4. **Assumed**

knowledge: Veterinary Science Years 1 to 4. **Offered:** July.

Classes: 38 lectures and 44 hours of practical classes.

Assessment: Written and practical examinations.

The aim is to develop knowledge and skill in bird medicine. Emphasis is placed on the epidemiology, management and preventive medicine of intensive and extensive bird populations. There is a series of lectures on specific aspects of broiler and layer management. Special presentations are given on rehabilitation and wildfowl, ratite and raptor medicine and surgery. To complete the unit of study each student will need to obtain at least 50% in the final written examination. Students will be assessed during practical sessions on practical skills, knowledge, participation and presentation.

Practical: Conducted within department.

Textbooks

Produced in department (lecture notes).

VETS 5014 Cattle Health and Production

7 credit points

Dr Tony English

Prerequisite: Veterinary Science Years 1 to 4. **Assumed**

knowledge: Veterinary Science Years 1 to 4. **Offered:** February.

Classes: 63 lectures and 62 hours of practical classes.

Assessment: One 3 hour written examination.

The unit of study in cattle health and production is an integration of material presented by the Departments of Animal Science and Veterinary Clinical Sciences. The aim is to enable new graduates to participate effectively in all aspects of cattle practice including cattle medicine, herd medicine and reproduction including artificial breeding and production. The lectures cover the medicine of systems, generalised and metabolic diseases and deficiency states. A major aim is to develop an understanding of the balance between consideration of the individual cow or calf and the herd. The close links between medicine and production must be appreciated. The methods by which disorders in herds are investigated will be covered.

The clinical nutrition of calves, dairy, extensive beef and feedlot beef cattle will be discussed in relation to tropical, temperate and sub-tropical environments. The interactions between nutrition, disease and reproduction will be examined and the impacts of nutrition on economic performance will be outlined. There will be a strong emphasis on the integration of agronomic systems with cattle health and profitability. The strategies for integrating supplementary feeding strategies with pasture management will be emphasised. The impacts of nutritional strategies on milk quality will be emphasised in 2 lectures dealing with factors influencing milk quality.

The objectives of the reproduction section are to produce a graduate who understands and can apply methods of oestrus synchrony and manipulation of fertility, who understands and has some familiarity with embryo transfer and who is capable of delivering cost-effective reproductive management programs to dairy farmers.

Textbooks

Radostits, O.M., et al., Veterinary Medicine, 8th edn, Bailliere Tindall, 1994.

VETS 5010 Clinical Practice 5

10 credit points

Assoc Prof David Hodgson

Prerequisite: Veterinary Science Years 1 to 4. **Assumed**

knowledge: Veterinary Science Years 1 to 4. **Offered:** February, July. **Classes:** 290 hours of practical work at the UVCC.

Assessment: Continual assessment 80% February and July Semesters. Viva voce examination 20% July Semester.

Clinical Practice integrates knowledge from lectures in earlier units of study in the management of cases and dealing with clients. This will occur under supervision of staff at the University Veterinary Centre, Camden (UVCC). The UVCC and its laboratory provide experience in the management of a wide range of disease problems in companion and large animals. Students also participate in herd health services provided to local dairy producers.

Continuing assessment will account for 80% of the allocated mark and each student will be assessed after each rotation of work at the UVCC. This assessment will be based on clinical knowledge, management of case records, attitude towards, and interest in the work undertaken at the UVCC and professionalism (client and colleague relationships). At the time of the July semester examinations each student will be examined viva voce and this will account for 20% of the mark.

Students will be expected to participate in rostered after hours activities as a requisite component of this course of study. During this period students will be required to live in close proximity to the UVCC.

Practical: 290 hours.

VETS 5017 Essay

1 credit point

Associate Dean, Camden Campus

Offered: February, July. **Assessment:** Essay.

Students must satisfactorily complete an essay during the undergraduate course. The latest time acceptable for nomination and Faculty approval of the topic is the Friday before the mid-semester break in July Semester of fourth year. Essays must be typewritten and submitted by the Friday of the first week of July Semester in fifth year. However, earlier submission is recommended. Guidelines for the essay are available from the Faculty Office.

VETS 5030 Horse Medicine

5 credit points

Assoc Prof David Hodgson

Prerequisite: Veterinary Science Years 1 to 4. **Assumed**

knowledge: Veterinary Science Years 1 to 4. **Offered:** February,

July. **Classes:** 24 lectures and 14 hours of practical classes

February Semester; 6 lectures and 16 hours of practical classes

July Semester. **Assessment:** Written examination February

Semester. Viva voce examination July Semester.

Equine medicine is presented as lectures, practical classes and by participation in clinical practice. These lectures cover medical problems in all the major body systems including equine reproduction and are presented using an approach which highlights major problems in equine medicine. Practical classes in equine musculoskeletal disorders, gastro intestinal and respiratory diseases, reproduction, ophthalmology and neurology are held at the Faculty Horse unit in Cobbitty.

Practical: 14 hours horse medicine practical classes in association with the practical classes in VETS 5005 Veterinary Surgery 5 (Equine) February Semester and 16 hours equine reproduction practical classes July Semester.

Textbooks

Blood, D.C., et al., Veterinary Medicine, 8th edn, Bailliere Tindall, 1994.

Brown, C.M., Problems in Equine Medicine, Lea and Febiger, 1990.

Colahan, P.T., et al., Equine Medicine and Surgery, 5th edn, American Veterinary Publications, 1999.

Hodgson, D.R. and Rose, R.J., The Athletic Horse, W.B. Saunders, 1994.

Koterba, A.M., et al., Equine Clinical Neonatology, Lea and Febiger, 1990.
Mayhew, I.G., Large Animal Neurology, Lea and Febiger, 1989.
Robinson, N.E., Current Therapy in Equine Medicine, Vol. 4, W.B. Saunders, 1997.
Rose, R.J. and Hodgson, D.R., Manual of Equine Practice, 2nd edn., W.B. Saunders, 1999.
Smith, B.R., Large Animal Internal Medicine, Vol. 2, Mosby, 1996.
White II, N.A., The Equine Acute Abdomen, Lea and Febiger, 1990.

VETS 5016 Pig Health and Production

4 credit points
Assoc Prof Robert Love

Prerequisite: Veterinary Science Years 1 to 4. **Assumed knowledge:** Veterinary Science Years 1 to 4. **Offered:** July. **Classes:** 33 lectures and 44 hours of practical classes. **Assessment:** 2 hour examination.

The lectures are presented in a sequence following the three phases of production: reproduction, birth to weaning and weaning to marketing. The aim of the lectures is to highlight the common problems of pig medicine and production. Practical classes are aimed at providing the necessary understanding and skills for pig practice.

The emphasis of the unit of study is on managing endemic disease and preventive medicine. Welfare of intensively housed pigs is also given consideration.

Textbooks

Leman, A.D., et al., Diseases of Swine, 7th edn, Iowa State University Press, 1993.

VETS 5009 Sheep Health and Production

6 credit points
Dr Kym Abbott

Prerequisite: Veterinary Science Years 1 to 4. **Assumed knowledge:** Veterinary Science Years 1 to 4. **Offered:** February. **Classes:** 40 lectures and 60 hours of practical classes. **Assessment:** One 3 hour examination plus continuous assessments in practical classes.

The unit of study aims to develop skills and knowledge appropriate for a rural practitioner dealing with the more common disease conditions on commercial sheep farms and with controlled breeding programs. Strong emphasis is placed on disease management of flocks rather than individual animals and preventive medicine in an economic context rather than therapy of affected animals.

Nutrition: nutritional management in temperate environments, nutrient content of natural and improved pastures, strategies of supplementary feeding, use of computers in formulating nutritional advice. Reproduction: disorders of reproduction and methods of investigating poor reproductive performance, control of reproduction, artificial breeding, collection, evaluation, handling and preservation of semen, multiple ovulation and embryo transfer including the preparation of donors and recipients and the evaluation and handling of embryos. Genetics: application to commercial sheep production and to evaluation of controlled breeding strategies. Disease management: epidemiology and preventive medicine of internal and external parasites; diagnosis, control and, where appropriate, eradication of diseases from individual flocks; integration of animal health management with optimal farm management procedures.

VETS 5018 Special Medicine

1 credit point
Dr Robert Dixon

Prerequisite: Veterinary Science Years 1 to 4. **Assumed knowledge:** Veterinary Science Years 1 to 4. **Offered:** July. **Classes:** Estimate - 25 lectures. **Assessment:** The assessment will be 30% assignment mark and 70% formal examination. There are two parts to this unit of study which comprises lectures, tutorials and assignments.

1. Clinical toxicology: the important toxicological disorders of ruminants, horses and pigs are presented with the emphasis on clinical signs, necropsy findings and epidemiology.

2. Exotic diseases: diseases which represent an external threat to the livestock industries of Australia are covered. Aspects studied include not only clinical and necropsy findings of the significant diseases but also quarantine and the responsibilities of veterinarians in an animal disease emergency.

VETS 5004 Veterinary Public Health

3 credit points
Dr Jennifer Hodgson

Prerequisite: Veterinary Science Years 1 to 4. **Assumed knowledge:** Veterinary Science Years 1 to 4. **Offered:** July. **Classes:** 48 lectures. **Assessment:** Written examination. Assessment is evaluated as follows: principles of epidemiology 25%, food quality and hygiene 25%, zoonoses 25% and legal and ethical bases 25%.

There are four components of this unit of study - principles of epidemiology, food quality and hygiene, the zoonoses and the legal and ethical bases of veterinary work. The objective is to make undergraduates aware of their potential for contributing directly to human welfare through controlling diseases of animals transmissible to people and through provision of high quality food. Understanding the obligations imposed by the community through acts and regulations and the self-imposed obligations arising from membership of a learned profession is an essential outcome of the unit of study.

Practical: Abattoir experience.

Textbooks

Andricsson, E.H., Meat Safety Quality and Veterinary Public

Health in Australia, Penny Farthing Publishing Services, Port Adelaide, 1998.

Epidemiological Skills, Animal Health Proceedings No. 143, Postgraduate Committee in Veterinary Science, The University of Sydney, 1990.

Stevenson, W.J. and Hughes, K.L., Synopsis of Zoonoses in Australia, 2nd edn., Australian Government Publishing Service, Canberra, 1988.

Veterinary Surgeons Act, 1987.

VETS 5005 Veterinary Surgery 5

6 credit points
Mr David Simpson

Prerequisite: Veterinary Science Years 1 to 4. **Assumed knowledge:** Veterinary Science Years 1 to 4. **Offered:** February, July. **Classes:** 20 lectures and 28 hours of practical classes February Semester; 28 hours of practical classes July Semester. **Assessment:** Written examination on equine surgery, plus a practical examination on equine clinical examination and diagnosis February Semester. Oral examination on large animal obstetrics and large animal anesthesia July Semester.

In fifth year the surgery unit of study consists of lectures or seminars on special features of surgery, radiology and anaesthesia and practical instruction. The practice of surgical and obstetrical techniques under supervision, and preparation of companion and production animals for surgery and their after-care in the University Veterinary Centre, Camden, continues throughout the year.

Students are expected to reach a standard of skill enabling them to control, examine and make clinical diagnoses and undertake the treatment of the common diseases found in general practice. A three week period of practical participation in the out-patients and in-patients departments of the University Veterinary Centre, Sydney, combined with three weeks in the University Veterinary Centre, Camden, and periods spent with veterinary practitioners engaged in general practice, provide opportunities to reach the standard required at graduation.

Practical: Basically the unit of study will be supplemented by practical work undertaken in the University Veterinary Centre, Camden, and private practice.

Textbooks

Rose, R.J. and Hodgson, D.R., Manual of Equine Practice, Saunders, 1993.

Bachelor of Science (Veterinary) units of study

VETS 4031 Veterinary Research

48 credit points

Dr Herman Raadsma

Prerequisite: Veterinary Science Years 1, 2 and 3 or 1,2,3 and 4.

Assumed knowledge: Veterinary Science Years 1-3 or 1-4.

Offered: February, July. Classes: No lectures or other classes.

Assessment: Thesis, oral presentation and oral examination.

In this unit students undertake a period of supervised research in a topic in Veterinary Science.

VETS 4033 Veterinary Research

48 credit points

Dr Herman Raadsma

Prerequisite: Veterinary Science Years 1, 2 and 3 or 1, 2, 3 and 4.

Assumed knowledge: Veterinary Science Years 1-3 or 1-4.

Offered: February, July. Classes: No lectures or other classes.

Assessment: Thesis, oral presentation and oral examination.

In this unit students undertake a period of supervised research in a topic in Veterinary Science.

VETS 4035 Veterinary Research

48 credit points

Dr Herman Raadsma

Prerequisite: Veterinary Science Years 1, 2 and 3 or 1, 2, 3 and 4.

Assumed knowledge: Veterinary Science Years 1-3 or 1-4.

Offered: February, July. Classes: No lectures or other classes.

Assessment: Thesis, oral presentation and oral examination.

In this unit students undertake a period of supervised research in a topic in Veterinary Science.

VETS 4039 Veterinary Research

48 credit points

Dr Herman Raadsma

Prerequisite: Veterinary Science Years 1, 2 and 3 or 1,2,3 and 4.

Assumed knowledge: Veterinary Science Years 1-3 or 1-4.

Offered: February, July. Classes: No lectures or other classes.

Assessment: Thesis, oral presentation and oral examination.

In this unit students undertake a period of supervised research in a topic in Veterinary Science.

CHAPTER 4

Table of units of study

Bachelor of Veterinary Science

Unit of study	Credit points;	A) Assumed Knowledge C) Corequisite	Q) Qualifying N) Prohibition	P) Prerequisite	Offered
Year 1					
February semester					
VETS 1006 Animal Husbandry 1A	5				<i>February</i>
VETS 1013 Cell Biology 1A	4	A) See UAC Handbook.			<i>February</i>
CHEM 1405 Chemistry	6	A) Chemistry 2 Unit or the Chemistry component of 3/4 Unit Science HSC courses.			<i>February</i>
VETS 1021 Professional Practice 1A	3				<i>February</i>
VETS 1014 Veterinary Anatomy & Physiology 1A	6				<i>February</i>
July semester					
VETS 1019 Animal Husbandry 1B	7				<i>July</i>
VETS 1018 Cell Biology 1B	6	A) VETS 1013 Cell Biology 1A.			<i>July</i>
VETS 1017 Professional Practice 1B	3	A) VETS 1021 Professional Practice 1A.			<i>July</i>
VETS 1020 Veterinary Anatomy & Physiology 1B	8				<i>July</i>
Year 2					
February semester					
VETS 2001 Animal Genetics	3				<i>February</i>
VETS 2031 Biochemistry 2A	3				<i>February</i>
VETS 2017 Veterinary Anatomy and Histology 2A	8	A) VETS 1011 Veterinary Anatomy and Histology 1 and VETS 1005 Veterinary Cytology. P) VETS 1011 Veterinary Anatomy and Histology 1 and VETS 1005 Veterinary Cytology.			<i>February</i>
VETS 2005 Veterinary Embryology	4	A) VETS 1011 Veterinary Anatomy and Histology 1 and VETS 1005 Veterinary Cytology.			<i>February</i>
VETS 2061 Veterinary Physiology 2A	6	A) Veterinary Science Year 1.			<i>February</i>
July semester					
VETS 2032 Biochemistry 2B	5	A) VETS 2031 Biochemistry 2A.			<i>July</i>
VETS 2027 Veterinary Anatomy and Histology 2B	9	A) VETS 1011 Veterinary Anatomy and Histology 1 and VETS 1005 Veterinary Cytology.			<i>July</i>
VETS 2025 Veterinary Pathology 2	4	A) Veterinary Science Year 1. P) Veterinary Science Year 1.			<i>July</i>
VETS 2062 Veterinary Physiology 2B	6	A) Veterinary Science Year 1 and VETS 2061 Veterinary Physiology 2A.			<i>July</i>
Year 3					
February semester					
VETS 3001 Veterinary Microbiology 3A	5	A) VETS 2025 Veterinary Pathology 2, VETS 2001 Animal Genetics. P) Veterinary Science Years 1 and 2.			<i>February</i>

Bachelor of Veterinary Science - continued

Unit of study	Credit points	A) Assumed Knowledge C) Corequisite	Q) Qualifying N) Prohibition	P) Prerequisite	Offered
VETS 3014 Veterinary Parasitology 3	4				February
VETS 3004 Veterinary Pathology 3	6	A) VETS 2025 Veterinary Pathology 2 and Veterinary Science Year 2. P) Veterinary Science Year 2.			February
VETS 3008 Veterinary Physiology 3	7	A) VETS 2017 Veterinary Anatomy and Histology 2A, VETS 2027 Veterinary Anatomy and Histology 2B, VETS 2001 Animal Genetics and VETS 2005 Veterinary Embryology. P) Veterinary Science Year 1, VETS 2061 Veterinary Physiology 2A and VETS 2062 Veterinary Physiology 2B.			February
VETS 3033 Veterinary Pharmacology and Toxicology 3A	2	A) Veterinary Science Years 1 and 2.			February
July semester					
VETS 3010 Animal Nutrition 3	4	A) Veterinary Science Years 1 and 2.			July
VETS 3029 Veterinary Anaesthesia 3	1	P) Veterinary Science Years 1 and 2.			July
VETS 3024 Veterinary Medicine 3	4	A) February Semester Year 3. P) Veterinary Science Years 1 and 2.			July
VETS 3003 Veterinary Microbiology 3B	8	A) VETS 3001 Veterinary Microbiology 3A. P) Veterinary Science Years 1 and 2.			July
VETS 3034 Veterinary Pharmacology & Toxicology 3B	4	A) Veterinary Science Years 1 and 2 and VETS 3033 Veterinary Pharmacology & Toxicology 3A.			July
VETS 3030 Veterinary Radiology 3	1	P) Veterinary Science Years 1 and 2.			July
VETS 3031 Veterinary Surgery 3	2	P) Veterinary Science Years 1 and 2.			July
Year 4					
Year-long units of study					
VETS 4010 Clinical Practice 4	5	P) Veterinary Science Years 1 to 3.			February, July
VETS 4006 Veterinary Anaesthesia 4	7	P) Veterinary Science Years 1 to 3.			February, July
VETS 4016 Veterinary Clinical Pathology 5	5	A) Veterinary Science Years 1 to 3. P) Veterinary Science Years 1 to 3.			February, July
VETS 4015 Veterinary Medicine 4	6	A) Veterinary Science Years 1 to 3.			February, July
VETS 4009 Veterinary Radiology 4	5	P) Veterinary Science Years 1 to 3.			February, July
VETS 4017 Veterinary Surgery 4	6	P) Veterinary Science Years 1 to 3.			February, July
February semester					
VETS 4014 Applied Veterinary Anatomy 2	2	P) VETS 1011 Veterinary Anatomy and Histology 1, VETS 2017 Veterinary Anatomy and Histology 2A and VETS 2027 Veterinary Anatomy and Histology 2B.			February
VETS 4003 Animal Husbandry Practical Report	2	A) VETS 1002 Animal Husbandry 1A and VETS 1003 Animal Husbandry IB. P) Enrolment in the Bachelor of Veterinary Science course.			Summer
July semester					
VETS 4012 Animal Nutrition 4	3	A) Veterinary Science Year 3. P) Veterinary Science Year 3.			July
VETS 4023 Applied Reproduction and Obstetrics 3	3	A) VETS 2061 Veterinary Physiology 2A and VETS 2062 Veterinary Physiology 2B, VETS 1011 Veterinary Anatomy and Histology 1 and VETS 2017 Veterinary Anatomy and Histology 2A and VETS 2027 Veterinary Anatomy and Histology 2B.			July
VETS 4018 Veterinary Parasitology 4	4	P) VETS 3014 Veterinary Parasitology 3.			July

Bachelor of Veterinary Science - continued

Unit of study	Credit points	A) Assumed Knowledge C) Corequisite	Q) Qualifying N) Prohibition	P) Prerequisite	Offered
Year 5					
Year-long units of study					
VETS 5010 Clinical Practice 5	10	A) Veterinary Science Years 1 to 4. P) Veterinary Science Years 1 to 4.			February, July
VETS 5017 Essay	1				February, July
VETS 5030 Horse Medicine	5	A) Veterinary Science Years 1 to 4. P) Veterinary Science Years 1 to 4.			February, July
VETS 5005 Veterinary Surgery 5	6	A) Veterinary Science Years 1 to 4. P) Veterinary Science Years 1 to 4.			February, July
February semester					
VETS 5014 Cattle Health and Production	7	A) Veterinary Science Years 1 to 4. P) Veterinary Science Years 1 to 4.			February
VETS 5009 Sheep Health and Production	6	A) Veterinary Science Years 1 to 4. P) Veterinary Science Years 1 to 4.			February
July semester					
VETS 5002 Bird Health and Production	5	A) Veterinary Science Years 1 to 4. P) Veterinary Science Years 1 to 4.			July
VETS 5016 Pig Health and Production	4	A) Veterinary Science Years 1 to 4. P) Veterinary Science Years 1 to 4.			July
VETS 5018 Special Medicine	1	A) Veterinary Science Years 1 to 4. P) Veterinary Science Years 1 to 4.			July
VETS 5004 Veterinary Public Health	3	A) Veterinary Science Years 1 to 4. P) Veterinary Science Years 1 to 4.			July

Bachelor of Science (Veterinary)

Unit of study	Credit points;	A) Assumed Knowledge C) Corequisite	Q) Qualifying N) Prohibition	P) Prerequisite	Offered
VETS 4031 Veterinary Research	48			A) Veterinary Science Years 1-3 or 1-4. P) Veterinary Science Years 1, 2 and 3 or 1,2,3 and 4.	February, July
VETS 4033 Veterinary Research	48			A) Veterinary Science Years 1-3 or 1-4. P) Veterinary Science Years 1, 2 and 3 or 1,2,3 and 4.	February, July
VETS 4035 Veterinary Research	48			A) Veterinary Science Years 1-3 or 1-4. P) Veterinary Science Years 1, 2 and 3 or 1,2,3 and 4.	February, July
VETS 4039 Veterinary Research	48			A) Veterinary Science Years 1-3 or 1-4. P) Veterinary Science Years 1, 2 and 3 or 1,2,3 and 4.	February, July

Regulations

1. 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% or greater) members of the tenured, tenurable and fixed term teaching staff of Departments within the Faculty;
- (b) the Heads of Departments of Biochemistry and Pharmacology, together with one full-time tenured member of each of these Departments nominated by the Head of Department;
- (c) the Heads of the Schools of Biological Sciences, Chemistry and Physics, 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;
- (d) the Principal of the Orange Agricultural College and Deans of non-veterinary faculties in the College of Sciences and Technology;
- (e) the Directors of Laboratory Animal Services and the Properties and Investments Office;
- (f) up to three persons distinguished in the field of Veterinary Science appointed by the Faculty on the nomination of the Dean of the Faculty;
- (g) up to three students (two undergraduates and one postgraduate) elected in the manner prescribed by resolution of the Senate;
- (h) up to three members of the general staff elected by the general staff in the manner laid down by the Faculty;
- (i) one nominee from each of the Australian College of Veterinary Scientists and the Australian Veterinary Association;
- (j) the Directors of the Postgraduate Foundation in Veterinary Science, the Dairy Research Foundation, the Poultry Research Foundation and the J. D. Stewart Veterinary Science Foundation;
- (k) the research staff of the Faculty, being full-time or fractional (50% or greater), holding the position of Research Fellow or above;
- (l) Senior Registrars and Registrars, being full-time or fractional (50% or greater) employed in the University Veterinary Centres at Camden and Sydney;
- (m) persons holding Adjunct or Clinical titles within the Faculty; and
- (n) 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.

2. Degrees and diplomas 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) Master of Veterinary Science (MVSc)
 - (d) Master of Veterinary Clinical Studies (MVetClinStud)
 - (e) Master of Science in Veterinary Science (MScVetSc)
 - (f) Master of Veterinary Studies (MVetStud)
 - (g) Doctor of Philosophy (PhD)
 - (h) Doctor of Veterinary Science (DVSc).
2. The diplomas in the Faculty of Veterinary Science shall be:
 - (a) Graduate Diploma in Veterinary Clinical Studies (GradDipVetClinStud)

- (b) Graduate Diploma in Laboratory Animal Science (GradDipLabAnimSc)
- (c) Graduate Diploma in Veterinary Science (GradDipVetSc).

Bachelor of Veterinary Science, BVSc

The requirements for the degree of Bachelor of Veterinary Science are set out in the resolutions of the Senate of the University.

1. Candidates for the degree of Bachelor of Veterinary Science shall complete the following units of study:
 - (i) In the first year
 - Animal Husbandry 1A
 - Animal Husbandry 1B
 - Chemistry
 - Cell Biology 1A
 - Cell Biology 1B
 - Professional Practice 1A
 - Professional Practice 1B
 - Veterinary Anatomy and Physiology 1A
 - Veterinary Anatomy and Physiology 1B
 - (ii) In the second year
 - Veterinary Anatomy and Histology 2A
 - Veterinary Anatomy and Histology 2B
 - Veterinary Embryology
 - Veterinary Physiology 2A
 - Veterinary Physiology 2B
 - Biochemistry 2A
 - Biochemistry 2B
 - Animal Genetics
 - Veterinary Pathology 2
 - (iii) In the third year
 - Animal Nutrition 3
 - Veterinary Physiology 3
 - Veterinary Pathology 3
 - Veterinary Microbiology 3A
 - Veterinary Microbiology 3B
 - Veterinary Pharmacology and Toxicology 3A
 - Veterinary Pharmacology and Toxicology 3B
 - Veterinary Medicine 3
 - Veterinary Surgery 3
 - Veterinary Anesthesia 3
 - Veterinary Radiology 3
 - Veterinary Parasitology 3
 - (iv) In the fourth year
 - Veterinary Radiology 4
 - Animal Nutrition 4
 - Applied Reproduction and Obstetrics
 - Applied Veterinary Anatomy
 - Veterinary Clinical Pathology
 - Veterinary Medicine 4
 - Veterinary Surgery 4
 - Veterinary Anesthesia 4
 - Veterinary Parasitology 4
 - Animal Husbandry Practical Report
 - Clinical Practice 4
 - (v) In the fifth year
 - Bird Health and Production
 - Essay
 - Horse Medicine
 - Pig Health and Production
 - Cattle Health and Production
 - Sheep Health and Production
 - Special Medicine
 - Veterinary Public Health
 - Veterinary Surgery 5
 - Clinical Practice 5
2. A unit of study shall consist of lectures, together with such clinical, laboratory and tutorial instructions, practical work, exercises and essays as may be prescribed by the Faculty. In these resolutions, 'to complete a unit of study' and derivative expressions mean:

- (a) to attend the lectures and seminars, if any, for clinical, laboratory or tutorial instructions;
 - (b) to complete satisfactorily the practical work, exercises and essays, if any; and
 - (c) to pass the examinations, if any, in the unit of study.
3. Class examinations may be held during each unit of study in each semester; students shall not absent themselves from these examinations except upon production of a medical certificate. A report of the results signed by the responsible teacher shall be presented to the Dean and may be taken into account at the annual examinations.
 4. (1) An examination may be held for each of the prescribed units of study for the course.
(2) At each examination, a candidate shall be required to give proof of his or her knowledge by written answers to the questions set, and if required also by practical or viva voce examination or both.
 5. 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.
 6. A candidate for the degree may enrol in the units of study prescribed for the fourth or subsequent years of candidature only after having demonstrated proficiency in the safe handling of animals, in such a manner as may from time to time be prescribed by the Faculty.
 7. During the fifth year, candidates shall be required to spend such periods in residence at the University of Sydney Farms as the Faculty may from time to time determine.
 8. Before admission to the course for the degree of Bachelor of Veterinary Science, candidates shall be required to complete such practical clinical work as may from time to time be prescribed by the Faculty.
 9. Before admission to the course for the degree of Bachelor of Veterinary Science, each candidate shall be required to produce evidence of having spent such periods as may be specified by the Faculty in gaining approved practical experience in animal management.
 10. (1) First and Second Class Honours may be awarded at graduation.
(2) Results obtained in annual examinations shall determine whether a candidate qualifies for the award of Honours.
(3) Honours shall not be awarded to a candidate who has taken longer to complete the course than the minimum period in which a candidate may complete a degree of Bachelor of Veterinary Science.
(4) Notwithstanding the provisions of subsection (3) of this section, the Faculty, for special reasons, may permit the award of Honours to a candidate who has taken longer to complete the course than the period specified in that subsection.
(5) If a candidate graduates with First Class Honours and the Faculty is of the opinion that the candidate's work is of sufficient merit, the candidate shall receive a bronze medal.

Award of honours

A system of Weighted Average Marks (WAM) is used as a measure of academic performance each year. The formula used to calculate the WAM is:

$$WAM = \frac{\sum(W_v \times M)}{\sum(W_v)}$$

where \sum is the sum, W_v is the weighted unit value and M is the mark achieved out of 100. Only the first attempt at each unit is included, except where discontinued with permission. Where an exemption is granted from a unit, the mark used for the calculation of the WAM is the mean mark of contemporary students in that unit.

Resolutions of the Senate of the University governing award of honours at graduation have already been outlined. The Faculty would expect a candidate to achieve a WAM of at least 65 per cent to qualify for Second Class Honours, 70 per cent for First Class Honours, and 75 per cent for Honours I and the University Medal. Note that, in general, Honours are not

awarded to students who have not completed the course in minimum time.

Bachelor of Science (Veterinary), BSc(Vet)

The opportunity exists for suitably qualified students who have completed three or more years of the B VSc course to interrupt their formal studies for one year to take part in the research of the Faculty and work for the BSc(Vet) course. Many students have done so and have found the experience enjoyable and rewarding. Candidates for the BSc(Vet) work in one or more of the departments of the Faculty and are supervised by a member of the Faculty. They are expected to complete the requirements for the degree during one calendar year.

A wide range of research is undertaken in the Faculty and it would not be difficult for most students to find an area of interest. However it is essential to have had adequate prerequisite training in the scientific field chosen for advanced study. Insufficient training may preclude enrolment in some areas. The Dean and other members of staff will be able to provide advice on this point.

Students wishing to be considered for enrolment for the BSc(Vet) course should consult members of the department in which they propose to study and should lodge an application for enrolment with the Faculty Office. Applications for candidature are to be considered at the December meeting of the Board of Examiners of the Faculty. It is necessary to have all the arrangements completed well before applying to enrol, preferably before the annual examinations for the BVSc. Prospective candidates are therefore encouraged to begin their consultation with staff early in July semester.

The purpose of the course is principally to impart experience and skills in scientific research. Candidates will gain experience in experimentation and in the oral and written presentation of scientific results. The development of these skills will be assessed in four ways. Firstly, each candidate, after consultation with his or her supervisor and after appropriate study of the literature, will give a short, informal, small group seminar to outline the proposed research project. This seminar enables helpful comments and suggestions to be incorporated into the research plan. Secondly, after the research has been completed, candidates will give a further seminar to present the results and conclusions of their work. Thirdly, a written account of the research, in the form of a dissertation, should be lodged in the Faculty Office by the end of November and no later than the end of December in the year in which the work is done. Late submission will normally disqualify a candidate from consideration for First Class Honours for the award of the BSc(Vet) degree.

The dissertation will be assessed by two examiners who will also question the candidate on the topic of the research in the fourth assessment process, a viva voce examination. These four assessments are intended not only to evaluate the standard of achievement but also to provide students with additional opportunities to learn the various skills of presentation of the results of scientific research.

The dissertation represents 70%, the viva voce examination 20% and the final seminar 10% of the marks for the assessment for the award of the degree. If the dissertation is submitted before the end of November, it is possible for successful candidates to receive the degree at the graduation ceremony in December.

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

First Class	80-100
Second Class/Division 1	75-79
Second Class/Division 2	70-74
Third Class	65-69
Honours not awarded	less than 65

A list of some recent projects is given below as a guide to some of the areas in which candidates have worked. Areas of possible candidature change regularly and intending

candidates are advised to consult with the Dean and other staff. The resolutions of the Senate and the Faculty concerning the degree follow.

Recent projects have included: 'An investigation of the involvement of the MHC in resistance to footrot in sheep using R.F.L.R techniques', 'Adaptations of equine skeletal muscle to different training intensities', 'Immunology of mange caused by *Trixacarus caviae* in guinea pigs', and 'Pathologic and sonographic studies of equine tendons and ligaments'.

Resolutions of the Senate

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). Candidates for the Degree of Bachelor of Science (Veterinary) shall complete the following unit of study: Veterinary Research VETS 4033, VETS 4039, VETS 4031 or VETS 4035.
2. The course of advanced study and research shall be in a field of scientific investigation for which adequate prerequisite training has been obtained and for which appropriate supervision and facilities are available.
3. Applications for admission to candidature for the degree of Bachelor of Science (Veterinary) may be approved by the Dean on behalf of the Board of Examiners.
4. Each candidate shall be supervised by a member of Faculty and, if it is considered appropriate to the field of the work, by one or more associate supervisors as well.
5. Assessment and examination for the award of the degree shall be by dissertation, oral examination and presentation of seminars.
6. A candidature may be terminated at any time by the Dean if, in the opinion of the supervisor and the Associate Dean concerned with the course, the candidate's work is unsatisfactory.

Resolutions of the Faculty

1. The responsibility for overseeing the implementation of the Faculty's academic policies concerning the degree is to lie with the Board of Examiners of the Faculty which will act through the Dean on the advice of the Associate Dean for Research.
2. The responsibility for supervision of the administrative procedures concerned with the degree will lie with the Associate Dean and members of the Research Committee, who will act and report through the Dean to the Board of Examiners and, if requested, to the Faculty.
3. The minimum acceptable qualifications for the supervisor of a candidate for the degree is an appropriate higher degree.
4. In response to an application for candidature, the Associate Dean for Research will, in consultation with the candidate, the proposed supervisor and the head(s) of the department(s) or school(s) in which the work is to be undertaken, 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.
5. Recommendations for approval of each candidature will be made by the Associate Dean for Research through the Dean to the Board of Examiners in a report describing:
 - (a) the name of the candidate;
 - (b) the field of study;

- (c) the nominated supervisor and, if applicable, the associate supervisor(s);
- (d) where the work will be undertaken; and
- (e) any special circumstances surrounding the candidature.
6. The Research Committee will, in respect of all candidatures,
 - (a) maintain an overview of the examinations of all candidates;
 - (b) organise the implementation of the Faculty's policies on examination of candidates;
 - (c) maintain an overview of the standards achieved and the grades awarded in examinations; and
 - (d) report, to the Board of Examiners, the grades awarded to all candidates.
7. The assessment and examination procedures are defined as follows:
 - (a) Each candidate, in the presence of one or more members of the Research 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 Research 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 November, recommended by the Research Committee and approved by the Board of Examiners. Late submission will normally disqualify a candidate from consideration for Honours Class I 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 dissertation shall be examined by two examiners, at least one of whom should normally be from outside the department in which the work was done and neither of whom should normally be a supervisor of the candidate.
 - (e) Each candidate shall be examined on the topic of the dissertation at a viva voce examination conducted by the two examiners. Members of the Research Committee and the supervisor(s) may attend this examination.
 - (f) The examiners shall separately write reports giving their assessment of the dissertation and making separate recommendations to the Associate Dean concerned with Research. The examiners shall propose a joint mark and write a joint report on the viva voce examination.
 - (g) The dissertation is to represent 70%, the viva voce examination 20%, and the assessment of the final seminar 10% of the total assessment for the award of the degree.
8. 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.
9. If a grade is less than 50%, the degree will not be awarded.
10. Matters of policy concerning the degree are to be determined by the Faculty with such advice as it may wish to seek from time to time.
11. 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.

Regulations

Discontinuation of enrolment and re-enrolment after discontinuation - undergraduate

All faculties, colleges and boards of studies

1. A candidate for a degree of bachelor who ceases attendance at classes must apply to the faculty, college board or board of studies concerned and will be presumed to have discontinued enrolment from the date of that application, unless evidence is produced: (i) that the

- discontinuation occurred at an earlier date; and (ii) that there was good reason why the application could not be made at the earlier time.
- A candidate for a degree of bachelor who at any time during the first year of attendance discontinues enrolment in all courses shall not be entitled to re-enrol for that degree unless the faculty, college board or board of studies concerned has granted prior permission to re-enrol or the person is reselected for admission to candidature for that degree.
 - Subject to paragraphs (i) and (ii) of section 1, no candidate for a degree of bachelor may discontinue enrolment in a course or year after the end of lectures in that course or year.
 - The dean, pro-dean or a sub-dean of a faculty, director or deputy director of a college or the chairperson of a board of studies, may act on behalf of that faculty, college board or board of studies in the administration of these resolutions unless the faculty, college board or board of studies concerned decides otherwise.

Withdrawal from full-year and first semester courses

- A candidate for a degree of bachelor who discontinues enrolment in a full-year or first semester course on or before 30 March in that year shall be recorded as having withdrawn from that course.

Withdrawal from second semester courses

- A candidate for a degree of bachelor who discontinues enrolment in a second semester course on or before 30 August in that year shall be recorded as having withdrawn from that course.

All faculties, colleges and boards of studies except the Faculty of Engineering

Discontinuation

- (1) A discontinuation of enrolment in a course shall be recorded as 'Discontinued with Permission' when the discontinuation occurs after the relevant withdrawal period and
 - on or before the Friday of the first week of second semester for a full-year course, or
 - up to the last day of the seventh week of teaching in a one-semester course.
- (2) A discontinuation of enrolment in a course shall be recorded as 'Discontinued' when the discontinuation occurs
 - after the Friday of the first week of second semester for a full-year course, or
 - after the last day of the seventh week of teaching in a one semester course.
- (3) Notwithstanding paragraph (2) the dean, pro-dean or sub-dean of the faculty, director or deputy director of the college or chairperson of the board of studies concerned may determine that a discontinuation of enrolment should be recorded as 'Discontinued with Permission' on the grounds of serious ill-health or misadventure.

Discontinuation of enrolment and readmission after discontinuation - postgraduate

All faculties, colleges, boards of studies and graduate schools - all candidates

- A candidate will be presumed to have discontinued enrolment in a course, degree or diploma from the date of application to the faculty, college board, board of studies or graduate school concerned, unless evidence is produced (i) that the discontinuation occurred at an earlier date, and (ii) that there was good reason why the application could not be made at the earlier time.
- A candidate who at any time discontinues enrolment from a degree or diploma shall not be entitled to re-enrol in that degree or diploma unless the candidate is readmitted to candidature for that degree or diploma.
- Subject to paragraphs (i) and (ii) of section 1, candidates may not discontinue enrolment in a course after the end of classes in that course, unless the degree or diploma regulations permit otherwise.

- The dean, pro-dean or a sub-dean of a faculty, director or deputy director of a college, chairperson of a board of studies or a chairperson of a graduate school may act on behalf of that faculty, college, board of studies or graduate school in the administration of these resolutions.

Candidates proceeding mainly by coursework

Withdrawal from full-year and first semester courses

- A candidate for a degree or diploma who discontinues enrolment in a full-year or first semester course on or before 30 March in that year, shall be recorded as withdrawn from that course.

Withdrawal from second semester courses

- A candidate for a degree or diploma who discontinues enrolment in a second semester course on or before 30 August in that year, shall be recorded as withdrawn from that course.

Discontinuation

- A candidate for a degree or diploma who discontinues enrolment in a course after the withdrawal period but before the end of classes in that course, shall be recorded as 'Discontinued with Permission' in that course, unless the degree or diploma resolutions permit otherwise.

Candidates proceeding mainly by thesis

Withdrawal

- A candidate who discontinues enrolment in a course or degree before the end of the fifth week of enrolment, shall be recorded as having withdrawn from that course or degree.

Discontinuation

- A candidate who discontinues enrolment in a course or degree after the end of the fifth week of enrolment shall be recorded as 'Discontinued with Permission'.

Restriction upon re-enrolment

There are certain circumstances in which you could be asked to show good cause why you 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 studies concerned). The resolutions of the Senate restricting re-enrolment may be found in the University's Calendar, Vol. I: Statutes and Regulations. You should acquaint yourself with the resolutions relating to the studies in which you are enrolled. If you are in any doubt about your liability for exclusion following academic failure or discontinuation of courses you 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 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.

Assessment

Timetables for examinations

Draft timetables are displayed at the Carslaw building, outside the Student Centre, approximately 3 to 4 weeks before the commencement of examinations. Notice will be given in the 'News' and on departmental noticeboards. 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.

Notification of examination results

The results of annual examinations are displayed on noticeboards at the Carslaw building, outside the Student

Centre. Also they are posted through the mail service directly to you at the end of the year.

Disclosure of examination marks

Final marks will appear on your annual result notice. Marks may also be obtained from your faculty for the major 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 not apply to examination papers 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 provided that; (a) the request is made within three months of the release of the results of the examinations and (b) the examination involved was not a confidential examination paper.

Further tests

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

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.

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 9351 4554, fax 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

'Any student who desires special consideration by any Board of Examiners on the grounds of *illness or misadventure* must forward evidence of such to the Registrar before the commencement of the examination period concerned, unless the illness or injury takes place during the currency of the examinations, in which case the evidence must be forwarded as soon as is practicable, and not later than the last day of the examination timetable.'

In the case of illness, the request must be accompanied by a medical certificate signed by the student's medical practitioner. Such certificates should:

- (a) describe the nature of the student's illness;
- (b) indicate the degree of incapacity of the student and its duration or probable duration;
- (c) indicate the date[s] on which the student sought attention.

A Special Consideration form is available from the Student Centre or from the University Health Service. A Special Consideration form is also available from the Faculty Office. All forms **must** be lodged at the Student Centre.

Students who become ill immediately before or during an examination should notify an examination's supervisor who will arrange an escort to the University Health Service where they will be seen by a medical practitioner and where they may, if appropriate, continue their examination.

Should you find it embarrassing to state your difficulties in writing you should arrange an interview with the Dean of the Faculty.

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 Counselling Service, and of the University Health Service, are all available for consultation and can give advice on appropriate action to take.

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.

Postgraduate information

The higher degrees in the Faculty of Veterinary Science are:
GradDipVetClinStud - Graduate Diploma in Veterinary Clinical Studies

MScVetSc - Master of Science in Veterinary Science
MVSc - Master of Veterinary Science
MVetClinStud - Master of Veterinary Clinical Studies
MVetStud - Master of Veterinary Studies
PhD - Doctor of Philosophy
DVSc - Doctor of Veterinary Science

The regulations covering the award of these degrees are printed in the University's Calendar, Vol. I: Statutes and Regulations. Prospective candidates should consult with the Head of the Department 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 Diploma in Veterinary Clinical Studies

Persons holding the degree of Bachelor of Veterinary Science from the University of Sydney (or equivalent), which is registrable by the Board of Veterinary Surgeons of NSW, may apply for admission to candidature for the Diploma in Veterinary Clinical Studies.

A candidate for this diploma shall pursue, as a full-time student, such units of study as the Faculty, on the recommendation of the Head of the Department of Veterinary Clinical Sciences, shall prescribe for not less than one year. Assessment is by satisfactory completion of course, practical work and examinations, as prescribed by the Faculty.

Master of Science in Veterinary Science

Persons holding a Bachelor's degree with first or second class honours 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 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.

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 Radiology and Diagnostic Imaging, Veterinary Anesthesia, Avian Health and Production, Wildlife Medicine and Husbandry and Zoo Animal and Wildlife Pathology. 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 areas of Avian Health and Production and Veterinary Radiology and Diagnostic Imaging, 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 Husbandry 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 one year as a full-time student, or 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 Head of the Department or departments concerned, may prescribe.

Veterinary Pathology (not offered in 2000)

A candidate for the degree in the subject area of Veterinary Pathology shall pass written and/or oral examinations in each of the following subjects:

- Clinical Pathology
- Bacteriology
- Pathology
- Veterinary Parasitology
- Virology.

Veterinary Radiology and Diagnostic Imaging (not offered in 2000)

A candidate for the degree in the subject area of Veterinary Radiology and Diagnostic Imaging shall pass written and/or oral examinations in each of the following subjects:

- Physics of Diagnostic Imaging
- Radiobiology and Radiation Protection
- Anatomy and Physiology considered in relation to diagnostic imaging
- Interpretation of clinical images
- Radiation therapy.

Veterinary Anesthesia (not offered in 2000)

A candidate for the degree in the subject area of Veterinary Anesthesia shall pass written and/or oral examinations in each of the following:

Part 1

- Written and practical examinations:
- Anatomy, Physiology, Biochemistry and Physics considered in relation to anesthesia and intensive care;
- Pharmacology of drugs used for and in association with anesthesia and intensive care.

Part 2

- Written, clinical and practical examinations:
- The theory and practice of general anesthesia;
- The theory and practice of regional analgesia;
- Pre-operative assessment, preparation and medication, and the recognition and management of post-operative complications in so far as they are related to anesthesia and surgery;
- Fluid therapy and management of cases requiring intensive care.

Avian Health and Production

A candidate for the degree in the subject area of Avian Health and Production shall pass written and/or oral examinations in each of the following subjects:

- Epidemiology
- Therapeutics
- Medicine
- Surgery.

Wildlife Medicine and Husbandry

A candidate for the degree in the subject area of Wildlife Medicine and Husbandry shall:

- (a) complete satisfactorily and submit a report on an approved full-time program of study of at least one semester's duration at an institution which is concerned with the maintenance and care of wildlife and has been approved by the Faculty; and
- (b) present a report embodying the results of an original investigation carried out on a full-time basis over not less than one semester in the University of Sydney, or at an institution which is concerned with the maintenance and care of wildlife and has been approved by the Faculty; or complete satisfactorily a report, including a case report, on an approved full-time program of study of at least a further one semester at an institution as described in section (a); and
- (c) pass written and/or oral examinations that encompass the following subjects:
 - Management of captive animals
 - Management of free living wildlife
 - Zoological medicine
 - Diseases of free living wildlife
 - Nutrition and reproduction of wildlife.

The Faculty shall appoint a suitably qualified person to act as a supervisor of each candidate for the degree.

Zoo Animal and Wildlife Pathology

A candidate for the degree in the subject area of Zoo Animal and Wildlife Pathology shall:

- (a) present a report embodying the results of animal cases examined while at the institution of study;
- (b) present a seminar based on a case or cases examined while at the institution of study; and
- (c) pass a viva voce examination in each of the following subject areas:
 - The theory of general pathological principles
 - The theory of diseases affecting zoo animals and wildlife.
 - The practical aspects of necropsy technique, general laboratory techniques and histopathological skills.

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.

Postgraduate scholarships

The table of scholarships listed on the next page is a summary only. For further information contact the Scholarships Office.

Scholarship	Value \$	Closing date	Qualifications
1. Awards restricted to Veterinary Science postgraduates			
For further information regarding these awards contact the Faculty Office.			
Lionel Lonsdale Clinical Fellowships	16 500 Jnr 22 500 Snr	As advertised	For research at Sydney Veterinary Teaching Hospital and 'Clinic in diseases of domestic animals
F.H. Loxton Postgraduate Studentships	equiv. to APA	As advertised	Graduates of any university for research in veterinary science
Sara and Anne Payten Canine Cancer Research Fund		As advertised	Postgraduate study and research. (Value as recommended by the Head of Department of Veterinary Clinical Sciences.)
Jean Walker Trust Fellowships	equiv. to APA	As advertised	Postgraduate study and research
Jean Walker Trust Supplementary Fellowships	Max. 5000	As advertised	Postgraduate study and research
James Ramage Wright Research	Max. 5000	As advertised	Postgraduate Scholarships study and research into the problems of animal production
2. Other awards open to Veterinary Science postgraduates			
<i>(a) Tenable at the University of Sydney</i>			
Australian Postgraduate Awards (APA)	16 135 p.a.	October	Open to citizens and permanent residents of Australia for higher degree by research
University of Sydney Postgraduate Award (UPA)	equiv. to APA	October	Similar to APA
<i>(b) Travelling scholarships</i>			
Harriett Beard Scholarship	up to 15 500	February	Postgraduate study and research in physical sciences _ engineering, veterinary science and dentistry
Boulton Postgraduate Scholarship	up to 15 500	February	Postgraduate study or research for graduates educated within the Australian public educational system
C.G. Heydon Travelling Fellowship	up to 15 500	February	Postgraduate study or research in biological sciences at overseas institutions
William and Catherine McIlrath Scholarship	25 000	February	Postgraduate study or Scholarship research overseas
J.B. Watt Travelling Scholarship	up to 15 500	February	Postgraduate study or research overseas
Eleanor Sophia Wood Postgraduate Scholarship	up to 15 500	February	Postgraduate Research Travelling Scholarship overseas
<i>(c) Grants-in-aid restricted to Veterinary Science postgraduates</i>			
Sir Ian Clunies Ross Scholarship	up to 500	End February	Postgraduate candidature related to research in the wool industry
N.P.H. Graham Scholarship	up to 500	End February	Postgraduate candidature related to research in sheep medicine
Goldia and Susie Lesue Scholarship Clinical Sciences	up to 3000	End February	Postgraduate candidature in the Department of Veterinary Clinical Sciences
Neil and Allie Lesue Scholarship Clinical Sciences	up to 3000	End February	Postgraduate candidature in the Department of Veterinary Clinical Sciences
Eric Horatio Maclean Scholarships	up to 1000	End February	Postgraduate candidature
Stock and Meat Industries Grant-in-Aid	up to 750	End February	Postgraduate candidature in research related to the Stock and Meat Industries
<i>(d) Other grants-in-aid open to Veterinary Science postgraduates</i>			
Royston George Booker Scholarships	up to 1000	April	Postgraduate study or research overseas
Herbert Johnson Travel Grants	up to 1000	April	Postgraduate study or research overseas
J. Kentley Memorial Scholarship	up to 1000	April	Postgraduate study or research
James King of Irrawang Travelling Scholarship	up to 1000	April	Postgraduate study or research overseas
G.H.S. and I.R. Lightoller Scholarship	up to 1000	April	Postgraduate study or research overseas

Other Faculty information

Faculty Office

The Office of the Faculty of Veterinary Science is in the J.D. 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 J.D. 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 J.D. 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

In Orientation week, newly-enrolled first year students are introduced to the Faculty. There is a short ceremony in which the Dean, Sub-Dean Student Welfare, and the President of the Veterinary Student Association, welcome the students. This is followed by a tour of the Veterinary Science precinct and a barbecue. On the following day students visit the Camden campus and receive information on Faculty and University services and facilities.

Academic

For academic questions affecting courses of study you should see the appropriate faculty or college office, or for questions on course content, see the lecturer concerned.

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 J.D. 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.

Information about examinations is displayed at the Carslaw Building, outside the Student Centre, from time to time. There are also several permanent noticeboards in the Main Quadrangle area, notably beneath the Western Tower.

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.

Credit for courses completed

If you have already completed some tertiary study you may be eligible for credit for the courses already completed.

Application for credit must be made separately after enrolment and no decision or comment on the likelihood of success or otherwise of the application will be made before men.

Application forms are available in the Faculty Office.

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 1999 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
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4161
Fax: +61 2 9351 4013

Email: info@io.usyd.edu.au, reception@io.usyd.edu.au
<http://www.usyd.edu.au/homepage/exterel/international/index.html>

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 in Australia.

If you are an Australian citizen but have academic qualifications from overseas, you should apply through UAC (see below). If you are a permanent resident (non-citizen) of Australia, you also should apply through UAC. Permanent Residents of New Zealand should apply as a fee-paying overseas student.

Sponsored international students

The Australian International Development Assistance Bureau (AIDAB), which is the overseas aid unit of the Australian Department of Foreign Affairs and Trade, has a responsibility for the welfare of sponsored international students and their families. The address of the Bureau in Sydney is The Australian International Development Assistance Bureau Second Floor 'Sydney Central' 477 Pitt Street Sydney 2000. Phone: +61 2 9379 8888

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.

Attendance at lectures, and leave of absence

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. In the case of illness your letter of application should be accompanied by a certificate from a registered medical practitioner.

Should you be absent from classes without permission you may be refused permission to take the examinations.

Discontinuation

If you are contemplating discontinuing you should consult a student counsellor before you commit yourself to a decision.

If you are enrolled in a course for a degree in the Faculty of Veterinary Science and, without permission of the Faculty, you 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, you 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://www.usyd.edu.au/su/planning/policy/acadVaca-pol.html#>

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.

Part-time enrolment

Part-time enrolment in the BVSc is available for a limited number of students each year. Students need to demonstrate that special circumstances necessitate their part-time enrolment. Other conditions also apply. Further information and application forms are available in the Faculty Office.

Suspension of candidature

- (1) Students must re-enrol annually. A student who wishes to suspend candidature must first obtain approval from the Dean.
- (2) The candidature of a student who has not re-enrolled and who has not obtained approval from the Dean for such suspension will be deemed to have lapsed.
- (3) A student who has not obtained permission to re-enrol must apply for re-admission in accordance with procedures determined by the Faculty.

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 clodi 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.

Financial assistance

AUSTUDY - is the Commonwealth Student Assistance Scheme. To be eligible, a student must meet income test requirements, be an Australian citizen or permanent resident of Australia and be enrolled full-time in an approved course.

Details and application forms are available from the Department of Employment, Education and Training and Youth Affairs, phone 9911 0333.

ABSTUDY - is a Commonwealth Student Assistance Scheme for Aborigines and Torres Strait Islanders studying approved full-time or part-time courses after leaving school. Details and application forms are available from Department of Employment, Education and Training and Youth Affairs, phone 9911 0333.

A limited amount of financial assistance for needy students is available from the University's own sources; further details are available from the Registrar's Office, 9351 2416.

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 - ie, before offers are made.

Colleges

St Andrew's College (men and postgraduate women), Carillon Ave, Newtown 2042 (non-denominational)
Principal: Dr W L Porges, phone 9565 7300

St John's College (men and women), Missenden Rd, Camperdown 2050 (Catholic)
Rector: Mr Marshal McMahon, phone 9394 5200

St Paul's College (men), City Rd, Newtown 2042 (Anglican)
Warden: Rev Dr Ivan Head, phone 9550 7444

Sancta Sophia College (women and postgraduate men), Missenden Rd, Camperdown 2050 (CathoHc)
Principal: Mrs Janice Raggio, phone 9577 2100

Wesley College (men and women), University Grounds, Newtown 2042 (Uniting)
Master: Rev Dr John Evans, phone 9565 3333

Women's College (women and postgraduate men), Carillon Ave, Newtown 2042 (Non-denominational)
Principal: Ms Quentin Bryce, phone 9517 5000

Mandelbaum House (men and women), 385 Abercrombie Street, Darlington NSW 2008 (Jewish)
Principal: Mr Gidon Druery, phone 9692 5200, fax: 9692 5280

Halls of Residence

International House (men and women), 96 City Rd, Chippendale 2008 (Non-denominational).
Preference given to postgraduate and senior undergraduate students, phone 9950 9800

W.A. Selle House (men and women), 4 Arundel St, Forest Lodge 2037 (Non-denominational).

Provides rooms with a community kitchen, phone 9351 3322
STUCCO (men/women), phone 9550 4089

Darlington House (men/women), phone 9550 4727

University Terraces (men/women), phone 9351 3322

Hostels

Arundel House, Arundel St Forest Lodge 2037 (Anglican)
Warden: Mrs. Ruth Lukabyo, phone 9660 4881

St Michael's College (men), 150 City Rd, Darlington 2008 (Catholic)

Rector: Fr Kevin Muldoon, phone 9692 0382 (principally for postgraduate students)

Foundations

Postgraduate Foundation in Veterinary Science

The purpose of the Foundation is to provide a comprehensive program of continuing veterinary education. 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 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. Website: 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.

J.D. Stewart 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 Foundation 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 also 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, Mr Dick Austen AO. Further information about the Foundation can be obtained from the Faculty Office on 02 9351 2441.

Staff**Faculty****Dean**

Professor Reuben J. Rose, DVSc PhD DipVetAn, FRCVS
FACBS MACVSc

Pro-Dean

Associate Professor Wayne L. Bryden, MRurSc DipEd N.E.
PhD

Associate Deans**Animal Welfare**

Dr Robert J. Dixon, BSc(Vet) BVSc PhD *Massey*
Camden Campus

Associate Professor Garry M. Cross

Postgraduate Education

Associate Professor Frank W. Nicholas, PhD *Edin.* BScAgr
Research

Dr Herman W Raadsma, MSc(Agr)

Teaching

Dr G. Henry Collins, BVSc *Brist.* PhD *Massey*, MRCVS

Sub-Deans**Students**

Dr Rhondda B. Canfield, BVSc PhD, MRCVS

Undergraduate Admissions

Dr Paul R. Hopwood, DipTertiaryEd N.E. BVSc PhD,
MRCVS

Committee**Faculty Development Committee**

Associate Professor Wayne L. Bryden, MRurSc DipEd N.E.
PhD

Faculty Manager

Cindy Wilkinson, B A(Hons) MMgmt *UTS*

Manager Information Systems

John Tebbitt

Desktop Support Officer

David Liu

Administrative Assistants

Tess La-Lande

Patricia Moroney

Lyn Robson

Building Attendant, Veterinary Science Conference Centre

Lachlan A. Waters

Departments**Animal Science****Sydney****Professor**

David R. Fraser, PhD *Camb.* BVSc. Appointed 1986

Associate Professors

David L. Evans, BVSc PhD

Gareth Evans, BA *Oxf.* PhD

Chis Maxwell, BScAgr PhD

Christopher Moran, PhD *AN.* [BSc

Frank W. Nicholas, PhD *Edin.* BScAgr

Senior Lecturer

Rosanne M. Taylor, BVSc PhD

Lecturers

Melanie Collier, BSc PhD *Leeds*

Paul McGreevy, BVSc PhD *Brist.*

Michelle L. Hyde, BScAgr PhD

Senior Technical Officers

Irene van Ekris, BSc *J.C. U.*

Kim Heasman

Angelika Trube

Technical Officers

Dung T. Doan

Helen Hughes

Kerry Murdoch

Andrew Souter

Administrative Assistant

Margaret Byrne

Camden**Associate Professors**

Derick Balnave, PhD DSc *Belf.* FRSCHEM

Wayne L. Bryden, MRurSc *N.E.* DipEd *N.E.* PhD

James M. Gooden, BAgSc *Adel.* PhD

Peter C. Wynn, MRurSc DipEd *N.E.* PhD

Senior Lecturer

Bevan G. Miller, BVSc PhD

Senior Technical Officer

Chris Stimson

Technical Officers

John McClure

Kim McKean

Kaylene A. Scrimgeour

Administrative Assistant

Elizabeth Thomas

Animal Attendant

Melinda Jones

Emeritus Professors

E.F. Annison, PhD DSc *Lond.*

C.W. Emmens, PhD DSc *Lond.* HonDVSc, FSS FAA

HonFACVSc FIBiol Cbiol

T.J. Robinson, PhD (*Cantab*) ScD (*Cantab*) MScAgr (*WAust*)

D.A. Titchen, MA PhD ScD *Camb.* BVSc

Honorary Associates

J. Catt, PhD *EastAnglia*

W. J. Fulkerson BAgSc *WA PhD*

R. Giles, PhD

H. Greenfield, BSc (Hons), PhD *Lond.* RPHNutr *UK*

P. J. Healy, BVSc PhD

Y. Heynold, DVM *Berne*

A. Jackson, PhD *Monash*

R.C. Kellaway, BSc(Hort) *Lond.* PhD *N.E.* DTA *W.I.*

Y.C. Kong, DSc *Bruxelles*

I.C.A. Martin, BVSc PhD

M. McInerney, BSc DipEd

G. Moser, PhD *Hohenheim*

J. Newby, BSc, BVMS *WA*

E.J. Post, BSc PhD

T.J. Robinson, PhD *Cantab ScD Cantab MScAgr (WAust)*
K. Seksel, BVSc, BA *Macq. MA Macq.*
B.L. Sheldon, BAgSc PhD
G. M. Stone, BScAgr PhD
P. Williamson, BSc *N.E.* PhD
D. Zhang, BSc *Jilin MSc Northeast Ag. University (P.R. China)* PhD
Adjunct Professor
J. Black, PhD *Melb.*

Veterinary Anatomy and Pathology

Professor

Michael M. Bryden, BVSc QWDSVM *Cornell PhD DSc, FAIBiol.* Appointed 1988

Hughes Professor

Alan J. Husband, PhD DSc *N'cle (N.S.W.) BScAgr, FASM.* Appointed 1992

Associate Professors

Paul J. Canfield, BVSc PhD, FACVSc MRCPATH MRCVS

Daria N. Love, PhD DVSc, FRCPATH MASM FACBS

Terence L.W. Rothwell, PhD DVSc, MACVSc

Nicholas C. Sangster, BSc(Vet) BVSc PhD

Senior Lecturers

G. Henry Collins, BVSc *Brist. PhD Massey, MRCVS*

Paul R. Hopwood, DipTertiaryEd *N.E. BVSc PhD, MRCVS* *Le ctu re vs*

Rhondda B. Canfield, BVSc PhD, MRCVS

Malcolm P. France, BVSc PhD

Susan Hemsley, MVSc PhD

Glenn M. Shea, BVSc PhD

Senior Research Fellow

Vivienne E. Reeve, BSc PhD

Professional Officer, Grade IV

David L. Griffin, BSc *Macq. DipMT A.I.M.L.T., MAIMS*

Professional Officer Grade II

Denise I. Wigney, BVSc DipVetPath

Professional Assistant Grade II

Patricia A. Martin, MVSc

Senior Research Officer

Shisan Bao, MB BS *S.S.M.U. (P.R. China)* Ph

Postdoctoral Research Fellows

Aleta Knowles, BSc(Hons) PhD *Qld*

Wendy Muir, BScAgr(Hons) PhD

Senior Technical Officers

Richard Borg, BTHC MISP

Bozena Jantulik

Sally E. Pope, BTHC

George Tsoukalas, PTHC

Karen L. Wadwell, PTHC BAppSc(MedLabSci) *C. Sturt*

Technical Officers

Munif AUanson, BSc BSc(Hons.II) *Adel. GradDipMedLabSc* *USthAust.*

Elaine Chew, BSc DipPathTech *STC*

Monita Dias, BSc *UTS*

Norman Dow

Shamila Khan, BSc *W'gong AssDipBioTech SydTechColl*

Svedana M. Patoka, BSc *Inst. ofKriboy Rog, MTC*

Don Slade

Laboratory Assistant

Frank Taeker, BSc *Macq.*

Research Support Worker

Diane Domanski

Animal House Attendants

Chandrika Abeywardana

John Fisher

Administrative Assistant

Lyndell M. Tollefsen

Honorary Appointments

Emeritus Professors

R.M. Butterfield, PhD DVSc GWMVSc, FACVSc

C.H. Gallagher, PhD *Lond.* DVSc, FACVSc FRCPATH

Honorary Associates

G.D. Bailey, BVSc PhD DipVetClinStud

D.H. Cato, MSc PhD

T.M. Donnelly, BVSc DipVetPath

T.L. Rogers, PhD

J.E. Wellington, MSc PhD *Macq.*

J.M. Whalley, BSc *Edin.* PhD *Glasgow*

R.J. Whittington, BVSc PhD, MACVSc

Adjunct Professor

J.L. Black, BAgSc DipEd PhD

Veterinary Clinical Sciences

Sydney

Professor

Brian R.H. Farrow, BVSc PhD FACVSc. Appointed 1995

Associate Professors

A. David J. Watson, BVSc PhD, FRCVS FAAVPT MACVSc

Senior Lecturers

Phillip E. Davis, MVSc, MRCVS

Geraldine B. Hunt, BVSc MVetClinStud PhD, FACVSc

Richard Malik, *PhD A.N.U.* BVSc MVetClinStud DipVetAn,

FACVSc MASM

Associate Professor and Director, University

Veterinary Centre, Sydney

David B. Church, BVSc PhD, MACVSc

Lecturer

David Simpson, BVSc, MACVSc

Clinical Registrars

Sue Foster, BVSc

Merran Govendir, BVSc

Yukari Miyake, BVSc

Sanaa Zaki, BVSc

Clinical Residents

Judy Braddock, BVSc

Julius Liptak, BVSc, MACVSc

Penny Tisdall, BVSc

Visiting Lecturers/Demonstrators

Anthony P. Black, BVSc, FACVSc

David Clarke

Ken Mason

Robert Nicoll, BVSc BSc(Vet) DACVR

Jeffrey S. Smith, BVSc DipACVO, FACVSc

R. Max Zuber, BVSc, FACVSc

Senior Technical Officer

Dorothy R. Lewis, MSc *Br. Col.*

Technical Officer

Keith Ellis

Radiographer

Helen M. Laurendet, BSc(Appl), MIR

Accounts Clerk

Maureen Mahoney

Nursing Staff

Rhonda L. Foreman

Angela Howie

Georgina Phillips

Sarah Seymour

Animal Attendants

Cara Chambers

Antonio Nastasi

Administrative Assistants

Leonie Beadman

Trudi Billington

Rhian Foster

Patricia Roberts

Emeritus Professor

M.J. Edwards, MVSc *Liv.* PhD DVSc, MRCVS MACVSc

Honorary Associate

CR. Howlett, BVSc PhD, MRCVS MACVSc

Adjunct Professor

G.S. Allan, MVSc DipACVRad, FACVSc

Camden

Associate Professors

Garry M. Cross, MVSc PhD

Robert J. Love, MVSc PhD *Brun.*, FACVSc

Associate Professor and Director, University Veterinary Centre, Camden

David R. Hodgson, BVSc PhD DipACVIM, FACBS FACSM MRCVS

Senior Lecturers

Robert J. Dixon, BSc(Vet) BVSc PhD *Massey*

Anthony W. English, BVSc PhD *Qld*, FACVSc RFD

Jennifer L. Hodgson, BVSc DipVetPath PhD *Washington State*
Lecturers

Kym A. Abbott, BVSc MVS, FACVSc

Senior Veterinary Registrars

Andrew Dart, BVSc DipVetClinStud DipACVS

Christina Dart, DVetMed *Zurich* MVSc ASIF DVSc *Geulph*
DipACVA

Karon Hoffman, BVSc MVSc PhD

Elizabeth Dill-Macky, BVSc DipVetClinStud

Karim Kooros, BVetMed, MRCVS

Robert Rheinberger, BVSc, MACVSc MRCVSc

Linda Vogelnest, BVSc

Clinical Pathologist

Allan Kessell, BVSc, MVCS

Registrars

Rachel Clayton, BVSc

Bradley Dowling, BVSc(Hons) MVetClinStud

Kris Hughes, BVSc(Hons)

Robert Pottie, BVSc

Clinical Resident

Rachel Lambeth, BVSc

Interns

Matthew Dobbs, BVetMed, MRCVS

Natasha Lees, BVSc

Joanne Rainger, BScVet(Hons) BVSc(Hons)

Rita Singh, BSc (*Murdoch*) BVMS (*Murdoch*)(.Hons)

Gabi Tobias, BVSc(Hons) BScVet(Hons)

Nursing Staff

Debbie McClelland

Karen Ross

Tabitha Shayler

Lisa Thomson

Tara Wallace

Juanita Wiegmann

Principal Research Fellow

Herman W. Raadsma, MSc(Agr) PhD

Manager University Veterinary Centres

Warren J. Kelly, AICM

Senior Technical Officer

Marilyn Jones

Technical Officers

Gina Attard

Ron Henderson

Craig L. Kristo

Denise Oliff

Susan Smith

Jiri Tasler

Research Assistants

Om P. Dhungyel, BVSc MScVetSc

Mellisa J. Offord, BScAgr

Shirley P. Ray, BAppSc N.S.W.I.T. MSc UN.S.W. DipEd

Laboratory Assistant

Eileen Risby

Animal Attendants

Byron Biffin

David Palmer

Robert Plumridge

Matthew Van Dijk

Administrative Assistants

Janine Fisher

Helen Frappell

Sandra Garrett

Colleen Ritchard

Cynthia Roper

Sandra Saville

Katherine Shepherd

Diane Woods

Selena Watson

Teaching staff from other faculties

Biochemistry

Associate Professor

Emma Whitelaw, BSc ANU DPhil *Oxf.*

Biometry

Lecturer

Peter C. Thomson, MSc MAppStat *Macq.* PhD

Chemistry

Director of First Year Studies

Julia M. James, PhD (*Lond.*), MRACI Chem

Crop Sciences

Senior Lecturer

Dennis R. de Kantzow, BScAgr DipAgrEc, FAIAS

Pharmacology

Senior Lecturer

Jill E. Maddison, BVSc PhD DipVetClinStud, FACVSc

Undergraduate scholarships and prizes

The table on the following page is a summary only. For further information contact the Scholarships Office.

Scholarship or prize	Value \$	Qualifications
<i>Matriculation</i>		
Alexander Donald	450	Student from Sydney Grammar School
Martin McIlrath	1500	Ex-servicemen and male descendents of ex-servicemen
<i>Undergraduate</i>		
Association of Avian Veterinarians Prize in Avian Medicine	-	Proficiency in Avian Medicine
Australian College of Veterinary Scientists (Chapter of Veterinary Pharmacology)	plaque	Proficiency in Veterinary Pharmacology and Toxicology
Australian Small Animal Veterinary Association Prize	300+medal +2 yrs membership	Proficiency in small animal medicine and surgery
Australian Society for Parasitology	200	Proficiency in 4th year Veterinary Parasitology
Australian Veterinary Association Prize	-	Academic excellence and participation in student affairs
Auxiliary to the Australian Veterinary Association (NSW Division) Prize	80	Proficiency in Biochemistry and Veterinary Physiology in 2nd and 3rd year
Australian Veterinary Association	book	Proficiency in Veterinary Pathology
Auxiliary to the Australian Veterinary Association (NSW Division) Prize in Clinical Pathology	50 voucher	Proficiency in 4th year Veterinary Veterinary Clinical Pathology
Auxiliary to the Australian Veterinary Association of not more than 60% (NSW Division) Prize for Third Year students	50 books	Greatest improvement in 3rd year after passing 2nd year with an average mark
Auxiliary to the Australian Veterinary Association (NSW Division) Prize in Animal Genetics	50	Proficiency in Animal Genetics
Baker & Ridley Memorial	150	Proficiency in 4th year Animal Husbandry Practical Report
H.G. Belschner	100	Proficiency in 1st year in sheep and wool
Rex Butterfield Prize in Veterinary Anatomy	50	Proficiency in 2nd year in Veterinary Anatomy
H.R. Came Prize and Medal (Veterinary)	250+medal	Proficiency in the examinations for the degree of Bachelor of Science
Commonwealth Bureau of Animal Health	40	Proficiency in 4th year in Veterinary Surgery
Cooper Australia Ltd.	225	Proficiency in 4th year in Veterinary Parasitology
C.W. Emmens Prize in Veterinary Physiology sequential years	100	Highest aggregate marks in 2nd and 3rd year Veterinary Physiology in sequential years
Fair Memorial	50	Proficiency in 1st year in horse husbandry
Friskies Pet Care Prize in Animal Nutrition	300	Proficiency in 3rd year in principles of nutrition
N.P.H. Graham	200	Proficiency in 5th year in the sheep component of Veterinary Medicine
John Gurner and Frederick Ebsworth	350 (x3)	Proficiency in 1st year in Chemistry, Cell Biology 1A and Cell Biology 1B
Robert Reeves Hodgekiss Prize for Equine Research	250	Student essay
K.G. Johnston	150	Proficiency in Veterinary Clinical Pathology
Dr J. Lamond Memorial	Bursaries	Financial need and academic merit
Lonsdale	400, 200	Proficiency in 4th year in clinical studies
William James McHugh	300	Case report in equine medicine or surgery in 4th or 5th year
Metro Farms Pty. Ltd. Prize in Pig Medicine	50	Proficiency in final year in pig medicine
Jack Moran	20	Proficiency in meat inspection in Veterinary Public Health
Virginia Osborne	250	Proficiency in 2nd year in anatomy of the horse
W.R. Sidman Memorial Prize	-	Proficiency in 4th year in Veterinary Assoc, clinical studies. Prize of 3 yrs membership awarded by NSW Division of Australian Veterinary Association
Stewart	180	Proficiency in 4th year in veterinary medicine
J.D. Stewart	60	Student essay
S.T.D. Symons	600	Proficiency in final year in clinical subjects
WIRES Wildlife Prize	250	Best final year essay relating to Australian native wild life

Facilities and student societies

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, totalling 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 two departments of the Faculty of Veterinary Science and the Department of Agronomy of the Faculty of Agriculture. The faculty departments with major responsibilities at Camden are Animal Science and Veterinary Clinical Sciences. These departments are based in the J.L. Shute Building on Werombi Road. They have several major teaching and research units on nearby areas of the Corstorphine Centre. The Department of Animal Science 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 Department of Veterinary Clinical Sciences. It is a mixed veterinary practice, providing services to the district. This department has also established and maintains separate pig and deer units.

In 1981 the University acquired a farm at Cobbitty. Here the Faculty of Veterinary Science has a horse breeding unit, and the Department of Animal Science's 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. They also carry about 2000 sheep, 30 horses, 80 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 by various departments of the faculties at Camden. Corstorphine is also the site of the Departments of Veterinary Clinical Sciences, Animal Science, and Agronomy, which occupy the University Veterinary Centre, Camden, the Shute Building, the Breakwell Building, the Poultry Research Centre, the M.C. Franklin Beef Research Centre and the Dairy Research Unit. Further large animal research and teaching facilities are provided by the Department of Animal Science on May Farm, which is only 3km south of Corstorphine.

The Bringlely Farms Centre, 10km north of Corstorphine, provides extensive sheep, beef and dairy cattle facilities for the Departments of Veterinary Clinical Sciences and Animal Science. 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 in different departments, 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, staffed by the Department of Veterinary Clinical Sciences, in addition to offering a veterinary service for the district, provides clinical training for fifth year 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. In fifth year they are in residence on the farms for the whole academic year as well as for a vacation period of three weeks working in the clinic.

In 1979 an additional livestock holding north of Marulan known as Arthursleigh 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

To reach Corstorphine from Sydney, take Hume Highway (not the freeway) to the Cobbitty turn-off, which is to the right, 20 km 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 (Camden): +61 2 9351 1622
University Veterinary Centre Camden: +61 2 9351 1777
Students: +61 2 9351 1678, +61 2 9351 1681,
+61 2 9351 1682, +61 2 9351 1683, +61 2 9351 1684

Nepean Hall

In 1964 Nepean Hall was established as a Hall of Residence on the University farms at Camden for final year Veterinary Science and Agriculture students.

Nepean Hall consists of two residential wings, which accommodate 85 students in furnished single study/bedrooms. Residence in the Hall is non-compulsory but there is a high demand for places. Fees are kept at the lowest possible level with full board set at \$160 per week in 2000.

The Hall, with its spacious surrounds and panoramic views, offers a wide range of amenities including a recreational common room and music room, games rooms with table tennis, billiards and snooker, squash, tennis, football, recently completed gymnasium/sports pavilion, television and video equipment, barbecue and supper-making facilities. In addition, there is a library adjacent to the Hall and residents are permitted conditional access to it at night. There are four computers in the library for student use and about twenty computers in the Shute building for the same purpose. All computers are linked to the web and all students are given an e-mail address.

The management of Nepean Hall is vested in the Council consisting of:

- (a) the Vice-Chancellor (ex officio) or nominee;
- (b) the Warden of the Hall;
- (c) the Dean of the Faculty of Veterinary Science or nominee;
- (d) the Dean of the Faculty of Agriculture or nominee;
- (e) one student elected annually by and from students in residence in Nepean Hall who are candidates for the award of a degree or diploma in the Faculty of Veterinary Science;
- (f) one student elected annually by and from students in residence in Nepean Hall who are candidates for the award of a degree or diploma in the Faculty of Agriculture;
- (g) two persons appointed by the Senate on the recommendation of the Council to hold office for three years from 1 January following their appointment;
- (h) the Authorised Officer;
- (i) the Professor of Animal Science and the Professor of Veterinary Clinical Sciences.

Day-to-day activities of the Hall are the responsibility of a committee elected by the residents.

Rules

The following rules apply to students while resident in the Hall.

1. A visitor shall leave at any time if requested by the Warden.
2. A member of the Hall who is a student who commits a breach of the constitution or the rules or a breach of discipline or misconducts him or herself in or out of the Hall:
 - (a) may be fined by the Warden,
 - (b) may be suspended from residence in or attendance at the Hall by the Warden for a period not exceeding one month,
 - (c) may be suspended for any period by the Warden of the Hall or the Vice-Chancellor of the University,
 - (d) may be fined by the Council or the Vice-Chancellor in any amount, or
 - (e) may incur any penalty in accordance with academic usage which the Senate, the Proctorial Board of the University, the Council or the Vice-Chancellor or any other person authorised within the by-laws of the University may impose.

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 (Camden), 425 Werombi Road (Private Mail Bag 3), Camden 2570; phone +61 2 9351 1622, fax+61 2 9351 1664.

Departments of Veterinary Clinical Sciences and Animal Science, 425 Werombi Road (Private Mail Bag 3), Camden 2570.

Department of Veterinary Clinical Sciences, phone +61 2 9351 1611, fax +61 2 9351 1618.

Department of Animal Science, phone +61 2 9351 1665, fax +61 2 9351 1693.

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.

Camden Library, Werombi Road, Camden 2570, phone + 61 2 9351 1627, fax +61 2 4655 6719

Horse Unit, 65 Cobbitty Road, Cobbitty 2570, phone +61 2 4651 2568.

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

May Farm, May Farm Road, Mt Hunter, Camden 2570, phone +61 2 4654 5239.

McGarvie Smith Animal Husbandry Farm, Elizabeth Drive, Badgery's Creek, 2171; phone +61 2 4774 8184.

Plant Breeding Institute, 107 Cobbitty Road, Cobbitty 2570; phone +61 2 9351 8800, fax +61 2 9351 8875.

Wolverton Dairy Farm, Greendale Road, Bringelly 2171, phone +61 2 4774 8013.

Libraries

University of Sydney Library

A large network of 24 Libraries supports staff and students of the University of Sydney. The specialist libraries for research in Veterinary Science are Badham Library and Camden Library. Fisher Library holds resources of interest to first year students.

The Library homepage is located at <http://www.library.usyd.edu.au/> and provides access to services including the Library catalogue and databases that index journal articles. Key databases for Veterinary Science are Medline, CAB Abstracts, Biological Abstracts and Zoological Record. Passwords to access these databases from outside campus are available to staff and students of the University. Please contact the Library for more information.

Badham Library

Ground Floor, Badham Building A16, Science Road, Camperdown Campus, University of Sydney NSW 2006
Phone: +61 2 9351 2728
Fax: +61 2 9351 3852

Email: badham@library.usyd.edu.au

Open from 8.30am - 7.30pm Monday to Friday and from 10am - 5pm on Saturdays during semester time and out of semester from 9am - 5pm.

Check the web at <http://www.library.usyd.edu.au/Services/Libraries/Badham/index.html> for information on the current opening hours.

Camden Library

University of Sydney Farms C15, Werombi Road, Camden NSW 2570

Phone: +61 2 9351 1627

Fax +61 4655 6719

Email: camden@library.usyd.edu.au

Open Monday 10am - 6pm, Tuesday 11am - 9pm, Wednesday, Thursday 9am - 5pm and Friday 8.30am - 4.30pm during semester time and Monday to Friday 8.30am - 4.30pm out of semester time. Check the web at: <http://www.libraries/Camden/index.html> for information on the current opening hours.

Clubs and societies

The Veterinary Alumni Association

The Veterinary Alumni Association was launched in August 1986. The aims of the association are to establish a link between the Faculty and its graduates throughout Australia and overseas and to provide opportunities for graduates to renew acquaintances, participate in educational events and to

promote the interests of both the Faculty and veterinary science generally.

Sydney University Veterinary Society

The Sydney University Veterinary Society, which was formed in 1914, 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.

Veterinary Science Common Rooms

The object of the Veterinary Science Common Rooms is to provide a place to meet members of the teaching staff, postgraduates and other undergraduate students, and a place where they can meet other members of the University and visitors. Light meals and refreshments are available.

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 staff. 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 Main Quadrangle, but towards the end of 1913 they were moved completely into the present main building (J.D. 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 J.D. 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 McGarvie Smith Institute, purchased and developed a 160 hectare property at Badgery'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 (R.M.C. 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.

The Faculty now consists of three departments, Animal Science, Veterinary Anatomy and Pathology and Veterinary Clinical Sciences, and over 2800 students have been awarded the BVSc degree. 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 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.

A new Bachelor of Veterinary Science (BVSc) course

The Faculty of Veterinary Science completed a comprehensive review of the Bachelor of Veterinary Science (BVSc) in 1999. The review has involved not only academic staff and students, but also members of the veterinary profession. The review process identified many areas that needed improvement, and the revised course will commence with the Year 1 students enrolling in 2000.

One of the major driving philosophies has been greater integration of topics within the course, and a need for more contextual learning. At the moment the course is dominated by "basic sciences" in Years 1 and 2, and students do not begin to deal with real problems in animal health or animal production until Year 4, when they commence work in the University Veterinary Centres. The Faculty has therefore committed to

earlier introduction of units of study that deal with animal behaviour, clinical problems and diseases and the integration of topics. In addition, new topics have been introduced that deal with some of the core elements of veterinary practice, such as communication and business skills.

Some important features of the new course include:

- Physics will no longer be taught as a discreet unit of study in Year 1. Appropriate content will be introduced contextually throughout the course.
- Chemistry content will be reduced and revised, reflecting the specific needs of the Faculty.
- Biochemistry and Cytology content will be integrated in new units of study in Cell Biology presented in Year 1.
- Veterinary Anatomy and Physiology units will be integrated in Years 1 and 2.
- A new unit in Veterinary Conservation Biology will be introduced in Year 2.
- New Professional Practice units will be introduced for Years 1-3. These units emphasise personal and professional development, and focus on generic skills and attributes of students. They will also facilitate contact between students and mentor veterinary practices, and problems and scenarios in veterinary science will be studied from Year 1. Examples of issues covered include aspects of animal euthanasia, client communication, grief management, and legislative concerns in veterinary science.
- Units in Bacteriology, Virology and Parasitology will be replaced by units in Veterinary Pathobiology. The new units will emphasise an integrated approach to cases and problems in animal disease.
- A new unit in Animal Behaviour and Welfare Science will be introduced in Year 3 of the course.
- Animal Husbandry in Year 1 will be expanded, and will integrate selected topics. Aspects of feeding and management of companion animals will be expanded in these units. These changes are predicated on the assumption that students should be able to give sound advice on vaccination, common diseases and feeding of animals in their first year of study in the BVSc.
- Animal Genetics and Biometry will be also taught as an integrated unit of study in Year 2.
- The new course will also introduce a new elective unit in Year 5.

In addition, the Faculty will introduce a major change to the final two years of the degree. Students will spend their final year in clinical practice activities, in what will be in effect, a transition year to practice. Currently, veterinary science students spend their 4th year in Sydney, where as well as receiving lectures and practical classes, they also participate in case management at the University Veterinary Centre, where clients bring their sick domestic pets. In final year, the students currently live at Camden, where they are involved in large animal work and also participate in the activities of University Veterinary Centre Camden, which has a focus on health and production of farm animals and horses. The new proposal involves students completing their lectures and practical classes in 4th year, with the first half of the year at Sydney and the second half at Camden, starting in Year 4 in 2003. There will be limited clinical case management during this year but the students will be involved in practical classes to gain expertise in medicine, surgery, radiology, anaesthesia and clinical pathology of both small and large animals. The final year would then be a practice-based year, with periods of time spent in the University Veterinary Centres at Sydney and Camden, as well as in private veterinary practices. We believe that these changes will permit students to make the best use of clinical case material during their final year. We are confident that these changes to the course will retain the strong scientific background that has been a long-term strength of the degree. The changes will also contribute to development of the skills and professional competence of our graduates, and so ease the transition to the sometimes very demanding work schedules and challenges involved in a veterinary practice.

Feedback from students and graduates has been fundamentally important during the Faculty's deliberations on

the course revisions. Continual re-evaluation of the strengths and weaknesses of the course will be undertaken with the assistance of the Centre for Teaching and Learning. Annual surveys of students and graduates will also help the Faculty maintain a dynamic and innovative course that meets the needs of our talented, enthusiastic students and the community.

The following table lists the units of study in the course from 2000. All names of units and credit points are subject to change.

Unit of study	credit points
Year 1	
<i>February Semester</i>	
Professional Practice 1A	3
Chemistry	6
Animal Husbandry 1A	5
Cell Biology 1A	4
Veterinary Anatomy & Physiology 1A	6
<i>July Semester</i>	
Professional Practice 1B	3
Cell Biology 1B	6
Animal Husbandry 1B	7
Veterinary Anatomy & Physiology 1B	8
Year 2	
<i>February Semester</i>	
Professional Practice 2	4
Genetics & Biometry	6
Animal Digestion and Nutrition	7
Veterinary Anatomy and Physiology 2A	7
<i>July Semester</i>	
Equine Anatomy	4
Principles of Disease	8
Veterinary Anatomy and Physiology 2B	8
Veterinary Conservation Biology	4
Year 3	
<i>February Semester</i>	
Veterinary Pathobiology 3A	8
Veterinary Pathobiology 3B	8
Veterinary Pharmacology and Toxicology	3
Animal Behaviour and Welfare Science	3
Professional Practice 3A	2
<i>July Semester</i>	
Veterinary Pathobiology 3C	7
Veterinary Pathobiology 3D	7
Veterinary Medicine 3	3
Veterinary Surgery 3	3
Veterinary Radiology 3	1
Veterinary Anaesthesia 3	1
Professional Practice 3B	2
Year 4	
<i>February Semester</i>	
Veterinary Surgery/Applied Anatomy	6
Animal Husbandry Practical Report	2
Veterinary Anaesthesia 4	2
Veterinary Medicine and Clinical Pathology	8
Veterinary Radiology	2
Veterinary Public Health	4
<i>July Semester</i>	
Cattle Health and Production	6
Sheep Health, Production and Surgery	4
Horse Medicine	4
Pig Health and Production	4
Bird Health and Production	4
Special Veterinary Medicine	2
Year 5 (Year-long units of study)	
Small Animal Medicine	10
Small Animal Surgery	8
Large Animal Medicine	6
Large Animal Surgery	3
Veterinary Clinical Pathology	3
Veterinary Anaesthesia 5	3
Radiology	3
Production Animal Medicine and Surgery	3
Elective	3
External Clinical Rotations (Small Animals)	3
External Clinical Rotations (Large Animals)	3

General University information

See also the Glossary for administrative information relating to particular terms.

Admissions Office

Student Centre
Ground Floor, Carlaw Building, F07
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4117 or +61 2 9351 4118
Fax: +61 2 9351 4869
Email: admissions@records.usyd.edu.au

The Admissions Office is responsible for overseeing the distribution of offers of admission and can advise prospective local undergraduate students regarding admission requirements. Postgraduate students should contact the appropriate faculty. If you are an Australian citizen or a permanent resident but have qualifications from a non-Australian institution, phone +61 2 9351 3611 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.

Applying for a course

Prospective (intending) students must lodge an application form with the Universities Admissions Centre (UAC) by the last working day of September of the year before enrolment. Note that some faculties, such as Dentistry, the Sydney Conservatorium of Music and Sydney College of the Arts, have additional application procedures.

Assessment

For matters regarding assessment, refer to the relevant Department.

Careers information

Courses and Careers Unit
Ground Floor, Mackie Building, KOI
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3481
Fax: +61 2 9351 5134
Email: info@careers.usyd.edu.au
<http://www.careers.usyd.edu.au>

Provides careers information and advice, and help in finding course-related employment both while you're studying and when you commence your career.

Continuing Education

Centre for Continuing Education
Mackie Building, KOI
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2585
Fax: +61 2 9351 5022
Email: info@cce.usyd.edu.au
<http://www.usyd.edu.au/cce>

Bridging courses; Study skills courses; essay writing courses.

Co-op Bookshop

Sydney University Sports and Aquatic Centre, G09
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3705 or +61 2 9351 2807
Fax: +61 2 9660 5256
Email: sydu@mail.coop-bookshop.com.au
<http://www.coop-bookshop.com.au>
Sells textbooks, reference books, general books and software. Special order services available.

Enrolment and pre-enrolment

Students entering first year

Details of the enrolment procedures will be sent with the UAC Offer of Enrolment. Enrolment takes place at a specific time and date, depending on your surname and the Faculty in which you are enrolling, but is usually within the last week of January. You must attend the University in person or else nominate, in writing, somebody to act on your behalf. On the enrolment day, you pay the compulsory fees for joining the Student Union, the Students' Representative Council and sporting bodies. You also choose your first-year units of study, so it's important to consult the Handbook before enrolling.

All other students

A pre-enrolment package is sent to all enrolled students in late September, and contains instructions on the procedure for pre-enrolment.

Examinations

Examinations and Exclusions Office
Student Centre
Level 1, Carlaw 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
The Examinations and Exclusions Office looks after exam papers, timetables and exclusions.

Fees

Fees Office
Margaret Telfer Building, K07
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 5222
Fax: +61 2 9351 4202
For information on how to pay, where to pay, and if payments have been received.

Graduations

Student Centre
Ground Floor, Carlaw 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
Email: k.fizzell@records.usyd.edu.au

(Grievances) Appeals

Many decisions about academic and non-academic matters are made each year and you may consider that a particular decision affecting your candidature for a degree or other activities at the University may not have taken into account all the relevant matters. In some cases the by-laws or resolutions of the Senate (see Calendar Volume 1) specifically 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,

General University information

at the SRC, and on the University's web site at www.usyd.edu.au/su/planning/policy/index.htm.

If you wish to seek assistance or advice regarding an appeal, contact: SRC, Level 1, Wentworth Building, G01, The University of Sydney, NSW 2006. Phone +61 2 9660 5222. Parking appeals should be addressed to the Manager, Campus Services.

Health Services

Provides full general practitioner services and emergency medical care to the University community.

Email: Director@unihealth.usyd.edu.au
<http://www.unihealth.usyd.edu.au/>

University Health Centre (Wentworth)

Level 3, Wentworth Building, G01
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3484
Fax: +61 2 9351 4110

University Health Centre (Holme)

Ground Floor, Holme Building, A09
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4095
Fax: +61 2 9351 4338

HECS

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

International Student Centre

International Office

Level 2, Margaret Telfer Building, K07
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4161, +61 2 9351 4079
Fax: +61 2 9351 4013

Email: info@io.usyd.edu.au, reception@io.usyd.edu.au
http://www.usyd.edu.au/homepage/exterel/interaaf/int_student_centre.html

Provides assistance with application, admission and enrolment procedures for international students.

International Student Services Unit

Level 2, Margaret Telfer Building
The University of Sydney, K07
NSW 2006 Australia
Phone: +61 2 9351 4749
Fax: +61 2 9351 4013

Email: info@issu.usyd.edu.au
<http://www.usyd.edu.au/su/issu/>

Provides an advisory and counselling service to international students.

Koori Centre

Ground Floor, A22 Old Teachers' College
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2046 General Enquiries
+61 2 9351 7003 Liaison Officer
+61 2 9351 7073 Student Counsellor
Fax: +61 2 9351 6923

Email: adminoff@koori.usyd.edu.au
<http://www.koori.usyd.edu.au/>

Tutorial assistance: access to computers, Indigenous counsellor, Aboriginal Studies library study rooms, Orientation program at the beginning of the year, and assistance in study and learning skills. Education Unit: courses

in Educations for ATSI students. Indigenous Studies Unit: aims to increase the awareness of Indigenous Australian issues through courses across the University.

Language Centre

Level 2, Christopher Brennan Building, A18
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2371
Fax: +61 2 9351 4724

Email: Langcent.enquiries@language.usyd.edu.au
<http://www.arts.usyd.edu.au/langcent>

Provides self-access course materials in over 100 languages; beginners and intermediate courses in Spanish language and Culture; beginners and advanced courses in Celtic languages and cultures.

Library

Fisher Library, F03
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2993 Enquiries/Information Desk
+61 2 9351 3711 Library Hours
+61 2 9351 7273 Borrowers' Cards
+61 2 9351 6692 Holds Enquiries
+61 2 9351 7277 Inter-library Loans
+61 2 9351 2265 Loans, overdues enquiries
Fax: +61 2 9351 2890 Administration
+61 2 9351 7278 Renewals

Email: fishinf@library.usyd.edu.au (gen enquiries)
loaneng@library.usyd.edu.au (loan enquiries)
reqill@library.usyd.edu.au (inter-library loans)
<http://www.library.usyd.edu.au>

In addition to Fisher Library, there are over 20 branch and departmental libraries. Branch and departmental libraries should be contacted direct.

Mathematics Learning Centre

Fourth floor, Room 455, Carlaw, F07
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4061
Fax: +61 2 9351 5797

Email: MLC@mail.usyd.edu.au
<http://www.usyd.edu.au/su/mlc/>

Runs bridging courses in Mathematics at the beginning of the academic year (fees apply), and provides on-going support during the year through individual assistance and small group tutorials.

Part-time, full-time

Students are normally considered as full-time if they have a HECS weighting 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.

Privacy and Freedom of Information

The NSW Freedom of Information (FOI) Act 1989 provides the public with a legally enforceable right of access to University documents, subject to particular exemptions. The Act also enables individuals to ensure that information held about them is accurate, up-to-date, and complete. The University has a number of policies permitting access by individuals to information about themselves without recourse to the Freedom of Information Act.

The University necessarily accumulates a great deal of information on individuals; within the University, access to this is restricted to staff who need the information to carry out their duties. As regards external requests for personal information, it is current policy that the University will

disclose information to a third party if the subject of the information has consented in writing to the disclosure, or if the University has a legal obligation to respond to a request, including a subpoena, and the request is in the appropriate written form.

The University's Privacy Policy is to be reviewed in the light of the recent NSW Privacy and Personal Information Protection Act. Enquiries should be directed to the: Freedom of Information Coordinator and Privacy Officer c/-Archives, Main Quadrangle, A14
Phone: +61 2 9351 4263
Fax: +61 2 9351 7304
Email: trobins@mail.usyd.edu.au
<http://www.usyd.edu.au/su/foi>

Scholarships

Research and Scholarships Office
Room K4.01, Main Quadrangle, A14
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3250
Fax: +61 2 9351 3256
Email: scholars@reschols.usyd.edu.au
<http://www.usyd.edu.au/su/reschols/scholarships>

Student Centre

Ground Floor, Carlaw Building, F07
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3023 General Enquiries
+61 2 9351 4109 Academic Records
+61 2 9351 3023 Discontinuation of Enrolment
+61 2 9351 5057 Handbooks
+61 2 9351 5060 Prizes
Fax: +61 2 9351 5081; +61 2 9351 5350 Academic Records

Student identification cards

In 1999 the University incorporated a photograph into the student identification card. This means that all students have to provide a colour, passport-sized, head and shoulders photograph when they attend on campus sites to have their student ID card laminated. University student ID cards also function as transport concession cards for eligible students, thus eliminating the need for a separate concession card. The endorsement for concession travel will take the form of a hologram sticker attached to the front of the student ID card.

Student organisations

Students' Representative Council
Level 1, Wentworth Building, G01
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9660 5222
+61 2 9660 4756 Secondhand Bookshop
Fax: +61 2 9660 4260
Email: postmaster@src.usyd.edu.au
<http://www.sec.usyd.edu.au>
University of Sydney Union
Box 500, Holme Building, A09
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9563 6000 Switchboard/Enquiries
Fax: +61 2 9563 6239
Email: email@usu.usyd.edu.au
<http://www.usu.usyd.edu.au/>
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.

Sydney University Sports Union
University Sports and Aquatic Centre, G09
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4960
Fax: +61 2 9351 4962
Email: sports_union@susu.usyd.edu.au
Services, facilities and clubs for sport, recreation and fitness.

Women's Sports Association
Sports Centre, A30
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9660 6355, +61 2 9351 2057
Fax: +61 2 9660 0921
Email: secretary@suwsa.usyd.edu.au
<http://www.usyd.edu.au/su/suwsa/welcome.html>

Provides for students, predominantly women, to participate in sport and recreation through the provision of facilities, courses and personnel.

Student Services

<http://www.usyd.edu.au/su/stuserv/>

Accommodation Service
Level 7, Education Building, A35
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3312
Fax: +61 2 9351 8262
Email: accomm@stuserv.usyd.edu.au
<http://www.usyd.edu.au/su/accomm/>
Casual Employment Service
Level 4, Holme Building, A09
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9552 2589
Fax: +61 2 9552 4713

Email: ces@stuserv.usyd.edu.au
http://www.usyd.edu.au/su/cas_emp/

Counselling Service
Level 7, Education Building, A35
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2228
Fax: +61 2 9351 7055
Email: lpoerio@mail.usyd.edu.au
www.usyd.edu.au/su/counsel/
Disability and Welfare Services
Level 7, Education Building, A35
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4554
Fax: +61 2 9351 7055

Email: cstuckin@mail.usyd.edu.au
<http://www.usyd.edu.au/su/disability/>

Financial assistance
Level 7, Education Building, A35
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2416
Fax: +61 2 9351 7055
Email: psweet@mail.usyd.edu.au
http://www.usyd.edu.au/su/fin_assist

Learning Assistance Centre
Level 7, Education Building, A35
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3853
Fax: +61 2 9351 4865
Email: lac@stuserv.usyd.edu.au
<http://www.usyd.edu.au/su/lac/>

Holds free workshops to assist undergraduate and postgraduate students wanting to improve their academic writing and communication skills at university.

Glossary

This glossary both defines terms in common use in the University and gives some useful administrative information.

Enrolment and general terms

Academic year

The period during which teaching takes place, from March to November. The academic year is divided into two semesters.

Advanced standing

(See also: Credit) Recognition of previous experience or studies, meaning that the candidate has satisfied the entry requirements for a unit. Advanced standing does not reduce the number of credit points required to complete the degree course.

Associate Diploma

The undergraduate award granted following successful completion of Associate Diploma course requirements. An Associate Diploma course usually requires less study than a Diploma course.

Assumed knowledge

The level of knowledge expected for entry to a Unit of Study. Unlike prerequisites, levels of assumed knowledge are not compulsory for entry to a Unit. Students who do not have the assumed knowledge may, however, be at a considerable disadvantage and may consider completing a bridging course prior to enrolment. Contact the Learning Assistance Centre, Mathematics Learning Centre, Language Centre or Centre for Continuing Education for further information.

Bachelor's degree

The highest undergraduate award offered at the University of Sydney (other undergraduate awards are Associate Diploma and Diploma). A Bachelor's degree course normally requires three or four years of full-time study (or the part-time equivalent).

Campus

The grounds on which the University is situated. There are eleven campuses of the University of Sydney: Burren Street (Australian Graduate School of Management), Camperdown and Darlington ('Main campus'), Camden (Agriculture and Veterinary Science), Conservatorium (Sydney Conservatorium of Music), Cumberland (Health Sciences and Nursing), Mallett Street (Nursing), Orange Agricultural College, Rozelle (Sydney College of the Arts), St James (Law) and Surry Hills (Dentistry).

Chancellor

(See also: Vice-Chancellor) The non-resident head of the University.

Combined degree course

A program consisting of two degree courses taken together, which usually requires less time than if the courses were taken separately.

Core

(See also: Elective/Option) A Unit of Study that is compulsory for the course or subject area.

Corequisite

A Unit of Study that must be taken with a given Unit. If a corequisite is not successfully completed, it becomes a prerequisite for further study in that subject area.

Course

A complete degree or diploma program.

Credit

(See also: Advanced standing) Recognition of previous studies or studies completed at another institution. If credit is granted then the number of credit points required for completion of the degree course is reduced.

Credit point

A measure of value indicating the contribution each Unit of Study provides towards meeting course completion requirements stated as total credit point value.

Dean

The head of a faculty.

Deferment of enrolment

People who have not previously attended a recognised tertiary institution are normally able to defer commencement of their candidature for one year. Applications are handled by the Admissions Office of the University. Application for deferment must be made during the UAC enrolment week at the 'Deferment' desk in MacLaurin Hall and be accompanied by the 'offer of enrolment' card.

Degree

The award conferred following successful completion of a degree course (for example Bachelor's degree or Master's degree).

Department/School

The academic unit responsible for teaching in a given subject area.

Diploma

The award granted following successful completion of Diploma course requirements. A Diploma course usually requires less study than a degree course. Graduate Diploma courses are for graduates only.

Doctorate

(See also: PhD) The Doctorate and the PhD are the highest awards available at the University of Sydney. 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 of the University of Sydney.

Elective/Option

(See also: Core) A Unit of Study that may be taken towards, but is not compulsory for, a course or subject area.

Enrolment

The process whereby an applicant officially accepts the offer of a place in a particular course. If UAC application is successful, an 'offer of enrolment' card is mailed to the applicant, along with instructions for enrolment. In most cases, the applicant must attend the University on a particular enrolment day or, if unable to attend, must appoint somebody to enrol on his or her behalf. Units of Study (for March Semester or whole of First Year) must be nominated on enrolment day. Academic records and HECS liability calculations are based on the enrolment details, so students must ensure that the Faculty holds correct enrolment information (see also: Variation of enrolment).

Entry requirement

The level of knowledge and/or experience required for entry to a particular Unit of Study.

Faculty

The administrative unit responsible for overseeing satisfactory progress during a degree or diploma course.

Full-time

A study load usually defined in terms of HECS weighting of at least 0.375 each semester.

Intermediate

Faculty of Science: Second-year level.

Junior

First-year level.

Glossary

Laboratory practical

See: Practical.

Lecture

(See also: Tutorial) A class given to a large group of students, during which the lecturer speaks or presents audiovisual material and students take notes.

Major

The subject area(s) in which a student specialises at Senior level. Students usually specialise in one (single major) or two (double major) subject areas. The major is usually recorded on the testamur.

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 undergraduate level.

Mature age

A category of Special Admission applicants who are 21 years or older on 1 March of the year in which they want to study and who do not have the high school qualifications normally required for entry into a course.

Minor

Subject areas in which a student studies, but does not specialise at Senior level.

Orientation period

'O Week' takes place during the week prior to lectures in March semester. 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.

Part-time

A study load usually defined in terms of HECS weighting of less than 0.375 each semester.

PhD

(See also: Doctorate) The Doctor of Philosophy (PhD) and other Doctorate awards are the highest awards available at the University of Sydney. A PhD course is normally purely research-based; the candidate submits a thesis that is an original contribution to the field of study. Entry to a PhD course often requires completion of a Master's degree course. Note that the PhD course is available in most Departments of the University of Sydney.

Postgraduate

The term used to describe a course leading to an award such as Graduate Diploma, 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.

Practical

Similar to a tutorial, during which experiments or other relevant applied activities are carried out.

Prerequisite

A Unit of Study that must be taken prior to entry to a given Unit.

Prohibition

A Unit of Study that cannot be taken with a given Unit.

Recommended reading

Reading material that is suggested but not compulsory for a Unit of Study.

Registrar

The head of the administrative divisions of the University.

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 the Orientation period (O' Week). Note that unlike enrolment, registration is not a formal record of Units attempted by the student.

Resolutions of Senate

Regulations determined by the Senate of the University of Sydney that pertain to degree and diploma course requirements and other academic matters.

School

Similar to a large Department, otherwise a grouping of Departments.

Semester

A period of 14 weeks during which teaching takes place. There are two semesters each year for most faculties. Semesters are named by the month in which they start, typically 'March' and 'July'

Senior

Second-year level or higher.

Faculty of Science: third-year level.

Special Admission

Certain categories of applicants, such as mature-age applicants, students who have experienced educational disadvantage or Aboriginal or Torres Strait Islander applicants, may apply for admission to the University under one of several Special Admission schemes. Contact the Special Admissions office for further information.

Subject area

One or more Units of Study that comprise a particular field of study (eg Japanese or Chemistry).

Textbook

Reading material that the student is expected to own.

Tutorial

(See also: Lecture) A small class consisting of a tutor and up to about 25 students, during which concepts raised in lectures are discussed in detail and may be supplemented with readings, demonstrations and presentations.

UAI

The University Admissions Index (UAI) is the numerical expression of a student's performance in the NSW Higher School Certificate (HSC), which takes into account both assessment and examination results.

UAI cut-off

The UAI of the last student admitted to a course. Some courses have a minimum UAI as an entry requirement.

Undergraduate

The term used to describe a course leading to a diploma or Bachelor's degree. An 'undergraduate' is a student enrolled in such a course.

Unit of Study

A stand-alone component of a degree or diploma course that is recordable on the academic transcript.

Universities Admissions Centre (UAC)

The organisation that processes applications for most NSW undergraduate university and TAFE courses.

Variation of enrolment

The process whereby students officially notify the Faculty of changes regarding the Units of Study they are attending. This must be done by a certain deadline in each semester, to avoid penalties such as 'discontinued' results on the academic transcript (see: Results) or unnecessary HECS charges.

Vice-Chancellor

(See also: Chancellor) The administrative head of the whole University, including academic and administrative divisions.

Costs

Bursary

A sum given to a student who has limited resources or is experiencing financial hardship, ranging from \$100 to \$1000.

Fees (full-fee undergraduate/postgraduate)

Tuition, examination or other fees payable to the University by an enrolled or enrolling student in connection with a course of study or attendance at the University and includes fees payable in respect of the granting of a degree, diploma, associate diploma or other award. It does not include annual

subscription to organisations such as the Union or SRC, or fees payable in respect of residential accommodation.

HECS

All Australian undergraduate students are currently required to contribute to the cost of tertiary education through the Higher Education Contribution Scheme (HECS), which is administered under the Higher Education Funding Act 1988. Under HECS students pay for part of the cost of their higher education and the Commonwealth pays the rest. The amount payable is determined by the units of study a student chooses to undertake in the case of coursework awards, or the attendance (full-time or part-time) in the case of research students.

Prize

Matriculation, undergraduate and postgraduate funding automatically awarded on academic results in courses, yearly examinations or on the recommendation of the Head of Department. There are also prizes for essay writing and composition by anonymous application. Prize values range from \$100 to \$6250.

Scholarship

Matriculation and undergraduate funding by application awarded on UAI results for students enrolling in the first year of a degree course. Postgraduate funding for full-time candidates enrolled in a research degree course with scholarship conditions and benefits varying according to specific awards. The intention is to encourage and support scholarship at the University in general or in targeted areas.

Assessment, Examination, Satisfactory Progress and Graduation

Academic transcript/record

The official record of results for each student (see: Results).

Appeal

The process whereby a student may raise objections regarding results, Faculty decisions or other academic matters.

Assessment

(See also: Examination) The appraisal of a student's ability throughout the semester, by various means such as essays, practical reports or presentations, which counts towards the final mark or grade.

Candidate

Someone studying for a degree or diploma. The term may also be used to describe someone sitting for an examination.

Examination

(See also: Assessment) The appraisal of a student's ability, usually at the end of semester. Most examinations take place on campus under strictly supervised conditions but some Units make use of take-home or open-book examinations.

Exclusion

A ruling by the Faculty, which declares the student ineligible for further enrolment for reasons such as lack of satisfactory progress. Students who wish to re-enrol must show good cause why they should be allowed to re-enrol (see: Show cause and Satisfactory progress).

Grievances

See Appeals.

Grade

A category into which a student's final mark falls (see: Results).

Graduand

A person who has fulfilled the requirements of a degree but is yet to graduate.

Graduate

(See also: Postgraduate) A person who has graduated. Also a term used to describe a course leading to an award such as Master's degree or PhD or a student enrolled in such as course.

Graduation

The ceremony during which degrees are conferred and diplomas awarded.

Honours degree

A Bachelor's degree for which extra work (course work and/or thesis) has been completed, usually requiring an extra year of study.

Mark

(See also: Grade) The numerical result of assessments and/or examinations for a Unit of Study, which may be converted to a grade.

Pass degree

A Bachelor's degree.

Re-enrolment

The process by which continuing students enrol in Units of Study.

Results

The official statement of the student's performance in each Unit of Study attempted, as recorded on the academic transcript, usually expressed as a grade:

High Distinction

A mark of 85% and above

Distinction

A mark of 75-84%

Credit

A mark of 65-74%

Pass

A mark of 50-64%

Pass (Concessional)

A mark of 46-49%. The student is deemed to have completed unit requirements but may not necessarily proceed to the next level.

Fail

A mark of less than 50%

Withdrawn

This is the same as if the candidate had not enrolled in the course concerned. Although the University has a record of the withdrawal, the course and result will not appear on the official academic transcript. There is no HECS liability either. In order to have a course recorded as 'withdrawn', notice must be given by the candidate to the Faculty office on or before the deadline. Refer to the section on degree regulations.

Discontinued with Permission

This does not count as an attempt at the particular course, but does appear on the candidate's academic record. A candidate may have enrolment recorded as 'discontinued with permission' where: (1) notice is given to the faculty office on or before the deadline or; (2) after the deadline, evidence is produced of serious illness or misadventure. Refer to the section on degree regulations for deadlines. Discontinuation with permission does not mean that the student's progress is considered to be satisfactory.

Discontinued

This counts as an unsuccessful attempt at the course concerned and appears on the candidate's academic record. Where notice is given after the deadline for 'discontinued with permission' but before the last day of lectures for the course, the result is 'Disc.'. Refer to the section on degree regulations for deadlines.

Absent Fail

If the candidate misses the deadline for 'discontinued' and does not sit the final exam, the result is 'absent fail'.

Satisfactory progress

A minimum standard of performance required for continuation of enrolment. Senate resolutions rule that if a student fails or discontinues a year of candidature or a Unit of Study more than once then he or she is ineligible for re-enrolment (see: Exclusion and Show cause). Note that some faculties may have alternative or additional requirements for satisfactory progress.

Show cause

The Faculty may require a student to show good cause why he or she may be allowed to continue in the degree or diploma

Glossary

course, where requirements for satisfactory progress have not been met (see: Exclusion and Satisfactory progress).

Special consideration

The process whereby enrolled students who have experienced significant educational disadvantage may have their assessment deadlines or grades revised.

Study Vacation (Stuvac)

The week prior to the examination period in each semester, during which no classes are held.

Supplementary examination

An extra or alternative examination taken by a student who has experienced significant educational disadvantage during semester or the examination period. Note that some faculties do not offer supplementary examinations (see also: Special consideration).

Suspension of candidature

A complete break in the studies of an enrolled student, usually for a period of one year. Applications are handled by the Faculty office. (Those wishing to postpone commencement of a course need to apply for deferment, see: Deferment of enrolment).

Testamur

The document given to the graduand at graduation.

Thesis

A substantial piece of written work (sometimes called a dissertation) by a student, normally a candidate for an Honours degree or a higher award (such as Master's degree or PhD).

Weighted Average Mark (WAM)

A numerical expression of a student's performance throughout his or her degree program, usually assigning more 'weight' to Senior or Honours years. Note that the WAM calculation may differ for purposes such as eligibility for various scholarships and will vary from faculty to faculty.

Index

A

academic dress, 30
accommodation, 30
Accommodation Service, 41
Admissions Office, 39
Alumni Association, 36
Animal Genetics VETS 2001, 6
Animal Husbandry IA VETS 1006, 5
Animal Husbandry IB VETS 1019, 5
Animal Husbandry Practical Report VETS 4003, 10
Animal Nutrition 3 VETS 3010, 7
Animal Nutrition 4 VETS 4012, 9
appeals, 39
Applied Reproduction and Obstetrics VETS 4023, 9
Applied Veterinary Anatomy VETS 4014, 9

B

Badham Library, 36
Biochemistry 2A VETS 2031, 6
Biochemistry 2B VETS 2032, 6
Bird Health and Production VETS 5002, 11
Bookshop (Co-op), 39

C

careers information, 39
Cattle Health and Production VETS 5014, 11
Cell Biology IA VETS 1013, 5
Cell Biology IB VETS 1018, 5
CHEM 1405 Chemistry, 5
Chemistry CHEM 1405, 5
clinical experience, 3
Clinical Practice 4 VETS 4010, 10
Clinical Practice 5 VETS 5010, 11
Counselling Service, 41

D

Disability and Welfare Services, 41
discontinuation, 30
Doctor of Philosophy, 26
Doctor of Veterinary Science, 26

E

employment, casual, 41
enrolment and pre-enrolment, 39
Essay VETS 5017, 11
Examinations and Exclusions Office, 39

F

Fees Office, 39
financial assistance, 30, 41
foundations, 30
freedom of information, 40

G

Graduate Diploma in Veterinary Clinical Studies, 25
Graduations office, 39
grievances, 39

H

Health Services, 40
Horse Medicine VETS 5030, 11

I

International Office, 40
International Student Services Unit, 40

K

Koori Centre, 40

L

Language Centre, 40
Learning Assistance Centre, 41

Library (Fisher), 40
library, Badham, 36

M

Master of Science in Veterinary Science, 25
Master of Veterinary Clinical Studies, 25
Master of Veterinary Science, 25
Master of Veterinary Studies, 25
Mathematics Learning Centre, 40

P

part-time enrolment, 30
Pig Health and Production VETS 5016, 12
Postgraduate scholarships, 26
privacy and freedom of information, 40
Professional Practice IA VETS 1021, 6
Professional Practice IB VETS 1017, 6

R

Research and Scholarships Office, 41

S

Scholarships Office, 41
Services, Student, 41
Sheep Health and Production VETS 5009, 12
Special Medicine VETS 5018, 12
Sports Union, 41
Sports, Women's Association, 41
Student Centre, 41
student identification cards, 41
Students' Representative Council, 41
Suspension of candidature, 30

U

Undergraduate scholarships and prizes, 33
Union, University of Sydney, 41
University of Sydney Library, 36
University of Sydney Union, 41

V

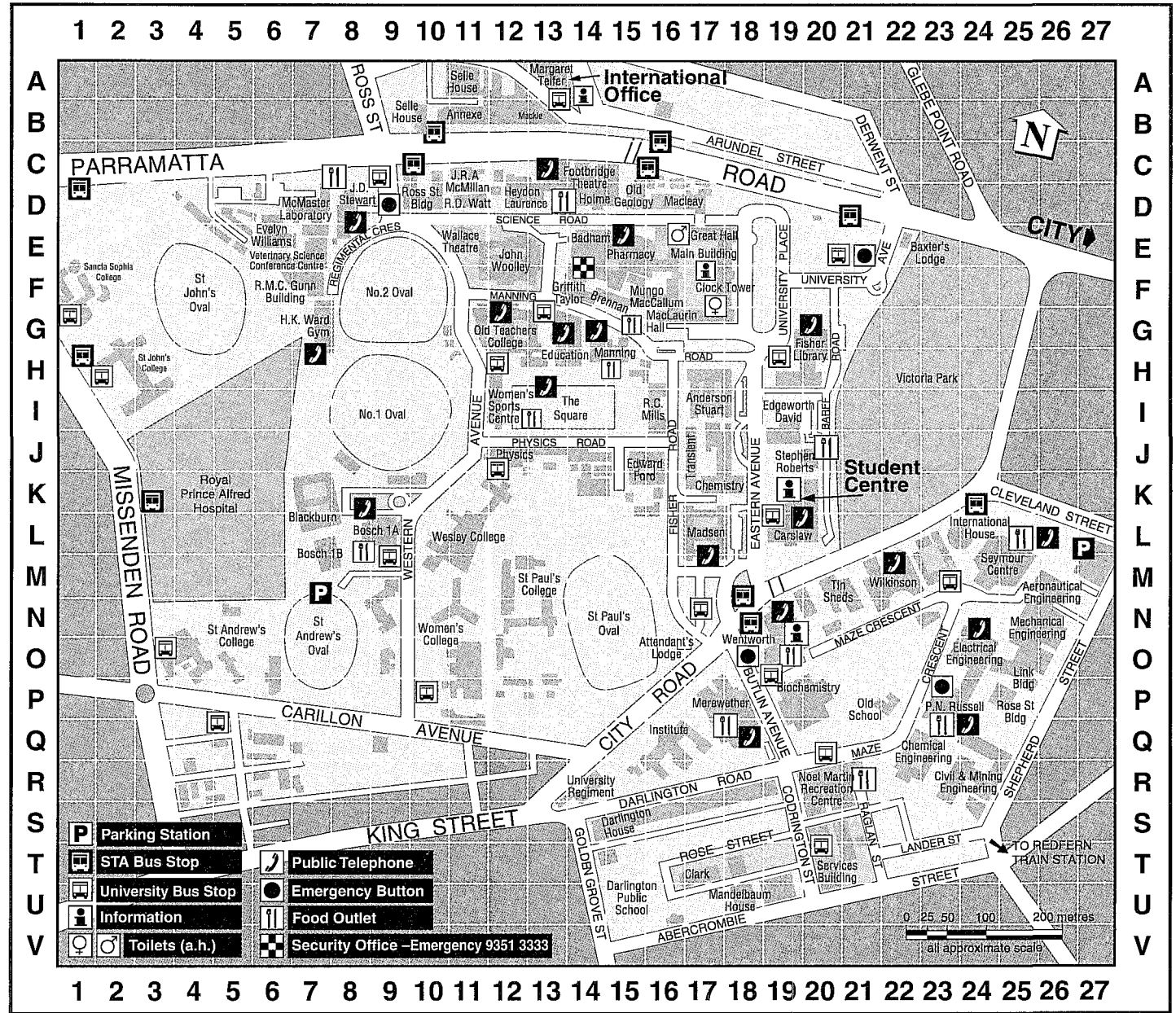
Veterinary Anaesthesia 3 VETS 3029, 8
Veterinary Anaesthesia 4 VETS 4006, 10
Veterinary Anatomy & Physiology IA VETS 1014, 6
Veterinary Anatomy & Physiology IB VETS 1020, 6
Veterinary Anatomy and Histology 2A VETS 2017, 6
Veterinary Anatomy and Histology 2B VETS 2027, 7
Veterinary Clinical Pathology VETS 4016, 10
Veterinary Embryology VETS 2005, 7
Veterinary Medicine 3 VETS 3024, 8
Veterinary Medicine 4 VETS 4015, 10
Veterinary Microbiology 3A VETS 3001, 8
Veterinary Microbiology 3B VETS 3003, 8
Veterinary Parasitology 3 VETS 3014, 8
Veterinary Parasitology 4 VETS 4018, 10
Veterinary Pathology 2 VETS 2025, 7
Veterinary Pathology 3 VETS 3004, 8
Veterinary Pharmacology & Toxicology 3B VETS 3034, 9
Veterinary Pharmacology and Toxicology 3A VETS 3033, 9
Veterinary Physiology 2A VETS 2061, 7
Veterinary Physiology 2B VETS 2062, 7
Veterinary Physiology 3 VETS 3008, 9
Veterinary Public Health VETS 5004, 12
Veterinary Radiology 3 VETS 3030, 9
Veterinary Radiology 4 VETS 4009, 10
Veterinary Research VETS 4031, 13
Veterinary Research VETS 4033, 13
Veterinary Research VETS 4035, 13
Veterinary Research VETS 4039, 13
Veterinary Surgery 3 VETS 3031, 9
Veterinary Surgery 4 VETS 4017, 10
Veterinary Surgery 5 VETS 5005, 12
VETS 1006 Animal Husbandry IA, 5
VETS 1013 Cell Biology IA, 5
VETS 1014 Veterinary Anatomy & Physiology IA, 6
VETS 1017 Professional Practice IB, 6
VETS 1018 Cell Biology IB, 5
VETS 1019 Animal Husbandry IB, 5
VETS 1020 Veterinary Anatomy & Physiology IB, 6
VETS 1021 Professional Practice IA, 6
VETS 2001 Animal Genetics, 6
VETS 2005 Veterinary Embryology, 7
VETS 2017 Veterinary Anatomy and Histology 2A, 6
VETS 2025 Veterinary Pathology 2, 7
VETS 2027 Veterinary Anatomy and Histology 2B, 7

Index

VETS 2031 Biochemistry 2A, 6
VETS 2032 Biochemistry 2B, 6
VETS 2061 Veterinary Physiology 2A, 7
VETS 2062 Veterinary Physiology 2B, 7
VETS 3001 Veterinary Microbiology 3A, 8
VETS 3003 Veterinary Microbiology 3B, 8
VETS 3004 Veterinary Pathology 3, 8
VETS 3008 Veterinary Physiology 3, 9
VETS 3010 Animal Nutrition 3, 7
VETS 3014 Veterinary Parasitology 3, 8
VETS 3024 Veterinary Medicine 3, 8
VETS 3029 Veterinary Anaesthesia 3, 8
VETS 3030 Veterinary Radiology 3, 9
VETS 3031 Veterinary Surgery 3, 9
VETS 3033 Veterinary Pharmacology and Toxicology 3A, 9
VETS 3034 Veterinary Pharmacology & Toxicology 3B, 9
VETS 4003 Animal Husbandry Practical Report, 10
VETS 4006 Veterinary Anaesthesia 4, 10
VETS 4009 Veterinary Radiology 4, 10
VETS 4010 Clinical Practice 4, 10
VETS 4012 Animal Nutrition 4, 9
VETS 4014 Applied Veterinary Anatomy, 9
VETS 4015 Veterinary Medicine 4,10
VETS 4016 Veterinary Clinical Pathology, 10
VETS 4017 Veterinary Surgery 4, 10
VETS 4018 Veterinary Parasitology 4, 10
VETS 4023 Applied Reproduction and Obstetrics, 9
VETS 4031 Veterinary Research, 13
VETS 4033 Veterinary Research, 13
VETS 4035 Veterinary Research, 13
VETS 4039 Veterinary Research, 13
VETS 5002 Bird Health and Production, 11
VETS 5004 Veterinary Public Health, 12
VETS 5005 Veterinary Surgery 5, 12
VETS 5009 Sheep Health and Production, 12
VETS 5010 Clinical Practice 5, 11
VETS 5014 Cattle Health and Production, 11
VETS 5016 Pig Health and Production, 12
VETS 5017 Essay, 11
VETS 5018 Special Medicine, 12
VETS 5030 Horse Medicine, 11

University of Sydney Directory

- Academic & Executive Services **16E**
- Accounting **17P**
- Accommodation Service **13G**
- Administrative Policy & Strategic Planning Div'n **16E**
- Administrative Support Services Division **16E**
- Aeronautical Engineering **26M**
- Agricultural Chemistry & Soil Science **10D**
- Agricultural Economics **HD**
- Agriculture Faculty Office **11C**
- Australian Graduate School of Management **Burren St**
- Alma Street Glasshouse **23N**
- Alumni Relations **16E**
- Anaesthesia **7K**
- Anderson Stuart Bldg **17I**
- Anatomy & Histology **17I**
- Ancient History & Classics **16F**
- Animal Health **Camden**
- Animal Science **7F**
- Anthropology **16F**
- Archaeology **16F**
- Architectural & Design Science **22M**
- Architecture, Dept & Faculty Office **22M**
- Architecture, Planning & Allied Arts **22M**
- Archives **19H**
- Art History & Theory **15I**
- Art Workshop **20M**
- Arts Faculty Office **16F**
- Asset Management **13A**
- Asian Studies **14F**
- Attendant's Lodge **16O**
- Badham Bldg & Library **14E**
- Banks see Financial institutions
- Baxter's Lodge **22E**
- Behavioural & Social Sciences in Nursing **Mallett St**
- Behavioural Science **Cumberland**
- Behavioural Sciences in Medicine **7K**
- Biochemistry **20P**
- Biological Sciences **15D**
- Biomedical Science **Cumberland**
- Blackburn Bldg **7K**
- Bookshops
 - Medical **7K**
 - SRC Secondhand **19N**
 - University Co-operative **21R**
- Bosch IA (lecture theatres) **8L**
- Bosch IB Bldg **7M**
- Brennan, C, Bldg **15F**
- Budget Office **16E**
- Business Liaison Office **12E**
- Business Services **19U**
- Campus Services **20T**
- Careers Centre **13B**
- Carlsaw Bldg **19L**
- Cashiers **13A**



Maps

Central Services **20T**
 Central Records Office **16E**
 Centre for English Teaching **Mallett St**
 Centre for Teaching & Learning **19L**
 Chancellor's Committee Shop **17F**
 Chaplains' Centre **10G**
 Chemical Engineering **22Q**
 Chemistry **17K**
 Child Care
 Boundary Lane **16U**
 Carillon Avenue **9Q**
 Laurel Tree House (Glebe) **16B**
 Union (Darlington) **21S**
 Civil & Mining Engineering **24R**
 Clark Bldg **17T**
 Clinical Nursing **Mallett St**
 Clinical Ophthalmology & Eye Health **Sydney Eye Hospital**
 Clock Tower **17F**
 Clinical Trials **Mallett St**
 Communication Disorders **Cumberland**
 Community & Mental Health Nursing **Cumberland**
 Community Health **Cumberland**
 Community Medicine **15K**
 Computer Sales
 Computer Sales & Service **23U**
 Computer Shop **21R**
 Computer Science, Basser Dept **17L**
 Continuing Education, Centre for **13B**
 Coppleson Postgraduate Medical Institute **9K**
 Copy Centre **21R**
 Counselling Service **13G**
 Crop Sciences **13F**
 Darlington House **14S**
 Dentistry Faculty Office & Dental Studies **Surry Hills**
 Development Office **16E**
 Disability Services **13G**
 Econometrics **17P**
 Economic History **17P**
 Economics, Dept & Faculty Office **17P**
 Edgeworth David Bldg **19J**
 Education Bldg & Faculty Office **13G**
 Educadonal Development & Evaluation **15K**
 Educational Psychology, Literacies & Learning **13G**
 Edward Ford Bldg **15K**
 Electrical Engineering **24D**
 Employment Service, Casual **14C**
 Engineering Faculty Office **25D**
 English **12E**
 Equal Employment Opportunity Unit **13A**
 Evelyn Williams Bldg **6E**
 Experimental Medicine **7K**
 External Relations Division **16E**
 Facilities Planning, Office of **20T**
 Family & Community Health in Nursing **Mallett St**
 Financial institutions
 Commonwealth Bank **14D**

Credit Union **14D**
 National Australia Bank **15E, 19N**
 Finance, Dept of **16Q**
 Financial Management & Reporting **13A**
 Financial Services Division **13A**
 Financial Systems Development **13A**
 Fine Arts (Art History & Theory)) **15I**
 Fisher Library **19G**
 Footbridge Theatre **14C**
 French Studies **15F**
 Garage, University **21T**
 Gender Studies **16G**
 General Practice **Westmead Hospital**
 Geography **16Q**
 Geology & Geophysics **19J**
 Germanic Studies **15F**
 Government & Public Administration **17P**
 Great Hall **18E**
 Greek, Modern **14F**
 Griffith Taylor Bldg **14F**
 Gunn, R. M. C, Bldg **7F**
 Health Information Management **Cumberland**
 Health Sciences Faculty Office **Cumberland**
 Health Service (Holme, Wentworth Bldg) **14C, 19N**
 History **15G**
 History & Philosophy of Science **19L**
 Holme Bldg **14D**
 Industrial Relations, Dept of **16Q**
 Infectious Diseases **7K**
 Information Technology Services **19U**
 Institute Bldg **16Q**
 International Office, International Student Services **13A**
 International House **23L**
 International Preparation Program **13B**
 Italian **15I**
 Jurisprudence **St James**
 Koori Centre **12G**
 Law Dept & Faculty Office **Stjames**
 Learning Assistance Centre **13G**
 Life Sciences in Nursing **Mallett St**
 Linguistics **16J**
 Link Bldg **25D**
 Lost Property **14F**
 Mackie Bldg **13B**
 MacLaurin Hall **16G**
 Macleay Bldg & Museum **16D**
 Madsen Bldg **17L**
 Mail Room (Internal) **20T**
 Main Bldg **17F**
 Management Studies **Burren St**
 Mandelbaum House **18U**
 Manning House **14H**
 Margaret Telfer Bldg **13A**
 Marketing, Dept of **16Q**
 Marketing & Publications **16E**
 Mathematics & Statistics **19L**
 McMaster Bldg **7D**

McMillan, J. R. A., Bldg **11C**
 Mechanical & Aeronautical Engineering Bldg **25N**
 Mechanical Engineering **25N**
 Media Office **16E**
 Medical Radiation Technology **Cumberland**
 Medicine, Dept of **7K**
 Medicine, Faculty of **15K**
 Merewether Bldg **17P**
 Microbiology **20P**
 Mills, R. C, Bldg **16I**
 Mungo MacCallum Bldg **15G**
 Music, Dept of **24M**
 Nicholson Museum **16G**
 Nursing Therapeutics **Cumberland**
 Obstetrics & Gynaecology **9K**
 Occupational Therapy **Cumberland**
 Old Geology Bldg **15D**
 Old School Bldg **21P**
 Old Teachers' College Bldg **12G**
 Operations Accounting **13A**
 Orange Agricultural College **Orange Agricultural College Campus**
 Orthoptics **Cumberland**
 Paediatrics & Child Health **New Children's Hospital**
 Pathology **7K**
 Personnel Services **13A**
 Pharmacology **7L**
 Pharmacy **15E**
 Philosophy **17G**
 Photowise Imaging **20T**
 Physics **13J**
 Physiology **17I**
 Physiotherapy **Cumberland**
 Planning Support Office **16E**
 Post Office **15E**
 Printing Services, University **20T**
 Professional Studies **13G**
 Properties & Investments **13A**
 Prospective Students Unit **12B**
 Psychological Medicine **4K**
 Psychology **14F**
 Purchasing **13A**
 Publications Office **16E**
 Public Health & Community Medicine **15K**
 Quadrangle **17F**
 Queen Elizabeth II Research Institute **9K**
 Regiment, University **14R**
 Religion, School of Studies in **12E**
 Research & Scholarships **16E**
 Revenue Services **13A**
 Risk Management **13A**
 Rose Street Bldg **24P**
 Ross Street Bldg **10D**
 Russell, Peter Nicol, Bldg **23P**
 St Andrew's College **5D**
 St John's College **3H**
 St Paul's College **12N**

CAMDEN CAMPUS

Department of Veterinary Clinical Sciences
Department of Animal Science
Camden Administration
Camden Farms

