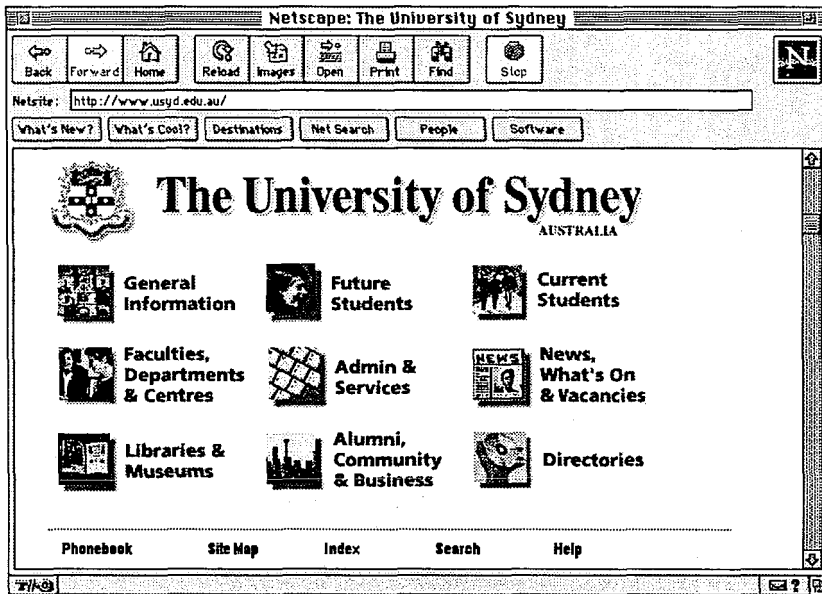




The University of Sydney

Faculty of
Veterinary Science
Handbook 1998



The University's homepage tells you all 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 faculties and departments.

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

The University of Sydney
N.S.W. 2006
Telephone (02) 9351 2222

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The information in this Handbook is subject to approval and/or change by the Faculty or the University. Students should always check the accuracy of the information with Faculty staff.

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Semester and Vacation Dates 1998-99*

Semester	Day	1998	1999
February Semester lectures begin	Monday	2 March	1 March
Easter recess			
Last day of lectures	Thursday	9 April	1 April
Lectures resume			
Years 1 and 3	Monday	20 April	12 April
Years 2, 4 and 5	Monday	4 May	26 April
Study vacation			
Years 1-4 1 week beginning	Monday	15 June	14 June
Year 5 approximate date	Thursday	11 June	10 June
Examinations commence			
Years 1-4	Monday	22 June	21 June
Year 5	Monday	15 June	14 June
July Semester lectures begin	Monday	27 July	26 July
Mid-semester recess			
Last day of lectures			
Years 1, 2 and 3	Friday	18 September	17 September
Years 4 and 5	Friday	11 September	10 September
Lectures resume			
Years, 1, 2 and 3	Tuesday	6 October	5 October
Years 4 and 5	Tuesday	6 October	5 October
Study vacation			
1 week beginning	Monday	9 November	8 November
Examinations commence	Monday	16 November	15 November
*There may be some variation to the above semester dates for some courses			

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1. Welcome



Congratulations on your success in being selected from the many applicants seeking enrolment in the Faculty of Veterinary Science. I hope your experience here, in study and learning, will be enjoyable and rewarding. Members of the Faculty are eager to assist you in all aspects of your university education. Please do not hesitate to consult us on any matter where we may be able to help. The University also provides many services for assisting students with medical, financial, emotional and learning difficulties. The Sub-Dean for Student Welfare or the Faculty Secretary are able to help you make contact with these central services.

Those of us who study, teach or practise in veterinary science are privileged to work with animals. We should be mindful of the obligations and responsibilities this imposes on us. Veterinary students and scientists naturally have a humane and respectful attitude to the animals we care for and study. The privilege of working with animals in education and research is an immensely valuable one. To justify and maintain that privilege we need to ensure that the care of animals in our charge is of the highest standard.

In this handbook you will find descriptions of the study requirements for the B VSc degree as well as for postgraduate degrees in the Faculty. The program of study for the BVSc degree covers many topics in basic and applied animal biology. Graduates find that the specialised knowledge and skills they acquire over five years opens up a wide range of career paths. Nevertheless, the Faculty is aware that courses in veterinary science can always be improved. A review of the undergraduate curriculum is currently in progress and the modifications in course design that will follow will aim to enhance the efficiency of teaching and learning.

During your time as an undergraduate, you may become very interested in some aspect of veterinary science. The Faculty provides an opportunity for students to interrupt their studies with a year of supervised research in a particular field, leading to the award of the BSc(Vet) degree. The requirements for this one-year research degree are also described in this handbook.

On behalf of all the staff I extend a very warm welcome to those entering the Faculty of Veterinary Science and wish you every success and enjoyment in your studies

A handwritten signature in black ink, appearing to read 'D.R. Fraser'. The signature is stylized and cursive.

D.R. Fraser

Dean

2. Guide to Departments in the Faculty

THE FACULTY OF VETERINARY SCIENCE

J. D. Stewart Building B01
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URL <http://www.usyd.edu.au/su/vetfac>

Dean

Professor David R. Fraser

Pro-Dean

Professor Michael M. Bryden

Associate Deans

Animal Welfare

Dr Robert J. Dixon

Camden Campus

Associate Professor Garry M. Cross

Postgraduate Education

Professor Reuben J. Rose

Professional and Community Relations

Research

Professor Alan J. Husband

Undergraduate Education

Sub-Dean Student Welfare

Dr G. Henry Collins

Secretary to the Faculty

Mary Haswell

Administrative Assistants

Tess La-Lande

Patricia Moroney

Lyn Robson

Finance Officer

Jenny Recio

DEPARTMENTS

Animal Science

Sydney B19

Telephone +61 (02) 9351 2464

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Head of Department Associate Professor Grant M. Stone

Camden C01

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Veterinary Anatomy and Pathology B01

Telephone +61 (02) 9351 2446

Facsimile +61 (02) 9351 6880

e-mail mbryden@extro.ucc.su.oz.au

URL <http://www.vetpath.usyd.edu.au>

Head of Department Professor Michael M. Bryden

Veterinary Clinical Sciences

Sydney B10

Telephone +61 (02) 9351 2443

Facsimile +61 (02) 9351 4261

e-mail proberts@vetc.usyd.edu.au

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Head of Department

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Facsimile +61 (02)9351 1618

e-mail anhealth@camden.usyd.edu.au

URL <http://www.camden.usyd.edu.au/anh1th.html>

3. Brief Introduction to each Undergraduate Degree and Diploma Offered

Bachelor of Veterinary Science (BVSc)

(see also page 16)

The BVSc takes five years to complete and may be awarded with first or second class Honours. First year is concerned with the basic sciences and pre-clinical subjects. Some time is also spent at the University farms, Camden, where students are given training in the practical aspects of animal husbandry. Second and third years concentrate on preclinical and paraclinical subjects, although introductory units of study in veterinary medicine and surgery are commenced towards the end of third year. Students in fourth year continue their studies in the clinical subjects. Clinical exposure to large and small animals commences in fourth year and continues in fifth year at the Rural Veterinary Centre, Camden. Students reside at Camden in fifth year.

Clinical experience

Sydney University Veterinary Teaching Hospital

Material from lectures in Veterinary Medicine and Veterinary Surgery is augmented by practical experience in the diagnosis and treatment of medical and surgical disorders in horses, dogs, cats, small cage birds and miscellaneous pets. Special instruction is given in practical therapeutic, postoperative care, prescription writing, case record keeping, hospital administration and veterinarian-client relationships. Students are rostered for duties in the medical and surgical outpatients departments of the hospital and in the clinical pathology laboratory.

Rural Veterinary Centre

During the period of residence at Camden in fifth year, students are introduced to veterinary practice among farm animals. This is achieved by practical work in groups in the ambulatory clinic, hospital and clinical pathology laboratory of the Rural Veterinary Centre.

Students are able to observe disease problems under field conditions and obtain practical experience in the application of clinical pathology techniques utilised in their investigation.

Assumed knowledge and additional selection criteria

Two unit Maths and either 2 unit Chemistry and 2 unit Physics or 4 unit Science at the NSW Higher School Certificate or equivalent.

Bachelor of Science (Veterinary) (BSc(Vet))

(see also page 17)

This one year course is taken after the third or the fourth year, and involves veterinary science research and a small project leading to the production of a thesis.

4. Units of Study Descriptions

Introduction and Information

The Faculty of Veterinary Science provides excellence in undergraduate and graduate training. The significant number of internationally recognised scholars who have trained at the Faculty reflects its commitment to high quality research.

The Bachelor of Veterinary Science takes five years to complete and may be awarded with first or second class Honours. First year is concerned with the basic sciences and preclinical subjects. Some time is also spent at the University farms, Camden, where students are given training in the practical aspects of animal husbandry. Second and third years concentrate on preclinical and paraclinical subjects, although introductory Units of Study in veterinary medicine and surgery are commenced towards the end of third year. Students in fourth year continue their studies in the clinical subjects. Clinical exposure to large and small animals commences in fourth year and continues in fifth year at the Rural Veterinary Centre, Camden. Students reside at Camden in fifth year.

Unit of Study Information

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.

Unit of Study coordinators

The coordinator for each Unit of Study is indicated. 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. Printed book lists are available from the Faculty Office.

English expression

The Faculty of Veterinary Science expects students to be proficient in both written and spoken English expression. Students with problems in this area should consult the following books and seek advice from members of Faculty:

H.W. Fowler A Dictionary of Modern English Usage

W. Strank et al. The Elements of Style

The Language Study Centre and the Centre for Teaching and Learning offer help in this area.

Sydney University Veterinary Teaching Hospital

Dr David Church, Superintendent

Students will attend the Veterinary Teaching Hospital after July Semester of fourth year and in certain periods of fifth year. In this way practical experience is obtained in both the diagnosis and treatment of medical and surgical disorders in dogs, cats and other animals. Students receive special instruction and experience in anaesthetics, surgery, radiology, post-operative care, internal medicine, therapeutics, veterinarian-client relationships and case record keeping. Students are rostered for duties within the various sections of the hospital and clinical pathology laboratory.

Rural Veterinary Centre

Assoc Prof David Hodgson, Superintendent

During their period of residence at Camden in fifth year, students will be introduced to veterinary practice among farm and companion animals. This is achieved by practical work in groups in the ambulatory clinic, hospital and clinical pathology laboratory of the Rural Veterinary Centre. Students will be able to observe disease problems under field conditions and obtain practical experience in the application of clinical pathology techniques utilised in the investigation of these diseases.

During rotations through the various services of the Rural Veterinary Centre, students will be assessed on a weekly basis by their supervising clinician.

Practical Work Requirement

Students are required to do practical work in livestock husbandry.

During the vacation periods from the end of July Semester, fourth year, students will be rostered to attend the Veterinary Teaching Hospital and Rural Veterinary Centre for practical experience in veterinary medicine and surgery. All students will spend three weeks at both locations. Students are also required to undertake specified extramural clinical practical work which will be arranged by the Faculty Office.

Veterinary Anatomy

Teacher/Coordinator: Professor Michael Bryden

Veterinary Anatomy is taught in the first, second and fourth years of the veterinary degree course. It covers the anatomy of domestic animals including the horse, ox, sheep, pig, dog, cat and domestic fowl.

The Units of Study are VETS 1010 Veterinary Cytology, VETS 1000 Veterinary Anatomy and Histology I, VETS 2007 Veterinary Anatomy and Histology II, VETS 2018 Veterinary Embryology and VETS 4013 Veterinary Anatomy III.

VETS 1000 Veterinary Anatomy and Histology I

13 credit points

Teacher/Coordinator: Dr Paul Hopwood

When Offered: February & July

Classes: February Semester: lectures -19 in Gross Anatomy and 14 in Histology; practical classes -12 in Gross Anatomy and 9 in Histology. July Semester: lectures - 35 in Gross Anatomy and 17 in Histology; practical classes - 22 in Gross Anatomy and 15 in Histology.

Assessment: Examination February Semester (20% of assessment). Theory and practical examinations July Semester (80% of assessment).

A Unit of Study in the microscopic and gross anatomy of the dog. The material is presented on a body system by body system basis.

Practical Work:

Dissection of the dog and microscopic examination of dog tissues.

Textbooks:

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

Dellman, H, Textbook of Veterinary History, 4th edn, Lea & Febiger, 1993.

Department of Veterinary Anatomy and Pathology practical class manual.

VETS 1001 Animal Husbandry

8 credit points

Teacher/Coordinator: Assoc Prof Wayne Bryden

When Offered: February & July

Classes: 22 lectures February Semester; 26 lectures and 72 hours practical classes July Semester.

Assessment: Examinations both February and July Semesters.

A Unit of Study of 48 lectures covering aspects of animal management and production and practical classes in animal husbandry and handling.

The lectures include:

horses — their characteristics and management;

cattle, sheep, pigs and poultry industries in Australia and production of meat, milk, wool and eggs;

cats, dogs and small animals — breeds and their management.

Practical Work:

9 full day practical classes are conducted July Semester at the University Farms, Camden. 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, F., 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.

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

VETS 1024 Introductory Biology

3 credit points

Teacher/Coordinator: Dr Mary Peat

When Offered: July

Classes: 39 lectures

Assessment: 3 hour examination at end of July Semester.

A Unit of Study on aspects of biology serving as a basis for, and supplementary to, other Units of Study in Veterinary Science.

Topics include: invertebrates (10 lectures), vertebrates (14 lectures), plant ecology (6 lectures), ecology (4 lectures), and behaviour (5 lectures).

VETS 1012 Biometry

3 credit points

Teacher/Coordinator: Dr Peter Thomson

When Offered: February

Classes: 28 lectures and 14 practical classes

Assessment: Quizzes (20%) practical tests (20%), assignment (10%) and written examination (50%) February Semester.

Research in veterinary science requires experiments to be planned and analysed as sensibly and as efficiently as possible. The study of biometry shows how simple statistical principles can be used to this end.

In addition to discussion of standard techniques of design and analysis, emphasis will be placed on developing an understanding of the important concepts. This means that a minimum of mathematical detail is required during the Unit of Study.

Lectures are complemented by computer-based practicals, which allow students to practise and develop skills in applying statistical methods to real problems.

Practical Work:

Laboratory computing classes each week for general computing and statistical analysis.

CHEM 1403 Chemistry

8 credit points

Teacher/Coordinator: Dr Ray Pierens

Assumed Knowledge: Chemistry 2 Unit or the Chemistry component of 3/4 Unit Science HSC courses.

When Offered: February & July

Classes: 41 lectures, 10 practical classes and 14 tutorials February Semester; 27 lectures and 13 tutorials July Semester.

Assessment: Theory examinations February and July Semesters (contributing a maximum of 46% and 38% respectively to the end of year mark) together with laboratory quizzes and assessments (16%).

This is a two 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.

Fully detailed information is available from the School of Chemistry.

Lectures

A Unit of Study of 68 lectures comprising 41 lectures in inorganic and physical chemistry and 27 lectures in organic chemistry, with illustrations from biological areas.

Practical Work:

Ten 3 hour sessions February Semester.

Textbooks:

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

VETS 1010 Veterinary Cytology

3 credit points

Teacher/Coordinator: Dr Paul Hopwood

When Offered: February

Classes: 12 lectures and six 2 hour practical classes

Assessment: 1. Microscope proficiency test, 2. Light microscopy essay assignment, 3. Theory paper and 4. Practical examination

A Unit of Study into the morphology of cells.

Practical Work:

Microscopic examination of cells

Textbooks:

Dellman, H., Textbook of Veterinary Histology, 4th edn, Lea & Febiger, 1993.

Department of Veterinary Anatomy and Pathology practical class manual.

VETS 1016 Pastoral Botany and Agronomy

3 credit points

Teacher/Coordinator: Mr Dennis de Kantzow

When Offered: February

Classes: 20 lectures and 22 practical classes

Assessment: 2 hour examination, 0.5 hour practical test, plant collection and assessment of practical handbook February Semester.

This Unit of Study consists of 42 hours of lectures and practical classes. It includes the identification of pasture grasses, legumes and weeds and the common poisonous plants. The agronomic and ecological principles of the production and utilisation of native and sown grassland communities will be explained. Topics covered include pasture growth and the environment, pasture quality, substances injurious to animal health, pasture improvement and management. A plant collection is part of the Unit of Study.

Practical Work:

Plant collection and laboratory study of plant specimens.

Textbooks:

No textbook required. Reference book list in handbook issued during Unit of Study.

VETS 1007 Physics

7 credit points

Teacher/Coordinator: Mrs Rosemary Millar

Assumed Knowledge: Physics 2 Unit or the Physics section of 4 Unit Science HSC courses.

When Offered: February & July

Classes: 39 lectures and 12 tutorials February Semester; 26 lectures, 10 practical sessions and 12 tutorials July Semester.

Assessment: Examinations both February and July Semesters 75%, Laboratory 20%, Assignments 5%.

The physics Unit of Study consists of lectures and laboratory work. It emphasises the concepts of physics and, where possible, shows the application of physics in the biological sciences. There are five sections: forces and energy, thermal physics, properties of matter, physics of diagnostic tools and electricity and magnetism. The Unit of Study is taught on the assumption that students have completed Mathematics 2 Unit and either Physics 2 Unit or the Physics section of the Science 4 Unit course for the Higher School Certificate. Tutorials are available for those who have not studied physics before.

Practical Work:

Ten 3 hour practical sessions July Semester.

Textbooks:

Physics 1 Laboratory Manual, Veterinary Science, School of Physics, 1998.

Kane and Sternheim, Physics, Wiley, 1988.

VETS 1015 Introductory Veterinary Science

Teacher/Coordinator: Dr Henry Collins and Others

When Offered: February

Classes: Ten 1 hour classes

A non compulsory Unit of Study of ten 1 hour classes open to all first year students. The classes include talks by eminent veterinarians in a variety of occupations and activities designed to help students adjust to academic life in the Faculty and University.

VETS 2007 Veterinary Anatomy and Histology II

20 credit points

Teacher/Coordinator: Prof Michael Bryden

Prerequisite: VETS 1000 Veterinary Anatomy and Histology I and VETS 1010 Veterinary Cytology.

Assumed Knowledge: VETS 1000 Veterinary Anatomy and Histology I and VETS 1010 Veterinary Cytology.

When Offered: February & July

Classes: 29 lectures and 32 practical classes February Semester; 54 lectures and 24 practical classes July Semester.

Assessment: Theory and practical examinations February and July Semesters.

This Unit of Study covers the anatomy of the horse, ox, sheep, pig, cat and domestic fowl and comparative anatomy of some non-domesticated vertebrates; integrated microscopical anatomy of selected organs of those species.

The Unit of Study consists of lectures and practical classes totalling 241 hours.

Practical Work:

69 hours practical work February Semester; 63 hours practical work July Semester.

Textbooks:

Dellman, H, Textbook of Veterinary Histology, 4th edn, Lea and Febiger, 1993.

Dyce, K.M., et al., Textbook of Veterinary Anatomy, Saunders, 1987.

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

VETS 2001 Animal Genetics

3 credit points

Teacher/Coordinator: Assoc Prof Frank Nicholas and Assoc Prof Chris Moran

When Offered: February and July

Classes: 45 hours of lectures/tutorials both semesters

Assessment: 50 minute examination mid year (33%); two hour examination July semester (67%)

A unit of study of 45 hours 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 2002 Biochemistry

7 credit points

Teacher/Coordinator: Assoc Prof Michael Slaytor

When Offered: February & July

Classes: 48 lectures February Semester; 30 lectures and four 6 hour practical laboratory classes July Semester.

Assessment: Two and a half hour examination February Semester and 2 hour examination July Semester. July Semester examination has a section on laboratory work which is 15% of the Semester's assessment.

The Unit of Study consists of 78 lectures. The 48 lectures in February Semester are core lectures covering proteins and enzymes in sufficient detail for the understanding of intermediary metabolism related to food and energy production. There is a small component of prokaryotic molecular genetics designed as background information for Genetics. July Semester lectures (30) are on more specialised topics with the main emphasis on tissue biochemistry and eukaryotic molecular genetics.

The laboratory course of 4 classes in July Semester is designed to give students some manipulative skill in quantitative biochemistry and illustrates some of the techniques used in clinical pathology.

Practical Work:

Four 6 hour practical laboratory classes July Semester.

Textbooks:

Elliott, W.H. and Elliott, D.C., Biochemistry and Molecular Biology, Oxford University Press, 1997.

VETS 2018 Veterinary Embryology

3 credit points

Teacher/Coordinator: Dr Rhondda Canfield

Prerequisite: VETS 1000 Veterinary Anatomy and Histology I.

Assumed Knowledge: Gross and histological structure of the dog.

When Offered: February

Classes: 30 lectures and 18 hours of practical classes

Assessment: Assessment is by project presentation and theory and practical examinations February Semester.

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

Practical Work:

Practical classes reinforce lecture material and consist of tissue examination and identification at the gross and microscopic level, demonstrations, videos, examination of models and case studies of congenital abnormalities.

Textbooks:

Latshaw, W.K., Veterinary Developmental Anatomy: A Clinically Oriented Approach, B.C. Decker Inc., 1987.

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

VETS 2025 Veterinary Pathology I

4 credit points

Teacher/Coordinator: Dr Malcolm France

Prerequisite: Veterinary Science Year 1.

Assumed Knowledge: Veterinary Science Year 1.

When Offered: July

Classes: 42 lectures and 8 practical classes

Assessment: 2 hour written examination July Semester.

Veterinary Pathology I 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 Work:

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. and Travers, P., Immunobiology. The Immune System in Health and Disease, Blackwell, 1994.

VETS 2006 Veterinary Physiology

11 credit points

Teacher/Coordinator: Dr Paul McGreevy, Dr David Evans, Assoc Prof Gareth Evans, Assoc Prof Grant Stone, Dr Rosanne Taylor and Dr Melanie Collier

When Offered: February & July

Classes: 33 lectures and 10 practical classes in both semesters.

Assessment: One 3 hour examination in both February and July Semesters.

2 to 3 lectures and 1 or 2 practicals/tutorials per week February and July Semesters. 1 project July Semester.

About 68 hours of lectures and 86 hours of other classes which include laboratory experiments, videos, tutorials, problem-solving sessions, and computer-based tutorials and self-assessments. Students also undertake independent project work and present research results at seminars. Topics in the Unit of Study include: homeostasis; neural and endocrine control mechanisms; body fluids, physiology of nerve and muscle; autonomic nervous system; cardiovascular and respiratory systems, renal system and acid-base balance; endocrinology; digestion; reflexes and male and female reproduction.

Practical Work:

3 hours per week

Textbooks:

Swenson, M.J. and Reece, W.O., Dukes' Physiology of Domestic Animals, Cornell University Press, 1993.

VETS 3021 Animal Nutrition

3 credit points

Teacher/Coordinator: Prof David Fraser

Assumed Knowledge: Veterinary Science Years 1 and 2.

When Offered: July

Classes: 36 lectures

Assessment: Examination July Semester

A Unit of Study of 36 lectures concerned with the principles and practice of nutrition.

Textbooks:

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

VETS 3012 Veterinary Bacteriology and Mycology A

3 credit points

Teacher/Coordinator: Assoc Prof Daria Love

Prerequisite: Veterinary Science Years 1 and 2.

Assumed Knowledge: VETS 2025 Veterinary Pathology I, Genetics and Immunology.

When Offered: February

Classes: 30 lectures and practical classes

Assessment: Practical class exercise assessment. 2 hour theory paper and one and a half hour practical paper February Semester.

A Unit of Study of 63 hours of lectures and 45 hours of practical work. Lectures outline the general biological properties of groups of bacteria and fungi involved in diseases of veterinary importance. A study of the principles of disease pathogenesis as illustrated by groups of major veterinary pathogens is then presented. The main aim is to present a basic approach to understanding the relationship between micro-organisms and host species and how and why disease results. Presentation of basic epidemiology, pathology and immunology is given along with micro-organisms to enable students to study infectious disease in an integrated way.

Practical work includes the isolation, cultivation and identification of examples of major pathogenic micro-organisms and examination of the tissues of animals affected by microbial diseases. Classes are presented as clinical problems and worked up in a manner similar to a practice reference laboratory. Group tutorials discuss outcomes and approaches to problem solving.

Tutorials and practical classes also demonstrate and apply principles of sample collection, handling and laboratory processing enabling students to understand the requirements necessary to aid diagnosis of infectious disease. Some practical procedures for antimicrobial testing of isolates are also given.

Please see VETS 3022 Veterinary Bacteriology and Mycology B V322 for details of the course in July Semester.

Practical Work:

45 hours of classes over February and July Semesters.

VETS 3022 Veterinary Bacteriology and Mycology B

4 credit points

Teacher/Coordinator: Assoc Prof Daria Love

Prerequisite: Veterinary Science Years 1 and 2. Advised VETS 3012 Veterinary Bacteriology and Mycology A.

Assumed Knowledge: VETS 3012 Veterinary Bacteriology and Mycology A, VETS 2025 Veterinary Pathology I, Genetics and Immunology.

When Offered: July

Classes: 33 lectures and practical classes

Assessment: Practical class exercise assessment. 2 hour theory paper and one and a half hour practical paper July Semester.

See VETS 3012 Veterinary Bacteriology and Mycology A for course description.

Practical Work:

See VETS 3012 Veterinary Bacteriology and Mycology A.

VETS 3023 Veterinary Medicine

3 credit points

Teacher/Coordinator: Assoc Prof David Watson

Prerequisite: Veterinary Science Years 1 to 3.

Assumed Knowledge: An understanding of VETS 1000 Veterinary Anatomy and Histology I, VETS 2007 Veterinary Anatomy and Histology II, VETS 2001 Animal Genetics, VETS 2018 Veterinary Embryology, VETS 2002 Biochemistry, VETS2025 Veterinary Pathology I, VETS 3015 Veterinary Pathology II, VETS 2006 Veterinary Physiology, VETS 3017 Veterinary Physiology, VETS 3002 Veterinary Bacteriology and Mycology, VETS 3014 Veterinary Parasitology, VETS 3006 Veterinary Pharmacology and Toxicology and VETS 3021 Animal Nutrition.

When Offered: July

Classes: 36 Lectures

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 Veterinary Teaching Hospital.

Textbooks:

Nelson, R.W. and Couto, C.G., eds, Essentials of Small Animal Internal Medicine, Mosby, 1992.

VETS 3014 Veterinary Parasitology

4 credit points

Teacher/Coordinator: Dr Henry Collins

When Offered: February

Classes: 26 lectures and 13 practical classes

Assessment: Based on compulsory exercises, a group project and final written and practical examinations February Semester.

A study of the major parasitic diseases of the companion animals: dogs, cats, horses, cage birds and aquarium fish. The Unit of Study of 52 hours 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 Work:

Group project

Textbooks:

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

VETS 3015 Veterinary Pathology II

7 credit points

Teacher/Coordinator: Dr Malcolm France

Prerequisite: Veterinary Science Year 2.

Assumed Knowledge: VETS 2025 Veterinary Pathology I and Veterinary Science Year 2.

When Offered: February

Classes: 60 lectures and 16 practical classes

Assessment: 3 hour written examination and 1 hour practical examination February Semester.

Veterinary Pathology II 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 Work:

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. and Travers, P., Immunobiology. The Immune System in Health and Disease, Blackwell, 1994.

VETS 3016 Veterinary Pharmacology and Toxicology A

2 credit points

Teacher/Coordinator: Dr Jill Maddison

When Offered: February

Classes: 28 lectures

Assessment: One 90 minute examination in February Semester, class performance and assignments.

A Unit of Study including lectures, problem-based tutorials and correlation sessions. The latter will be run in conjunction with members of other departments within the Faculty to illustrate the interaction of preclinical and clinical disciplines in solving clinical problems. The Unit of Study covers basic pharmacological principles and clinical veterinary pharmacology. The interactive workshops address topics of particular relevance to veterinary pharmacology.

Please see VETS 3026 Veterinary Pharmacology and Toxicology B V326 for details of the course in July Semester.

Textbooks:

Katzung, B.G., ed., Basic and Clinical Pharmacology, 4th edn, Appleton and Lange, 1989.

Seawright, A.A., Animal Health in Australia, Vol. 2., Chemical and Plant Poisons, Australian Government Publishing Service, 1982.

Maddison, J.E., Therapeutic Update, Postgraduate Foundation of Veterinary Science (pub.) 1996, 2nd edn.

VETS 3026 Veterinary Pharmacology & Toxicology B

4 credit points

Teacher/Coordinator: Dr Jill Maddison

Prerequisite: Advised VETS 3016 Veterinary Pharmacology & Toxicology A.

Assumed Knowledge: VETS 3016 Veterinary Pharmacology & Toxicology A.

When Offered: July

Classes: 28 lectures, 6 hours of problem-based tutorials and 3 correlation sessions (3 hours each session)

Assessment: One 90 minute examination in July Semester, class performance and assignments.

See VETS 3016 Veterinary Pharmacology & Toxicology A for course description.

Textbooks:

See VETS 3016 Veterinary Pharmacology & Toxicology A.

VETS 3017 Veterinary Physiology

11 credit points

Teacher/Coordinator: Dr David Evans, Dr Paul McGreevy, Assoc Prof Grant Stone, Dr Rosanne Taylor and Dr Melanie Collier

When Offered: February

Classes: 53 lectures and 93 hours of other classes

Assessment: One 3 hour examination, 2 essays and one group project February Semester.

3 to 4 lectures and 2 to 3 practicals/tutorials per week February Semester.

This Unit of Study consists of approximately 53 hours of lectures and 93 hours of other classes. These include tutorials, seminars, laboratory work, library research, computer based learning and self-assessment sessions. Topics include sensory systems, central nervous system, pain, ruminant digestion, reproduction, animal welfare, cardiovascular system, development, thermoregulation, exercise physiology and normal and abnormal animal behaviour.

Textbooks:

Cunningham, J.G., Textbook of Veterinary Physiology, W.B. Saunders, Phil., 1992.

VETS 3028 Veterinary Surgery

4 credit points

Teacher/Coordinator: Dr Geraldine B. Hunt

Prerequisite: Veterinary Science Years 1 and 2.

Assumed Knowledge: Veterinary Science Years 1 and 2.

When Offered: July

Classes: 26 lectures and 4 practical classes

Assessment: Ongoing assessment (50%) and written examination (50%) July Semester.

Study of veterinary surgery extends over three years and provides theoretical and practical instruction in the principles of surgery, obstetrics, anaesthesia and radiology in both large and small domestic animals.

Instruction in veterinary surgery commences in third year. Topics covered include: the principles of aseptic surgery; plastic, reconstructive and oncologic surgery; radiography, ultrasonography and radiation oncology; and anaesthesia, in preparation for entry to the Veterinary Teaching Hospital in fourth year. An equivalent time in third year is also devoted to practical instruction in these subjects.

Practical Work:

4 practical classes in aspects of surgery July Semester.

Textbooks:

Hall, L.W. and Clarke, K.W., Veterinary Anaesthesia, Bailliere Tindall, 1991.

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

Kodak, The Fundamentals of Radiography, Eastman Kodak Co., 1980.

VETS 3009 Veterinary Virology

3 credit points

Teacher/Coordinator: Dr Gary Grohmann

Assumed Knowledge: Basic Biochemistry

When Offered: February & July

Classes: 9 lectures and 10 hours practical classes February Semester; 9 lectures and 22 hours problem solving and consultancy July Semester.

Assessment: Problem solving assignments and a 1 hour practical examination February Semester. A consultancy assignment and a 2 hour written examination July Semester.

A Unit of Study of 18 lectures, 12 hours of practical work and 20 hours of problem solving consultancy briefs. Major topics include: structure and classification of animal viruses, epidemiology, control of viral diseases, zoonoses, vaccines, chemotherapy, host response, clinical expression and subclinical carriage of viral infections and diagnostic tests including molecular biology tests, cell culture, electron microscopy and immunodiagnosics.

Emphasis will be placed on viral diseases of cats, dogs, poultry, cattle, sheep and horses.

Practical Work:

Six 2 hour sessions covering cell culture, electron microscopy, virus identification, serology and molecular techniques February Semester.

Textbooks:

Sabine, M. and Spradbow, P., Virology for Australian Veterinarians, Veterinary Science Postgraduate Committee, University of Queensland, 1992.

VETS 4013 Veterinary Anatomy III

1 credit points

Teacher/Coordinator: Dr Paul Hopwood

Prerequisite: VETS 1000 Veterinary Anatomy and Histology I, VETS 2007 Veterinary Anatomy and Histology II.

When 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 Work:

Dissection classes

VETS 4008 Animal Husbandry Practical Report

Teacher/Coordinator: Assoc Prof Gareth Evans

Prerequisite: Enrolment in the Bachelor of Veterinary Science course.

Assessment: The work is documented in a practical report which is submitted for assessment in the first week of February Semester, 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 Work:

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 21 days, sheep 21 days, pigs 7 days and poultry 7 days. Students are encouraged to voluntarily gain experience with native fauna, zoo animals, marine animals or other exotic species but such periods of work cannot be substituted for work with the major domestic species.

VETS 4021 Animal Nutrition

2 credit points

Teacher/Coordinator: Prof David Fraser

Prerequisite: Veterinary Science Year 3

Assumed Knowledge: Veterinary Science Year 3

When Offered: July

Classes: 36 lectures

Assessment: Examination July Semester

A Unit of Study of 36 lectures 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 4022 Applied Reproduction and Obstetrics

2 credit points

Teacher/Coordinator: Assoc Prof Gareth Evans

Assumed Knowledge: VETS 2006 Veterinary Physiology, VETS 1000 Veterinary Anatomy and Histology I and VETS 2007 Veterinary Anatomy and Histology II.

When Offered: July

Classes: 36 lectures and 1 practical class

Assessment: One 3 hour written examination July Semester.

A Unit of Study of 36 lectures and 1 practical class 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 provided at the Veterinary Teaching Hospital in Sydney, at the Rural Veterinary Centre at Camden, and in further formal demonstrations in Fifth Year Units of Study.

Practical Work:

One 3 hour practical class on applied reproduction in the dog (optional).

VETS 4004 Veterinary Clinical Pathology

3 credit points

Teacher/Coordinator: Assoc Prof Paul Canfield

Prerequisite: Veterinary Science Years 1 to 3.

Assumed Knowledge: Veterinary Science Years 1 to 3.

When Offered: February & July

Classes: 22 lectures and 5 practical classes February Semester; 8 lectures and 4 practical classes July Semester.

Assessment: Continuous practical assessment both February and July Semesters. 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 Work:

Case reports and simple laboratory procedures.

VETS 4005 Veterinary Medicine

15 credit points

Teacher/Coordinator: Assoc Prof David Watson

Assumed Knowledge: Veterinary Science Years 1 to 3.

When Offered: February & July

Classes: 36 hours of lectures February Semester and 144 hours of structured clinical training in the Veterinary Teaching Hospital both semesters.

Assessment: One hour multiple choice question examination February Semester. One and a half hour structured objective clinical examination July Semester. Three hour written examination July Semester.

The Unit of Study commenced in third year continues through the two semesters of fourth year. Lectures (36) 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.

Practical work in the Veterinary Teaching Hospital is undertaken using clinical case material and case illustrated tutorials are given during February and July Semesters.

Textbooks:

Nelson, R.W. and Couto, C.G., eds, Essentials of Small Animal Internal Medicine, Mosby, 1992.

VETS 4026 Veterinary Parasitology

3 credit points

Teacher/Coordinator: Dr Henry Collins

When Offered: July

Classes: 28 lectures and 13 practical classes

Assessment: Based on compulsory exercises, a group project and final written and practical examinations July Semester.

A study of the economically important parasitic diseases of commercial animals: cattle, sheep, goats, pigs, poultry, bees and farmed fish. The Unit of Study of 54 hours 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 Work:

Group project

Textbooks:

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

VETS 4007 Veterinary Surgery

22 credit points

Teacher/Coordinator: Dr Geraldine B. Hunt

Prerequisite: Veterinary Science Years 1 to 3.

Assumed Knowledge: Veterinary Science Years 1 to 3.

When Offered: February & July

Classes: 78 lectures and 5 practical classes February Semester; 17 lectures and 5 practical classes July Semester.

Assessment: Ongoing assessment (25%) February and July Semesters, examination (75%) July Semester.

The Unit of Study of 95 lectures includes the surgical diseases and affections of domestic animals. These are arranged with emphasis on a systematic approach giving consideration to the alimentary, musculoskeletal, respiratory, urogenital, cardio-vascular, nervous, special senses, cutaneous and endocrine systems of the body.

Training is given by lectures and demonstrations in the principles of antisepsis and aseptic surgery, in the pathophysiology of surgical diseases, in the technique of operative surgery and in anaesthesia, radiography and radiology. Surgical techniques are practised under supervision in 60 hours of formal practical classes. Students assist in the surgery and after-care of animals in the veterinary hospital on a roster system as part of their clinical work.

Instruction in veterinary anaesthesia covers the theory and practice of general anaesthesia and of local and regional analgesia. The student studies the pre-operative assessment of the anaesthetic patient in addition to the recognition and management of post-operative anaesthetic complications. Fluid therapy and intensive care of both surgical and medical cases are undertaken.

Instruction in the use of radiology as an aid to clinical diagnosis in diseases of the different body systems is given. Examination of clinical cases, practical classes and tutorials will provide an introduction to radiological diagnosis and cover further aspects of radiography, radiation protection, ultrasonography and radiation oncology.

Practical Work:

30 hours formal practical classes in each of February and July Semesters.

Textbooks:

Allan, G.S., Radiology Symposium Proceedings No. 203, Postgraduate Committee in Veterinary Science, University of Sydney, 1992.

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.

Hall, L.W. and Clarke, K.W., Veterinary Anaesthesia, BaffliereTindall, 1991.

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.

Thrall, D.E., Textbook of Veterinary Diagnostic Radiology, Saunders, 1993.

VETS 5002 Bird Health and Production

5 credit points

Teacher/Coordinator: Assoc Prof Garry Cross

Prerequisite: Veterinary Science Years 1 to 4.

Assumed Knowledge: Veterinary Science Years 1 to 4.

When Offered: February & July

Classes: 7 lectures February Semester and 31 lectures July Semester; 40 hours practical classes July Semester.

Assessment: Written and practical examinations July Semester.

This Unit of Study consists of 38 lectures and 40 hours of practical classes. 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. 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 Work:

Conducted within department

Textbooks:

Produced in department (lecture notes)

VETS 5007 Cattle Health and Production

6 credit points

Teacher/Coordinator: Dr Tony English

Prerequisite: Veterinary Science Years 1 to 4.

Assumed Knowledge: Veterinary Science Years 1 to 4.

When Offered: February & July

Classes: 63 lectures and 58 hours of practical classes

Assessment: One 3 hour written examination February Semester.

The Unit of Study in cattle health and production is an integration of material presented by the Departments of Animal Science and Animal Health. 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. There are 63 lectures and 58 hours of practical classes, with additional exposure to case material and herd health programs during clinical rotations at the Rural Veterinary Centre.

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 lectures 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.

Practical Work:

One 2 week rotation (Monday to Friday, 9 am to 1 pm) February Semester. Rural Veterinary Centre rotations as rostered (2 weeks) February and July Semesters.

Textbooks:

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

VETS 5000 Clinical Practice

7 credit points

Teacher/Coordinator: Assoc Prof David Hodgson

Prerequisite: Veterinary Science Years 1 to 4.

Assumed Knowledge: Veterinary Science Years 1 to 4.

When Offered: February & July

Classes: 192 hours of practical work at the RVC

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

Clinical Practice integrates knowledge from lectures in Units of Study in managing cases and dealing with clients under academic supervision at the Rural Veterinary Centre (RVC). Continuing assessment will account for 80% of the allocated mark and each student will be assessed after each rotation of work at the RVC. This assessment will be based on clinical knowledge, management of case records, attitude towards, and interest, in the work of the RVC and professionalism (client and colleague relationships). At the time of the July examinations each student will be examined viva voce and this will account for 20% of the mark.

Practical Work:

192 hours

VETS 5017 Essay

1 credit points

Teacher/Coordinator: Associate Dean, Camden Campus

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 5003 Horse Medicine

6 credit points

Teacher/Coordinator: Assoc Prof David Hodgson

Prerequisite: Veterinary Science Years 1 to 4.

Assumed Knowledge: Veterinary Science Years 1 to 4.

When Offered: February & July

Classes: 30 lectures and 44 hours of practical classes February Semester; 18 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. There are 26 lectures covering medical problems in all the major body systems including equine reproduction. Lectures are presented using an approach which highlights major problems in equine medicine. Practical classes in equine reproduction, ophthalmology and neurology are held at the Faculty Horse Unit in Cobbitty and the Rural Veterinary Centre. The Rural Veterinary Centre and its laboratory provide experience in the management of a wide range of disease problems in companion animals (including horses), cattle, goats and deer. Students also participate in herd health services provided to local dairy producers.

Practical Work:

44 hours horse medicine practical classes February Semester and 18 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, 4th edn, American Veterinary Publications, 1991.

Equine Internal Medicine, Proceedings No. 206, Postgraduate Committee in Veterinary Science, University of Sydney, 1993.

Equine Medicine, Proceedings No. 183, Postgraduate Committee in Veterinary Science, University of Sydney, 1992.

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, W.B. Saunders, 1993.

Scott, D.W., Large Animal Dermatology, W.B. Saunders, 1988.

Smith, B.P., Large Animal Internal Medicine, Vol. 2, Mosby, 1996.

White II, N.A., The Equine Acute Abdomen, Lea and Febiger, 1990.

VETS 5026 Pig Health and Production

5 credit points

Teacher/Coordinator: Assoc Prof Robert Love

Prerequisite: Veterinary Science Years 1 to 4.

Assumed Knowledge: Veterinary Science Years 1 to 4.

When Offered: July

Classes: 33 lectures and 8 practical classes

Assessment: 2 hour examination July Semester.

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 deal with the common problems of pig medicine and production rather than attempt to cover the full range of possible problems. Practical classes are aimed at providing the necessary understanding and skills for pig practice.

The emphasis of the Unit of Study is 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 5004 Veterinary Public Health

3 credit points

Teacher/Coordinator: Assoc Prof Garry Cross

Prerequisite: Veterinary Science Years 1 to 4.

Assumed Knowledge: Veterinary Science Years 1 to 4.

When Offered: February & July

Classes: 15 lectures February Semester and 33 lectures July Semester. 27 hours self instruction in food quality and hygiene July Semester.

Assessment: Written examination July Semester. 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.

There are 48 hours of lectures and 27 hours of self instruction programmed for Veterinary Public Health.

Practical Work:

Abattoir experience

Textbooks:

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

Mephan, T.B., Physiology of Lactation, Open University Press, Milton Keynes and Philadelphia, 1987.

Veterinary Surgeons Act, 1987

VETS 5019 Sheep Health and Production

7 credit points

Teacher/Coordinator: Dr Kym Abbott

Prerequisite: Veterinary Science Years 1 to 4.

Assumed Knowledge: Veterinary Science Years 1 to 4.

When Offered: February

Classes: 40 lectures and 56 hours of practical classes

Assessment: One 3 hour examination plus continuous assessments in practical classes February Semester.

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 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 trie 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 5008 Special Medicine

2 credit points

Teacher/Coordinator: Dr Robert Dixon

Prerequisite: Veterinary Science Years 1 to 4.

Assumed Knowledge: Veterinary Science Years 1 to 4.

When Offered: February & July

Classes: Estimate - 9 lectures February Semester and 16 lectures July Semester.

Assessment: The assessment will be 30% assignment mark and, at the end of the Unit of Study (February or July Semester), 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 5005 Veterinary Surgery

6 credit points

Teacher/Coordinator: Prof Reuben Rose

Prerequisite: Veterinary Science Years 1 to 4.

Assumed Knowledge: Veterinary Science Years 1 to 4.

When Offered: February & July

Classes: Estimated -10 lectures and 40 hours practical classes both semesters.

Assessment: Practical examination relating to equine clinical examination and diagnosis will be held end of February Semester. Additionally a written examination will be held end of July Semester.

In fifth year the surgery Unit of Study consists of 20 hours of lectures or seminars on special features of surgery, radiology and anaesthesia and 80 hours of practical instruction. The practice of surgical and obstetrical techniques under supervision, and preparation of small and large animals for surgery and their after-care in the Rural Veterinary Centre, 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 Veterinary Teaching Hospital at the University of Sydney, combined with three weeks in the Rural Veterinary Centre, Camden, and periods spent with veterinary practitioners engaged in general practice, provide opportunities to reach the standard required at graduation.

Practical Work:

Basically the Unit of Study will be supplemented by practical work undertaken in the Rural Veterinary Centre and private practice.

Textbooks:

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

5. Table of Units of Study

Alpha & Num. codes	Unit of Study Name	Credit Point Value	Assumed Knowledge (AK) Prerequisites (P) Corequisites (C)	Additional Information / May not be counted with	When Offered (Semester)
VETS 1000	Veterinary Anatomy and Histology I	13			February & July
VETS 1001	Animal Husbandry	8			February & July
VETS 1024	Introductory Biology	3			July
VETS 1012	Biometry	3			February
CHEM 1403	Chemistry	8	AK: Chemistry 2 Unit or the Chemistry component of 3/4 Unit Science HSC courses.		February & July
VETS 1010	Veterinary Cytology	3			February
VETS 1016	Pastoral Botany and Agronomy	3			February
VETS 1007	Physics	7	AK: Physics 2 Unit or the Physics section of 4 Unit Science HSC courses.		February & July
VETS 1015	Introductory Veterinary Science				February
VETS 2007	Veterinary Anatomy and Histology II	20	AK: VETS 1000 Veterinary Anatomy and Histology I and VETS 1010 Veterinary Cytology. P: VETS 1000 Veterinary Anatomy and Histology I and VETS 1010 Veterinary Cytology.		February & July
VETS 2001	Animal Genetics	3			February and July
VETS 2002	Biochemistry	7			February & July
VETS 2018	Veterinary Embryology	3	AK: Gross and histological structure of the dog. P: VETS 1000 Veterinary Anatomy and Histology I.		February
VETS 2025	Veterinary Pathology I	4	AK: Veterinary Science Year 1. P: Veterinary Science Year 1.		July
VETS 2006	Veterinary Physiology	11			February & July
VETS 3021	Animal Nutrition	3	AK: Veterinary Science Years 1 and 2.		July
VETS 3012	Veterinary Bacteriology and Mycology A	3	AK: VETS 2025 Veterinary Pathology I, Genetics and Immunology. P: Veterinary Science Years 1 and 2.		February

Alpha & Num. codes	Unit of Study Name	Credit Point Value	Assumed Knowledge (AK) Prerequisites (P) Corequisites (C)	Additional Information / May not be counted with	When Offered (Semester)
VETS 3022	Veterinary Bacteriology and Mycology B	4	AK: VETS 3012 Veterinary Bacteriology and Mycology A, VETS 2025 Veterinary Pathology I, Genetics and Immunology. P: Veterinary Science Years 1 and 2. Advised VETS 3012 Veterinary Bacteriology and Mycology A.		July
VETS 3023	Veterinary Medicine	3	AK: An understanding of VETS 1000 Veterinary Anatomy and Histology I, VETS 2007 Veterinary Anatomy and Histology II, VETS 2001 Animal Genetics, VETS 2018 Veterinary Embryology, VETS 2002 Biochemistry, VETS 2025 Veterinary Pathology I, VETS P: Veterinary Science Years 1 to 3.		July
VETS 3014	Veterinary Parasitology	4			February
VETS 3015	Veterinary Pathology II	7	AK: VETS 2025 Veterinary Pathology I and Veterinary Science Year 2. P: Veterinary Science Year 2.		February
VETS 3016	Veterinary Pharmacology and Toxicology A	2			February
VETS 3026	Veterinary Pharmacology & Toxicology B	4	AK: VETS 3016 Veterinary Pharmacology & Toxicology A. P: Advised VETS 3016 Veterinary Pharmacology & Toxicology A.		July
VETS 3017	Veterinary Physiology	11			February
VETS 3028	Veterinary Surgery	4	AK: Veterinary Science Years 1 and 2. P: Veterinary Science Years 1 and 2.		July
VETS 3009	Veterinary Virology	3	AK: Basic Biochemistry		February & July
VETS 4013	Veterinary Anatomy III	1	P: VETS 1000 Veterinary Anatomy and Histology I, VETS 2007 Veterinary Anatomy and Histology II.		February
VETS 4008	Animal Husbandry Practical Report		P: Enrolment in the Bachelor of Veterinary Science course.		
VETS 4021	Animal Nutrition	2	AK: Veterinary Science Year 3 P: Veterinary Science Year 3		July

Alpha & Num. codes	Unit of Study Name	Credit Point Value	Assumed Knowledge (AK) Prerequisites (P) Corequisites (C)	Additional Information / May not be counted with	When Offered (Semester)
VETS 4022	Applied Reproduction and Obstetrics	2	AK: VETS 2006 Veterinary Physiology , VETS 1000 Veterinary Anatomy and Histology I and VETS 2007 Veterinary Anatomy and Histology II.		July
VETS 4004	Veterinary Clinical Pathology	3	AK: Veterinary Science Years 1 to 3. P: Veterinary Science Years 1 to 3.		February & July
VETS 4005	Veterinary Medicine	15	AK: Veterinary Science Years 1 to 3.		February & July
VETS 4026	Veterinary Parasitology	3			July
VETS 4007	Veterinary Surgery	22	AK: Veterinary Science Years 1 to 3. P: Veterinary Science Years 1 to 3.		February & July
VETS 5002	Bird Health and Production	5	AK: Veterinary Science Years 1 to 4. P: Veterinary Science Years 1 to 4.		February & July
VETS 5007	Cattle Health and Production	6	AK: Veterinary Science Years 1 to 4. P: Veterinary Science Years 1 to 4.		February & July
VETS 5000	Clinical Practice	7	AK: Veterinary Science Years 1 to 4. P: Veterinary Science Years 1 to 4.		February & July
VETS 5017	Essay	1			
VETS 5003	Horse Medicine	6	AK: Veterinary Science Years 1 to 4. P: Veterinary Science Years 1 to 4.		February & July
VETS 5026	Pig Health and Production	5	AK: Veterinary Science Years 1 to 4. P: Veterinary Science Years 1 to 4.		July
VETS 5004	Veterinary Public Health	3	AK: Veterinary Science Years 1 to 4. P: Veterinary Science Years 1 to 4.		February & July
VETS 5019	Sheep Health and Production	7	AK: Veterinary Science Years 1 to 4. P: Veterinary Science Years 1 to 4.		February
VETS 5008	Special Medicine	2	AK: Veterinary Science Years 1 to 4. P: Veterinary Science Years 1 to 4.		February & July
VETS 5005	Veterinary Surgery	6	AK: Veterinary Science Years 1 to 4. P: Veterinary Science Years 1 to 4.		February & July

6. Regulations

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 course of Bachelor of Veterinary Science shall complete the following units of study:

(i) In the first year—

Introductory Veterinary Science
Introductory Biology
Chemistry
Physics I
Veterinary Anatomy and Histology I
Veterinary Cytology
Biometry
Animal Husbandry
Pastoral Botany and Agronomy

(ii) In the second year—

Veterinary Anatomy and Histology II
Veterinary Embryology
Veterinary Physiology
Biochemistry
Animal Genetics
Veterinary Pathology I

(iii) In the third year—

Animal Nutrition
Veterinary Physiology
Veterinary Pathology II
Veterinary Bacteriology and Mycology A and B
Veterinary Virology
Veterinary Pharmacology and Toxicology A and B
Veterinary Medicine
Veterinary Surgery
Veterinary Parasitology

(iv) In the fourth year—

Veterinary Medicine
Veterinary Surgery
Veterinary Parasitology
Veterinary Anatomy III
Veterinary Clinical Pathology
Applied Reproduction and Obstetrics
Animal Nutrition
Animal Husbandry Practical Report

(v) In the fifth year—

Bird Health and Production
Horse Medicine
Pig Health and Production
Cattle Health and Production
Special Medicine
Sheep Health and Production
Veterinary Surgery
Veterinary Public Health
Essay
Clinical Practice

2. A unit 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' 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.
3. Class examinations may be held during each unit of instruction 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 annual examination may be held for each of the prescribed units of study for the course.
- (2) At each annual 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. No candidate for the degree may enrol in any of the units prescribed for the second or subsequent years of candidature unless that candidate has completed at the one examination all the requirements of the previous year.
6. A candidate who has been enrolled in the course for the degree of Bachelor of Veterinary Science but has not re-enrolled for a period of one year or more shall complete the requirements for the degree under such conditions as the Faculty may determine.
7. A candidate for the degree may enrol in the units 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,
8. 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.
9. 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.
10. 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.
11. (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 the course 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 WAM is calculated by summing the products of the marks achieved and the weighted values of the units of study taken and then dividing by the sum of the weighted unit values. The formula used is:

$$\text{WAM} = \frac{\sum W_v M}{\sum W_v}$$

where 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. Weights are determined on the basis of timetabled hours. 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 BVSc 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. Successful candidates will be awarded the degree with either First Class, Second Class, or Third Class Honours. 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.

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).
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. (1) The degree shall be awarded only with Honours.
(2) There shall be three classes of Honours, namely Class I, Class II and Class m.
7. 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 degree 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 concerned with 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. Candidates working outside the Faculty, in departments with guidelines and requirements for Science Honours or BSc(Med) students, should follow, where possible, such departmental requirements except where these conflict with the regulations for the BSc(Vet) degree.
4. The minimum acceptable qualifications for the supervisor of a candidate for the degree is an appropriate higher degree.
5. In response to an application for candidature, the Associate Dean concerned with 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.
6. Recommendations for approval of each candidature will be made by the Associate Dean concerned with the degree course 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.
7. 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 grades awarded in examinations; and
 - (d) report, to the Board of Examiners, the grades awarded to all candidates.
8. 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 independent assessments 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.
9. 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.
10. Honours shall be awarded according to the following scale:

Grade (%)	Honours
75+	Class I
65-74	Class II
50-64	Class III
11. If a grade is less than 50%, the degree will not be awarded.
12. 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.

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
2. A candidate for a degree of Bachelor who at any time during the first year of attendance discontinues enrolment in all units of study shall not be entitled to re-enrol in that degree course 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.
3. Subject to paragraphs (i) and (ii) of section 1, no candidate for a degree of Bachelor may discontinue enrolment in a unit of study or year after the end of lectures in that unit or year.
4. 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 February Semester Units of Study

5. A candidate for a degree of Bachelor who discontinues enrolment in a full-year or February Semester unit on or before 30 March in that year shall be recorded as having withdrawn from that unit.

Withdrawal from July Semester Units of Study

6. A candidate for a degree of Bachelor who discontinues enrolment in a July Semester unit on or before 30 August in that year shall be recorded as having withdrawn from that unit.

All Faculties, Colleges and Boards of Studies except the Faculty of Engineering

Discontinuation

7. (1) A discontinuation of enrolment in a unit of study shall be recorded as 'Discontinued with Permission' when the discontinuation occurs after the relevant withdrawal period and
 - (a) on or before the Friday of the first week of July Semester for a full-year unit, or
 - (b) up to the last day of the seventh week of teaching in a one-semester unit.

- (2) A discontinuation of enrolment in a course shall be recorded as 'Discontinued' when the discontinuation occurs
- (a) after the Friday of the first week of July Semester for a full-year unit, or
- (b) after the last day of the seventh week of teaching in a one-semester unit.
- (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

1. 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.
2. A candidate who at any time discontinues enrolment from a course (degree or diploma) shall not be entitled to re-enrol in that course unless the candidate is readmitted to candidature for that course.
3. 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.
4. 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 February Semester courses

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

Withdrawal from July Semester units of study

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

Discontinuation

7. 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

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

Discontinuation

9. A candidate who discontinues enrolment in a course 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.

Extract from Resolutions of the Senate relating to Restriction upon Re-enrolment

20. (1) The Senate authorises the Faculty of Veterinary Science to require a student to show good cause why he or she should be allowed to repeat Second Year in the Faculty of Veterinary Science if he or she has already taken more than one year to qualify for admission to Second Year.
- (2) The Senate authorises the Faculty of Veterinary Science to require a student to show good cause why the student should be allowed to repeat First Year in the Faculty of Veterinary Science if that student has failed all the subjects of the First Year in the Faculty of Veterinary Science or has obtained a weighted average mark of less than 40% in those subjects.

Assessment and examinations periods

There are three formal examination periods:

Period	when held	approximate duration
February semester	June	2-3 weeks
July semester	November	3-4 weeks
Supplementary	January/February	2 weeks

In addition, individual faculties and departments may examine at other times and by various methods of assessment, such as essays, assignments, viva voce, practical work, etc. Some departments do not examine during February semester.

Supplementary examinations

Supplementary examinations, which are held in January/February, may be granted by a faculty, college or board of studies:

- (a) to candidates who have been prevented by duly certified illness or misadventure from completing an examination, or
- (b) to candidates who have failed in any examination, but whose work is deemed sufficient to warrant the concession of a further test.

Supplementary examinations should be regarded as distinct privileges, not as rights.

Timetables

Draft timetables are displayed at the Carslaw building, outside the Student Centre, approximately 3-4 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. Examination marks (as opposed to examination grades) are treated as personal information and therefore disclosed only to the student concerned. However, information will be made available to help you gauge your comparative performance in class.

Examination grades

Each unit taken will be allotted one of the following grades at the annual examinations:

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

Award of examination grades

It is important to note that the University does not use a set formula for determining the number of specific examination grades to be awarded in particular units of study. However there is a policy of the Academic Board on trying to achieve equity between faculties on the number of merit grades to be awarded in units of study. This policy is printed below.

'The following proportions of merit grades to be awarded in each unit of study are provided to examiners as indicative only. They are certainly not to be considered as quotas. The proportions have been refined over the years to provide a basis for equity of examination results between faculties, particularly the 'generalise faculties of Arts, Economics and Science. Equity of examination results is important in its own right, but is crucial when Honours students are being considered for the award of Commonwealth Postgraduate Scholarships. Please note that the proportions are cumulative and are based on the number of students who gain a Pass or better in the particular unit.

	%	%	%
	High	Distinction	Credit
Distinction	+	+	
First year units	3	14	42
Second year units	3	16	46
Third year units	4	18	50

The proportions of merit grades may vary from unit to unit and from year to year, reflecting different capabilities of different groups. Any variations will be compared with previous years and the proportions will continue to be refined in the light of experience.'

Illness or misadventure

(Please contact the Faculty Office for full details of application procedure.)

You may apply (in writing) for special consideration of your examination performance on grounds of illness or misadventure. In the case of illness a medical certificate should be provided. The minimum requirements of a medical certificate are that it:

- be submitted and signed by your own medical practitioner and indicate the dates on which you sought attention;
- certify unambiguously a specified illness or medical disability for a definite period;
- indicate the degree of your incapacity, and express a professional opinion as to the effect of your illness on your ability to take an examination.

Certificates in connection with annual or supplementary examinations should be submitted prior to the examinations, unless the illness or misadventure takes place during the examinations, in which case the evidence must be forwarded as soon as practicable, and in any case before the close of the examination period. There is a special form available at the Student Centre and at the University Health Service for submission with medical certificates.

For consideration on the grounds of misadventure, your application must include a full statement of circumstances and any available supporting evidence.

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.

7. Postgraduate Information

Postgraduate study

Higher degrees and postgraduate diploma
Higher degrees

The higher degrees in the Faculty of Veterinary Science are:

- 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.

Master of Science in Veterinary Science

Persons holding the degree of Bachelor of Veterinary Science 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 Anaesthesia, 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.

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.

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.

A candidate for the degree in the subject area of Veterinary Anaesthesia 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 anaesthesia and intensive care;
 - Pharmacology of drugs used for and in association with anaesthesia and intensive care.

Part 2

- Written, clinical and practical examinations:
 - The theory and practice of general anaesthesia;
 - 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 anaesthesia and surgery;

- Fluid therapy and management of cases requiring intensive care.

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.

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.

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, 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 an examination at an equivalent standard. 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 diploma

The Faculty awards the following postgraduate diploma

DipVetClinStud-Diploma in Veterinary Clinical Studies.

The regulations covering the award are printed in the University's Calendar, Vol. I: Statutes and Regulations.

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.

Scholarships: postgraduate

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

Scholarship	Value	Closing date	Qualifications
1. Restricted to Veterinary Science postgraduates			
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	equivalent to	15 November APA	Male graduates of any university for research in veterinary science
Sara and Anne Payten Canine Cancer Research Fund	As recommended by Head of Dept of VetClin.Sciences	As advertised	Postgraduate study and research
Jean Walker Trust Fellowships	equivalent to	15 November APA	Postgraduate study and research
Jean Walker Trust Supplementary Fellowships	maximum 5000	15 November	Postgraduate study and research
James Ramage Wright Research	maximum	15 November 5000	Postgraduate Scholarships study and research into the problems of animal production
2. Other awards open to Veterinary Science postgraduates			
(a) Tenable at the University of Sydney			
Australian Postgraduate Awards (APA)	15 364 per annum	October	Open to permanent residents of Australia for higher degree by research
(b) Travelling scholarships			
Harriett Beard Scholarship	9000	November	Postgraduate study and research in physical sciences— engineering.veterinary science and dentistry
Boulton Postgraduate Scholarship	9000	November	Postgraduate study or research forgraduates educated within the Australian public educational system
C.G. Heydon Travelling Fellowship	10 500	November	Postgraduate study or research in biological sciences at overseas institutions
William and Catherine McIlrath	25 000	November	Postgraduate study or Scholarship research overseas within four years after qualification for the first degree appropriate to the proposed course of study overseas
J.B. Watt Travelling Scholarship	9000	November	Postgraduate study or research overseas within four years after qualification for the first degree appropriate to the proposed course of study overseas
Eleanor Sophia Wood Travelling Fellowships	35 000	November	Postgraduate study or research overseas
Eleanor Sophia Wood Postgraduate Research Travelling Scholarship	9000	November	Postgraduate study or research overseas within four years after qualification for the first degree appropriate to the proposed course of study overseas
(c) Grants-in-aid			
Restricted to Veterinary Science postgraduates			
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	up to 3000	End February	Postgraduate candidature in the Department of Veterinary Clinical Sciences
Neil and Allie Lesue Scholarship	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
Other grants-in-aid open to Veterinary Science postgraduates			
Royston George Booker Scholarships	up to 1000	31 May	Postgraduate study or research overseas
Herbert Johnson Travel Grants	up to 1000	31 May	Postgraduate study or research overseas
J. Kentley Memorial Scholarship	up to 1000	31 May	Postgraduate study or research
James King of Irrawang Travelling Scholarship	up to 1000	31 May	Postgraduate study or research overseas
G.H.S. and I.R. Lightoller Scholarship	up to 1000	31 May	Postgraduate study or research overseas

8. Other Information

Faculty Specific Information

Administration

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,
- 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.

Booklists

Copies of textbook and reference book lists for each year are available from the office.

Noticeboards

The main Faculty noticeboards are in the ground-floor corridor of the J.D. Stewart Building. These noticeboards should be checked regularly.

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

Welcome to first year students

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

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.

International students

International students are required to make application to the International Office. International students already studying at schools in Australia should apply to the Universities Admissions Centre.

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:

2nd Floor
'Sydney Central'
477 Pitt Street
Sydney 2000. Tel. (02) 9379 8888.

Private international students

Private subsidised international students should advise the Department of Employment, Education and Training (DEET) of their address and enrolment details by writing to the Overseas Student Section, PO Box 9880, Canberra, A.C.T. 2601.

Private subsidised international students continuing their studies should confirm their enrolment with the Overseas Student Section as early as possible each year in order to ensure that arrangements for the extension of their temporary entry permit can be made.

All subsidised students must advise the department if they change their semester residential address during the year. Telephone enquiries should be directed to 008 812 698 (toll-free).

Private fee-paying international students

Private fee-paying international students must advise the International Office of any changes of address. Any enquiries about fee payments, enrolments and any other problems can be made to the International Education Office on (02) 9351 4079 or 9351 4161.

Advisers to international students

The International Office has been established to help all international students with application and enrolment procedures and any other problems they may encounter.

The International Student Services Unit on the main campus and the Advisory Centre for Overseas Students (Cumberland College campus) can help with any problems arising during an international student's stay in Australia.

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 and physics practical classes. The lists indicating these class sections will be displayed outside the relevant laboratories before the beginning of the semester.

You must attend the classes only at the times indicated.

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.

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.

Academic dress

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

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

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

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

Foundations

Postgraduate Foundation in Veterinary Science

The purpose of the Foundation has been to fund postgraduate continuing veterinary education. The Foundation raises funds 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.

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

The establishment of the J.D. Stewart Veterinary Science Foundation was approved by Senate in March 1986.

The Foundation was established to, inter alia, promote veterinary research at the University of Sydney; however, its prime objective has been to raise funds for the construction of a new building to house the Department of Veterinary Pathology.

The Foundation has played a major role in securing \$3 million from the Commonwealth Government for the University to purchase the McMaster Laboratory from the CSIRO. Following refurbishment this is now occupied mainly by the Department of Veterinary Anatomy and Pathology.

Additional funding from a major bequest, the corporate sector, veterinary graduates and students and the Postgraduate Foundation, has resulted in the construction of a new 250 seat conference centre on the Faculty precinct.

The affairs of the Foundation are being conducted by a Council chaired by the Right Honourable J.D. Anthony, CH.

List of Staff by Departments

1. Staff

FACULTY

Dean

Professor David R. Fraser, PhD *Camb.* BVSc

Pro-Dean

Professor Michael M. Bryden, BVSc *Qld* DScVM *Cornell* PhD DSc, FAIBiol

Associate Deans

Animal Welfare

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

Camden Campus

Associate Professor Garry M. Cross, MVSc PhD

Postgraduate-Education

Professor Reuben J. Rose, BVSc PhD, DVSc, DipVetAn, FRCVS
FACBS MAGVSc

Professional and Community Relations

Research

Professor Alan I. Husband, PhD DSc *N'cle (N.S.W.)* BScAgr, FASM

Undergraduate Education

Sub-Dean .Student Welfare

Dr G. HenryCGollins, BVSc *Brist.* PhD *Massey*, MRCVS

Secretary to the Faculty

Mary Haswell, BA

Administrative Assistants

Tess La-Lande

Patricia Moroney

Lyn Robson

Finance Officer

Ienny Recio

DEPARTMENTS

Animal Science

Sydney

Professor

David R. Fraser, PhD *Camb.* BVSc

Appointed 1986

Associate Professors

Gareth Evans, BA *Oxf.* PhD

Chis Maxwell, BScAgr PhD

Christopher Moran, PhD *A.N. U.* BSc

Frank W. Nicholas, PhD *Edin.* BScAgr

Grant M. Stone, BScAgr PhD

Senior Lecturer

David L. Evans, BVSc PhD

Lecturers

Melanie Collier, BSc PhD *Leeds*

Paul McGreevy, BVSc PhD *Brist.*

Rosanne M. Taylor, BVSc PhD

Associate Lecturer

Michelle L. IHyHe, BScAgr PhD

Senior Technical Officers

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

Angelika Truhe

Technical Officers

Dung T. Doan

Kim Heasman

Helen Hughes

Michael Lensen

Kerry Murdoch

Andrew Souter

Administrative Assistant

Margaret Byrne

Camden

Associate Professors

Derick Balnave, PhD DSc *Belf.* FRSCChem

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

James M. Gooden, B AgSc *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

Kaylene A. Scrimgeour

Administrative Assistant

Elizabeth Thomas

Animal Attendants

Melinda Jones

Kim McKean

Honorary Appointments

Emeritus Professors

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

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

FIBiol CBiol

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

Honorary Associates

J. Black, PhD *Melb.*

I. Cart, PhD *EastAnglia*

R. Giles, PhD

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

I.R. Mercer, BSc *W.Aust.* PhD *Camb.*

B.L. Sheldon, BAgSc PhD

Veterinary Anatomy and Pathology

Professor

Michael M. Bryden, BVSc *Qld* DScVM *Cornell* PhD DSc, FAIBiol

Appointed 1988

Hughes Professor

Alan I. 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

Senior Lecturers

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

Gary S. Grohmann, BSc(Hons) *UN.S.W.* PhD, FASM

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

Nicholas C. Sangster, BSc(Vet) BVSc PhD

Lecturers

Rhondda B. Canfield, BVSc PhD, MRCVS
Malcolm P. France, BVSc PhD
Glenn M. Shea, BVSc PhD

Associate Lecturer

Susan Hemsley, MVSc PhD

Senior Research Fellow

Vivienne E. Reeve, BSc PhD

Research Fellow

Noriko Nishimura, MFoodSc *Kyoto Women's Uni* PhD *Aichi MU*

Professional Officer, Grade IV

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

Professional Officer Grade I

Denise I. Wigney, BVSc DipVetPath

Professional Assistant Grade II

Patricia A. Martin, MVSc

Research Officer

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

Research Assistant

Greg Nowak, BBiotech(Hons) *W'gong*

Postdoctoral Research Fellows

Jeffrey Downing, DipAgr *Wagga Agric. Coll.* BSc PhD *Macq.*

Nicola Kingsford, BScAgr BSc(Hons) PhD

Aleta Knowles, BSc(Hons) PhD *Qld*

Wendy Muir, BScAgr(Hons) PhD

Senior Technical Officers

Richard Borg

B ozena Jantulik

Sally E. Pope, BTHC

George Tsoukalas, PTHC

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

Technical Officers

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

Elaine Chew, BSc DipPathTech *STC*

Monita Dias, BSc *UTS*

Norman Dow

Taurie Mitchell, BSc *W'gong*

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

Don Slade

Adrian Wotton, Ass.Dip.Bio.Tech *N.S. W.I. T.*

Laboratory Assistants

Harri Rintala, Ass.Dip.Bio.Sc *STC*

Frank Taeker, BSc *Macq.*

Executive Assistant

Nanette R. Lawrence

Administrative Assistants

Lyn Hicks

Lyndell M. Tollefsen

Honorary Appointments

Emeritus Professors

R.M. Butterfield, PhD DVSc *Qld* MVSc, FACVSc

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

Honorary Associates

D.H. Cato, MSc PhD

G.D. Bailey, BVSc PhD DipVetClinStud

T.J. Lockett, Bsc (Hons) *Adel.* Phd *Adel.*

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

Andrew K.W. Wood, PhD *Melb.* MVSc DipVetRad

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

William L. Porges, *HDAHawkesburyAgric. Coll.* DipEd(Tert) *Darling Downs* I.A.E. BVSc PhD, MRCVS

Superintendent of the Veterinary Teaching Hospital and Senior Lecturer

David B. Church, BVSc PhD, MACVSc

Clinical Registrars

Vanessa Barrs, BVSc

Jason Beck, BVSc, MACVSc

David Simpson, BVSc, MVCS

Graham Swinney, BVSc DVCS, MACVSc

Clinical Residents

Sue Foster, BVSc

Penny Tisdall, BVSc

Visiting Lecturers/Demonstrators

Graeme S. Allan, MVSc DipACVRad, FACVSc

Anthony P. Black, BVSc, FACVSc

Richard Dixon, MS *Iowa* MVSc DipACVRad, MACVSc MRCVS ARACVR

Jeffrey S. Smith, BVSc DipACVO, FACVSc

Don Turner, BVSc PhD, FACVSc

R. Max Zuber, BVSc, FACVSc

Senior Technical Officer

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

Radiographer

Helen M. Laurendet, BSc(Appl), MIR

Accounts Clerk

Maureen Mahoney

Animal Attendants

Rhonda L. Foreman

Angela Howie

Antonio Nastasi

Janelle Patten

Georgina Phillips

Administrative Assistants

Leonie Beadman

Sarah Ingham

James M. Posen

Patricia Roberts

Honorary Appointments

Emeritus Professor

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

Honorary Associate

CR. Howlett, BVSc PhD, MRCVS MACVSc

Camden

Professor in Veterinary Clinical Studies (Personal Chair)

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

Appointed 1989

Associate Professors

Garry M. Cross, MVSc PhD

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

Associate Professor and Superintendent of the Rural Veterinary Centre

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.* MACVSc RFD

Robert J. Rawlinson, BVSc DVR, FACVSc

Lecturers

Kym A. Abbott, BVSc MVS, FACVSc
Jennifer L. Hodgson, BVSc DipVetPath PhD *Washington State*

Senior Veterinary Registrars

Andrew Dart, BVSc DipVetClinStud DipACVS
Elizabeth Dill-Macky, BVSc DipVetClinStud
Sarah Goldsmid, BVSc MVetClinStud, FACVSc
Stephen A. McClintock, BVSc MVetClinStud, MACVSc
Robert Rheinberger, BVSc, MACVSc MRCVSc
Robert C. Whitton, BVSc, FACVSc

Clinical Pathologist

Allan Kessell, BVSc, MVCS

Clinical Residents

Mamie Coulton, BVSc DipVetClinStud
Lucile Creis, BVSc
Bradley Dowling, BVSc
Nicholas Malikides, BVSc DipVetClinStud
Neil Moss, BVSc

Interns

Petra Cernikova, BVSc DipVetClinStud
Janine Dwyer, BVSc
Craig Kelly, BVSc DipVetClinStud
Rachel Lambeth, BVSc
David Searle, BVSc

Nursing Staff

Julie Bennetts
Karen Ross

Principal Research Fellow

Herman W. Raadsma, MSc(Agr) PhD

Administrative Officer

Warren J. Kelly, AICM

Senior Technical Officer

Marilyn Jones

Technical Officers

Sandra Biffin
Ron Henderson
Craig L. Kristo
Jiri Tasler

Research Assistants

Om P. Dhungyel, BVSc MScVetSc
Shirley P. Ray, BAppSc N.S. W.I. T. MSc N.S. W. DipEd

Laboratory Assistant

Eileen Risby

Animal Attendants

Raymond Clissold
Barry Gray
Barry Hall
David Palmer
Matthew Van Dijk

Administrative Assistants

Helen Frappell
Selena Marcusson
Deanna Rickard
Colleen Ritchard
Katherine Shepherd

Honorary Associates

J.B. Mattick, PhD *Monash* BSc
J.I. Rood, BSc PhD *Monash*

TEACHING STAFF FROM OTHER FACULTIES

Biochemistry

Associate Professor

Michael B. Slaytor, MSc PhD

Biology

Director of First Year Biology

Mary Peat, BSc *Birm.* PhD *Brist.*

Biometry

Lecturer

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

Chemistry

Director of First Year Studies

Raymond K. Pierens, MSc PhD, MRSCHEM MRACI CChem

Crop Sciences

Senior Lecturer

Dennis R. de Kantzow, BScAgr DipAgrEc, FAIAS

Pharmacology

Senior Lecturer

Jill E. Maddison, BVSc PhD DipVetClinStud, FACVSc

Physics

Lecturer in charge of First Year courses

Rosemary Millar

Scholarships and prizes: undergraduate

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

Scholarship or prize	Value \$	Qualifications
Matriculation		
Alexander Donald	250	Student from Sydney Grammar School
Martin McIlrath	500	Male student—preference to sons of ex-servicemen
Undergraduate		
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
Auxiliary to the Australian Veterinary Association (N.S.W. Division) Prize	80	Proficiency in Biochemistry
Australian Veterinary Association Auxiliary to the Australian Veterinary Association (N.S.W. Division) Prize in Animal Genetics	book	Veterinary Physiology in 2nd year and 3rd year Proficiency in Veterinary Pathology
Auxiliary to the Australian Veterinary Association (N.S.W. Division) Prize in Animal Genetics	50 (voucher)	Proficiency in 4th year Veterinary Clinical Pathology Veterinary Clinical Pathology
Auxiliary to the Australian Veterinary Association (N.S.W. Division) Prize for Third Year students	50 (books)	Greatest improvement in 3rd year after having passed 2nd year with more than 60%
Auxiliary to the Australian Veterinary Association (N.S.W. 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
Bloodhorse Breeders' Association of Australia (N.S.W. Division)	100	Proficiency in 5th year in Equine Medicine and Surgery and the equine clinical assessment
Rex Butterfield Prize in Veterinary Anatomy	50	Proficiency in 2nd year in Veterinary Anatomy
H.R. Carne Prize and Medal	100 + medal	Proficiency in the examinations for the degree of Bachelor of Science (Veterinary)
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	100	Highest aggregate marks in 2nd and 3rd year Veterinary Physiology in sequential years
Farr 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 each (3)	Proficiency in 1st year in Chemistry, in Physics and in Biology
Robert Reeves Hodgekiss Prize for Equine Research	250	Student essay
K.G. Johnston	60	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
Martin McIlrath	490	Proficiency by male students in all years preference to sons of ex-servicemen
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— awarded by N.S.W. Division of Australian Veterinary Association	3 yrs membership	Proficiency in 4th year in Veterinary Assoc clinical studies
Beri Sinkovic Poultry Medicine Prize	200	Proficiency in 5th year in poultry medicine
Stewart	180	Proficiency in 4th year in veterinary medicine
J.D. Stewart	60	Student essay
S.T.D. Symons	500	Proficiency in final year in clinical subjects
Uncle Ben's of Australia Pty Ltd	50	Proficiency in 4th year in small animal medicine
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 Rural Veterinary Centre 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 catde and replacement stock, a total of more than 1200 catde. 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 Rural Veterinary Centre, 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 Bringelly Farms Centre, 10km north of Corstorphine, provides extensive sheep, beef and dairy catde 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 Rural Veterinary Centre, 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 telephone numbers are:

The University of Sydney (Camden)—(02) 9351 1622

Rural Veterinary Centre—(02)9351 1777

Students—(02)9351 1278,(02)9351 1281,(02)9351 1282,
(02) 9351 1283, (02) 9351 1284

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 \$160.00 per week in 1998.

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; telephone (02) 9351 1622, fax (02) 9351 1664.

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

Department of Veterinary Clinical Sciences:
telephone (02) 9351 1611, fax (02) 9351 1618.

Department of Animal Science:
telephone (02) 9351 1665, fax (02) 9351 1693.

Rural Veterinary Centre, 410 Werombi Road, Camden 2570;
telephone (02) 9351 1777, fax (02) 4655 1212.

Nepean Hall, 345 Werombi Road, Camden 2570;
telephone (02) 9351 1662, fax (02) 9351 1690.

Horse Unit, 65 Cobbitty Road, Cobbitty 2570;
telephone (02) 4651 2283.

Lansdowne Farm, 74 Cobbitty Road, Camden, 2570;
telephone (02) 4651 2328.

May Farm, May Farm Road, Mt Hunter, Camden 2570;
telephone (02) 4654 5239.

McGarvie Smith Animal Husbandry Farm, Elizabeth Drive,
Badgery's Creek, 2171; telephone (02) 4774 8184.

Plant Breeding Institute, 107 Cobbitty Road, Cobbitty 2570;
telephone (02) 9351 8800, fax (02) 9351 8875.

Wolverton Dairy Farm, Greendale Road, Bringelly 2171;
telephone (02) 4774 8013.

Libraries

Badham Library

Badham Library holds most of the material needed by veterinary science staff and students, especially in the later years of their courses. The Library covers the fields of agriculture, plant industry and agricultural economics, botany, zoology, genetics and veterinary science.

The Library is open during semester from Monday to Friday between 8.30 am and 7.30 pm and on Saturday between 10.00 am and 5.00 pm. Vacation hours vary and are posted in the Library.

Other libraries containing material of use to veterinary science students are Fisher Library (first-year students) and the Hector Geddes Library at the University farms, Camden.

Books, but not periodicals, may be borrowed from these libraries. Use of reserve material is for limited periods only. Photocopying facilities are available.

Mathematics Learning Centre

The Mathematics Learning Centre offers help to students who enter the University with insufficient preparation in mathematics to enable them to cope with the mathematical requirements of their chosen course.

Older students who may not have done mathematics for several years and some overseas students may need some help with biometry in first year Veterinary Science. If you are doubtful whether you are well enough prepared for a course, you should contact the Mathematics Learning Centre for advice.

The Centre can help you decide which topics you need to do extra work on. It provides resources for individual study, with guidance from tutors.

Location

The Centre is on the fourth floor of the Carslaw building. Any student seeking assistance should call at the Centre, or phone 9351 4061.

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 dinner, an annual dance and end-of-semester social gatherings, and arranges for the regular delivery of addresses on general and scientific topics. The journal of the society, *Centaur*, is published each year (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

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 toward the end of 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 Badgerly'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 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.

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.

9. General Information

Admissions Office

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

Phone: +612 93514117
+612 93514118
+61 2 9351 3615 - Special Admissions (including Mature Age)
Fax: +612 93514869
E-mail: admissions@records.usyd.edu.au

This office services prospective local undergraduate students. Applicants without Australian citizenship or permanent residency should contact the International Office. Postgraduate students should contact the appropriate faculty.

Assessment

For matters regarding assessment, refer to the relevant Department.

Co-op Bookshop
Transient Building
F12-Transient
The University of Sydney
NSW 2006 Australia

Phone: +612 9351 3705
+612 93512807
Fax: +61 2 9660 5256
E-mail: sydu@mail.coop-bookshop.com.au
Website <http://mail.coop-bookshop.com.au/coop.html>
Sells textbooks and general books. 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 two weeks 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

The Student Information Bulletin is sent to all enrolled students in early to mid-October, and contains instructions on the procedure for pre-enrolment.

Examinations

Examinations and Exclusions Office

Student Centre
Level 1
F07 - Carslaw
The University of Sydney
NSW 2006 Australia

Phone: +612 93514005
+612 93514006
Fax: +612 93517330
E-mail: Exams.Office@exams.usyd.edu.au

The Examinations and Exclusions Office looks after exam papers, timetables and exclusions.

First-year timetable

A print-out of first-year lecture and tutorial times is available from the Faculty Office.

Graduations

Ground Floor, Student Centre
F07 - Carslaw
The University of Sydney
NSW 2006 Australia
Phone: +612 93514009
Fax: +612 93515072
E-mail: Naomi@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.

Normally a matter should be resolved by discussing it with the academic staff member concerned, or with a senior member of staff within the department. However, a situation could arise where you might wish to have a decision reviewed or to draw attention to additional relevant information. In this case you should put your case in writing to the head of department and if you're still not satisfied with the result you should contact your Dean. Only after following these steps can you appeal to the Senate. In the case of examination results the appeal may be made to the department. Parking appeals should be addressed to the Manager, Campus Services. You may wish to seek assistance or advice from the SRC regarding an appeal; if so, contact the

Education/Research Officer

Level 1
Wentworth Building
Phone: +612 9660 5222
HECS, fees, other charges
Phone: +61 2 9351 5659, 9351 2086, 9351 5499 and 9351 5062
Fax: +612 93515081
+612 93515350

Library (Fisher)

F03 - Fisher Library
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
+612 9351 2265 — Loans, overdue enquiries
Fax: +61 2 9351 2890 — Administration
+61 2 9351 7278 — Renewals
E-mail: loanenq@library.usyd.edu.au — Loan and Library enquiries
reqill@library.usyd.edu.au — Inter-library Loans
Website <http://www.library.usyd.edu.au/> — Fisher Library Home Page
<http://www.library.usyd.edu.au/Services/Libraries/Fisher/index.html>

Student Centre

Ground Floor
F07 - Carslaw Building
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 4109 — Handbooks
+612 93515060 — Prizes
Fax: +612 93515081
+612 93515350
E-mail: admissions@records.usyd.edu.au

Part-time, full-time

A student is normally considered as full-time if they have a HECS weighting of at least .375 per 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. In addition, the Act 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 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. Enquiries should be directed to the:

Freedom of Information Coordinator and Privacy Officer

c/- Archives-A14
Phone: +612 93514263
Fax: +612 93517304
E-mail: trobins@mailto.usyd.edu.au
Website <http://www.usyd.edu.au/su/foi>.

Student Services

Room 711, Level 7
A35 - Education Building
The University of Sydney
NSW 2006 Australia
Website <http://www.usyd.edu.au/su/stuserv/> Student Services

Accommodation Service

Phone: +61.2 9351 3312
Fax: +61 2 9351 7055
E-mail: larthur@mail.usyd.edu.au
Website <http://www.usyd.edu.au/su/accom/> Student Accommodation

Casual Employment

Phone: +6122 9552 2589
Fax: +61 2 9552 2589
E-mail: mross@mail.usyd.edu.au
Website http://www.usyd.edu.au/su/cas_emp/ Casual Employment

Counselling Service

Phone: +61293512228
Fax: +612 93517055
E-mail: myoung@mail.usyd.edu.au

Disability and Welfare Services

Phone: +612 93514554
Fax: +612 93517055
E-mail: cstuckin@mail.usyd.edu.au
Website <http://www.usyd.edu.au/su/disability/> Disability Services

Financial Assistance

Phone: +612 93512416
Fax: +612 93517055
Refer to the University of Sydney Calendar 1996, Volume 2, for a listing of all undergraduate and postgraduate sources, conditions and benefits or financial support funded by the University.
E-mail: psweet@mail.usyd.edu.au
Website http://www.usyd.edu.au/su/fin_assist/ Financial Assistance

Learning Assistance Centre

Phone: +612 93513853
Fax: +612 93514865
E-mail: lewalker@mail.usyd.edu.au
Website <http://www.usyd.edu.au/su/lac/>

Other student assistance

Careers Centre
Room 147, Ground Level
KOI - Mackie Building (Arundel St, Forest Lodge)
The University of Sydney
NSW 2006 Australia
Phone: +612 93513481
Fax: +612 93515134
E-mail: rawling@careers.usyd.edu.au — General Enquiries
asharp@careers.usyd.edu.au — Library
Website <http://www.usyd.edu.au/homepage/exterel/careers/index.htm>
Provides careers advice and information, Graduate Employment Services and graduate Labour market information to students and staff.

Centre for Continuing Education (bridging courses)

KOI - Mackie
The University of Sydney
NSW 2006 Australia
Phone: +612 93512907
Fax: +612 93515022
E-mail: info@cce.usyd.edu.au
Website http://www.usyd.edu.au/homepage/exterel/cont_edu/cont_edu.htm

Health service

Level 3, G01 - Wentworth
The University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3484 — Wentworth
+612 93514095 — Holme
+612 93510636 — Mallett
Fax: +612 93514110 — Wentworth
+612 93514338 — Holme
+612 93510580 — Mallett
E-mail: P.Brown@unihealth.usyd.edu.au
Provides full general practitioner services and emergency medical care to the University community

Koori Centre

RoomU201

A22 - Old Teachers' College

The University of Sydney

NSW 2006 Australia

Phone: +61 2 9351 2046 — General Enquiries

+61 2 9351 7001 — Liaison Officer

+61 2 9351 7073 — Student Counsellor

Fax: +612 93516923

E-mail: adminoff@koori.usyd.edu.au

Website <http://www.koori.usyd.edu.au/centre/>

The Koori Centre runs the AEA training program, supports Aboriginal and Torres Strait Islander students on campus and during enrolment.

There is also an educational unit which supports Aboriginal studies in the University.

Language Centre

Room 312, A19 - Griffith Taylor

A18 - Christopher Brennan

The University of Sydney

NSW 2006 Australia

Phone: +612 93512683

Fax: +612 93514724

E-mail: Langcent.Enquiries@language.usyd.edu.au

Website http://www.arts.su.edu.au/language_centre/intro.html

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.

Mathematics Learning Centre

Room 441

F07 - Carslaw

The University of Sydney

NSW 2006 Australia

Phone: +612 93514061

Fax: +612 93515797

E-mail: MLC@mail.usyd.edu.au

Website <http://www.usyd.edu.au/su/mlc/MLC.html>

Scholarships

Research and Scholarships Office

Scholarships Administration Room N410.1, A14

A14 - Main Quadrangle

The University of Sydney

NSW 2006 Australia

Phone: +612 93513250

Fax: +612 93513256

E-mail: scholars@reschols.usyd.edu.au

Website:

<http://www.usyd.edu.au/homepage/exterel/su/reschols/index.html>

International students

International Office

Level 2

K07 - Margaret Telfer

The University of Sydney

NSW 2006 Australia

Phone: +612 93514161

+612 93514079

Fax: +612 93514013

E-mail: info@io.usyd.edu.au

International Student Services Unit

Level 2

K07 - Margaret Telfer Building

The University of Sydney

NSW 2006 Australia

Phone: +612 93514749

Fax: +612 93514013

E-mail: info@issu.usyd.edu.au

Website

<http://www.usyd.edu.au/su/issu/> International Student Services Unit

Website

http://www.usyd.edu.au/homepage/exterel/internat/int_student_centre.html

Provides an advisory and counselling service to international students at The University of Sydney.

Student organisations

Students' Representative Council

Level 1, Wentworth G01

The University of Sydney

NSW 2006 Australia

Phone: +61 2 9351 2871 — President, Honi Soit

+61 2 9660 4756 — Bookshop

+61 2 9660 5222 — Legal Aid

Fax: +61 2 9660 4260

University of Sydney Union

Box 500 Holme Building

A09 - Holme

The University of Sydney

NSW 2006 Australia

Phone: +61 2 9563 6000 — Switchboard/Enquiries

+61 2 9563 6282 — Academic Dress

+61 2 9563 6103 — ACCESS Centre, Manning

+61 2 9563 6269 — Campus Store, Holme

+61 2 9563 6016 — Campus Store, Wentworth

+61 2 9563 6160 — Clubs and Societies Office

+61 2 9563 6010 — School Tutoring Co-ordinator

+61 2 9563 6032 — Union Broadcasting Studio

+61 2 9563 6115 — Welfare and Information Services Manager

Fax: +61 2 9563 6239

E-mail: enquiries@union.usyd.edu.au

Website <http://www.usu.usyd.edu.au/>

Provides welfare, social and recreational services to the University community.

Sydney University Sports Union

G09 - Sports and Aquatic Centre

The University of Sydney

NSW 2006 Australia

Phone: +612 93514960

Fax: +612 93514962

Provides services, facilities and clubs for sport, recreation and fitness.

Women's Sports Association

Room 214

A30 - Sports Centre

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

10. Glossary of Terms

Applying for a course

Admissions

The Admissions Office is responsible for overseeing the distribution of offers of enrolment and can advise prospective students regarding admission requirements.

Application

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 and Sydney College of the Arts, have additional application procedures.

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.

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.

TER

The Tertiary Entrance Rank (TER) 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.

TER cut-off

The TER of the last student admitted to a course. Some courses have a minimum TER.

Universities Admissions Centre (UAC)

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

Enrolment and general terms

Academic year

The period during which teaching takes place, from February 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 (Graduate School of Business), Camperdown and Darlington ("Main campus"), Camden (Agriculture and Veterinary Science), Conservatorium (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

Persons 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 awards 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 their behalf. Units of Study [for February 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 .375 per semester.

Intermediate

Faculty of Science: Second-year level.

Junior

First-year level.

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.

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 February 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 .375 per 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.

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 fourteen weeks during which teaching takes place. There are two semesters per year for most faculties.

Senior

Second-year level or higher.

Faculty of Science: third-year level.

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.

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.

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 \$1,000.

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 \$6,250.

Scholarship

Matriculation and undergraduate funding by application awarded on TER 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).

Appeals

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%

Terminating Pass whereby the student is deemed to have completed Unit requirements, but is not permitted to re-enrol in order to attempt to achieve a higher grade.

Fail	a mark of less than 50%
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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 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

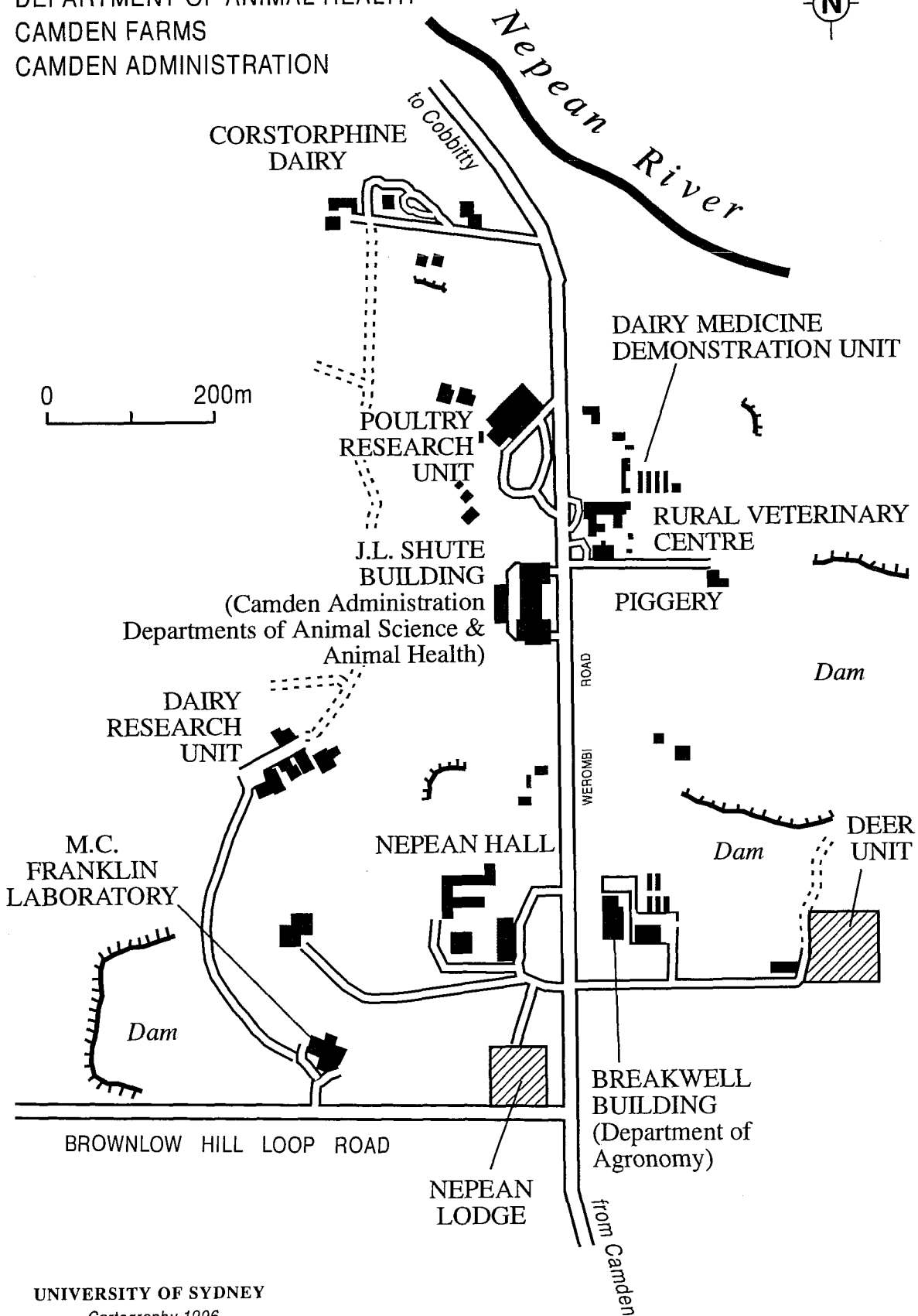
A piece of written work (sometimes called a dissertation) by a student, normally a candidate for an Honours degree or a higher award (such as Master's degree or PhD).

Weighted Average Mark (WAM)

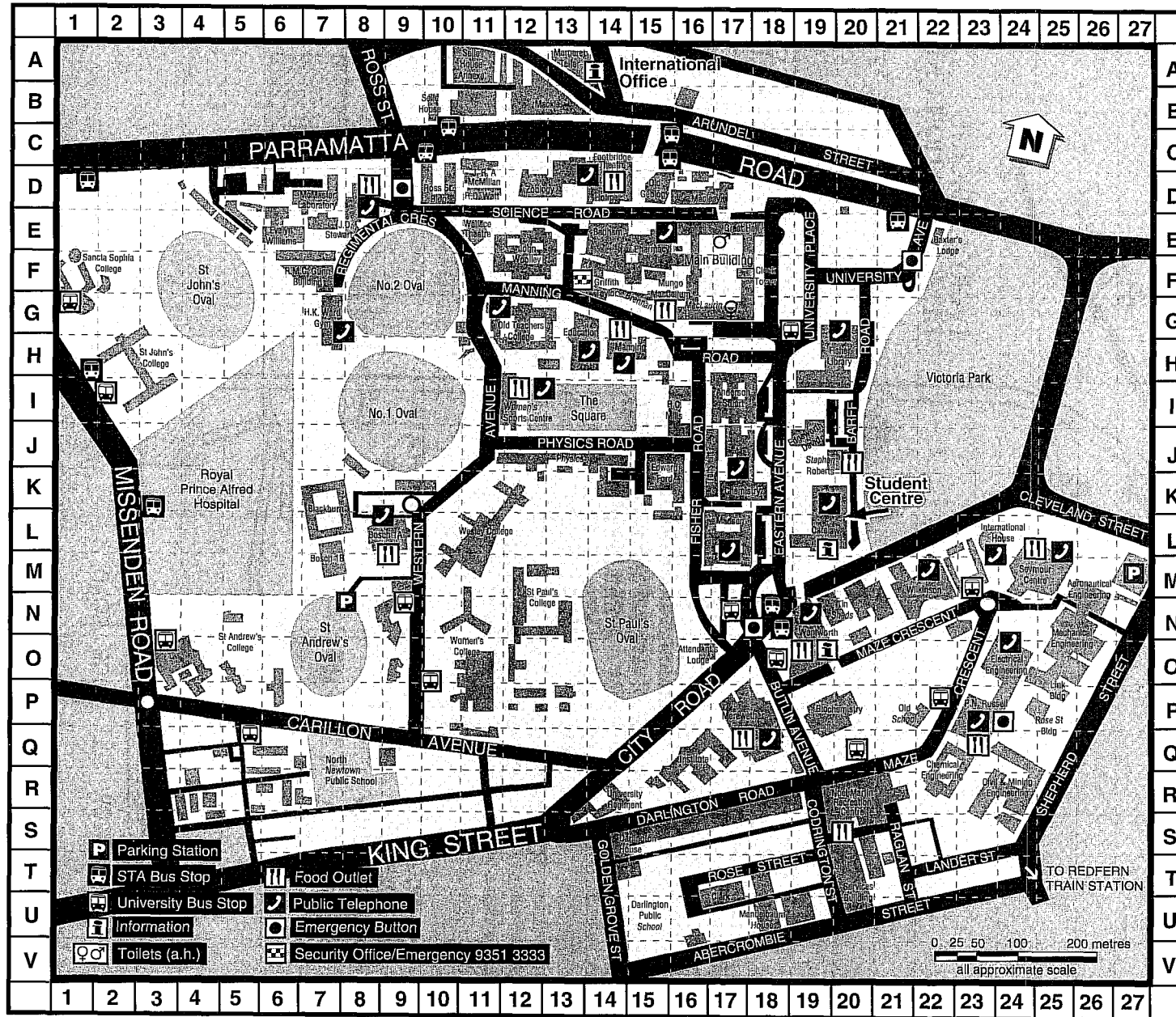
A numerical expression of a student's performance throughout their degree program, usually assigning more "weight" to Senior or Honours years. Note that the WAM calculation may differ for purposes such as eligibility to various scholarships and will vary from faculty to faculty.

CAMDEN CAMPUS

DEPARTMENT OF ANIMAL SCIENCE
DEPARTMENT OF ANIMAL HEALTH
CAMDEN FARMS
CAMDEN ADMINISTRATION



University of Sydney - Map of Main Campus



Academic & Executive Services	16E
Accounting	17P
Accommodation Service	13G
Administrative Policy & Strategic Planning Division	16E
Administrative Support Services Division	16E
Aeronautical Engineering	26M
Agricultural Chemistry & Soil Science	10D
Agricultural Economics	11D
Agriculture Faculty Office	11C
Alma Street Glasshouse	23N
Anaesthesia	7K
Anderson Stuart Bldg	17I
Anatomy & Histology	17I
Animal Health	Cam
Animal Science	7F
Anthropology	16F
Archaeology, Classics & Ancient History	16F
Architectural & Design Science	22M
Architecture, Dept & Faculty Office	22M
Archives	19H
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	MapB
Behavioural Science	Cumb
Behavioural Sciences In Medicine	7K
Biochemistry	20P
Biological Sciences	16D
Biomedical Science	Cumb
Blackburn Bldg	7K
<i>Bookshops:</i>	
Medical	7K
SRC Secondhand	19N
University Co-operative	16J
Bosch 1A (lecture theatres)	8L
Bosch 1B Bldg	7M
Brennan, O., Bldg	15F
Budget Office	16E
Business Liaison Office	11E
Business Services	19U
Campus Services	20T
Careers Centre	13B
Carslaw Bldg	19L
Cashiers	13A
Central Services	22E
Central Records Office	16E
Centre for Teaching SLeaming	19L
Chancellor's Committee Shop	17F
Chaplains' Centre	10G
Chemical Engineering	22Q
Chemistry	17K
CHd Care:	
Boundary Lane	16U
Carillon Avenue	9Q
Laurel Tree House (Glebe)	16B
Union (Darlington)	21S
Civil & Mining Engineering	24R
Clark Bldg	17T
Clock Tower	17F
Communication Disorders	Cumb
Community & Alumni Relations	16O
Community & Mental Health Nursing	Cumb
Community Health	Cumb
Community Medicine	15K
Computer Science, Basses Dept	17L
Continuing Education, Centre for	13B
Coppleston Postgraduate Medical Institute	9K
Counselling Service	13G
Crop Sciences	13F
Darlington House	14S

Development Office	16O
Disability & Welfare Services	13G
Econometrics	17P
Economic History	17P
Economics, Dept & Faculty Office	17P
Edgeworth David Bldg	19J
Education Bldg S Faculty Office	13G
Educational Development & Evaluation	15K
Educational Psych., Measurement & Technology	13G
Edward Ford Bldg	15K
Electrical Engineering	24O
Employment Service, Casual	14C
Engineering Faculty Office	25O
English	12E
Equal Employment Opportunity Unit	16S
Evelyn Williams Bldg	6E
Experimental Medicine	7K
External Relations Division	16E
Facilities Planning, Office of	20T
<i>Financial institutions:</i>	
Commonwealth	14C
Credit Union	14D
National Australia	15E
National Australia	19N
Financial Services Division	16E
Finance, Dept of	16Q
Financial Management & Reporting	13A
Financial Services Division	16E
Fine Arts	15I
Fisher Library	19G
Footbridge Theatre	14C
French Studies	15F
Garage, University	21T
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	Cumb
Health Sciences Faculty Office	Cumb
Health Service (Holme Bldg, Wentworth Bldg)	14C, 19N
History	15G
History & Philosophy of Science	19L
Holme Bldg	14C
Industrial Relations, Dept of	16O
Infectious Diseases	7K
Information Technology Services	19U
Institute Bldg	16Q
International Office & International Student Services	13A
International House	23L
International Preparation Program	20T
Italian	15I
Koori Centre	12G
Learning Assistance Centre	13G
Linguistics	16J
Link Bldg	25O
Lost Property	14F
Mackie Bldg	13B
MacLaurin Hall	16G
Macleay Bldg SMuseum	16D
Madsen Bldg	17L
Mail Room (Internal)	20T
Main Bldg	17F
Mandelbaum House	18U
Manning House	14H
Margaret Teifer Bldg	13A
Marketing, Dept of	16Q
Marketing & Publications	16E
Mathematics & Statistics	19L
McMaster Laboratory CSIRO	7D
McMillan, J.R.A., Bldg	11C
Mechanical & Aeronautical Engineering Bdg	25N

Mechanical Engineering	25N
Media Office	16E
Medical Radiation Technology	Cumb
Medicine	7K
Medicine, Dept of	7K
Medicine Faculty Office	15K
Merewether Bldg	17P
Microbiology	20P
Mills, R.C., Bldg	15I
Mungo MacCallum Bldg	15G
Music	24M
Nicholson Museum	16G
Nursing Therapeutics	Cumb
Obstetrics & Gynaecology	9K
Occupational Health	15K
Occupational Therapy	Cumb
Old Geology Bldg	15D
Old School Bldg	21P
Old Teachers' College Bldg	12G
Operations Accounting	13A
Orange Agricultural College	OrAg
Orthoptics	Cumb
Pathology	7K
Personnel Services	13A
Pharmacology	7M
Pharmacy	15E
Philosophy	17G
Photowise Imaging	20T
Physics	13J
Physiology	17I
Physiotherapy	Cumb
Planning Support Office	16E
Post Office	15E
Printing Services, University	20T
Properties & Investments	13A
Psychology	14F
Purchasing	13A
Publications Unit	16E
Public Health & Community Medicine	15K
Quadrangle	17F
Queen Elizabeth II Reserch 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	5O
St John's College	3H
St Paul's College	12N
Sancta Sophia College	1F
Schools Liaison	12B
Science Faculty Office	19L
Security & Bldg Services	14F
Selle House	10B
Semitic Studies	17F
Senate Room	17E
Services Bldg	20T
Seymour Theatre Centre	24M
Shepherd St Parking Station	27M
Sir Hermann Black Gallery	19N
Social & Policy Studies in Education	13G
Social Work & Social Policy	15I
Sociology	15I
Solicitor, University	16E
<i>Sports:</i>	
Noel Martin Recreation Centre	20R
Sports Union	7G
Swimming Pool	20R
Tennis courts	20D
Ward, H.K., Gymnasium	7G
Women's Sports Association	12I
Statistics Unrt	16E

Stephen Roberts Theatre	20J
Stewart, J.O., Bldg	8E
Stores	20T
Student Centre	19K
Student Services	13G
SRC	19N
SUPRA	4R
Surgery	7K
SyDUtech	19U
Systems Development	13A
Teaching & Curriculum Studies	13G
Tin Sheds Gallery	20M
Trades & Grounds Services	Cumb
Traffic Office	20T
Transient Bldg	16J
Union, University of Sydney	19N
Unistaff	19U
University Collection	19H
University of Sydney Club	15G
Urban & Regional Planning	22M
Veterinary Anatomy	8E
Veterinary Clinic	6E
Veterinary Clinical Sciences	6E
Veterinary Pathology	7E
Veterinary Science Faculty Office	8D
Vice-Chancellor's Office	16E
Wallace Theatre	11E
War Memorial Gallery	17E
Watt, R.D., Bldg	11D
Wentworth Bldg	19N
Wesley College	11L
Western Avenue Underground Parking Station	8N
Wilkinson Bldg	22M
Women's College	11O
Woolley Bldg, John	12E
Yeoman Bedell's Office	17E
Zoology	12D

