Semester and vacation dates 1995-96*

<table>
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</thead>
<tbody>
<tr>
<td>First Semester and lectures begin</td>
<td>Monday</td>
<td>27 February</td>
<td>26 February</td>
<td>3 March</td>
<td>2 March</td>
<td>1 March</td>
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<tr>
<td>Easter recess</td>
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<tr>
<td>Last day of lectures</td>
<td>Thursday</td>
<td>13 April</td>
<td>4 April</td>
<td>27 March</td>
<td>9 April</td>
<td>1 April</td>
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<tr>
<td>Lectures resume</td>
<td>Monday</td>
<td>24 April</td>
<td>15 April</td>
<td>7 April</td>
<td>20 April</td>
<td>12 April</td>
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<tr>
<td>Study vacation—1 week beginning</td>
<td>Monday</td>
<td>12 June</td>
<td>10 June</td>
<td>16 June</td>
<td>15 June</td>
<td>14 June</td>
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<tr>
<td>Examinations commence</td>
<td>Monday</td>
<td>19 June</td>
<td>17 June</td>
<td>23 June</td>
<td>22 June</td>
<td>21 June</td>
</tr>
<tr>
<td>Second Semester and lectures begin</td>
<td>Monday</td>
<td>24 July</td>
<td>22 July</td>
<td>28 July</td>
<td>27 July</td>
<td>26 July</td>
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<tr>
<td>Mid-semester recess</td>
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<tr>
<td>Last day of lectures</td>
<td>Friday</td>
<td>22 September</td>
<td>27 September</td>
<td>26 September</td>
<td>25 September</td>
<td>24 September</td>
</tr>
<tr>
<td>Lectures resume</td>
<td>Tuesday</td>
<td>3 October</td>
<td>8 October</td>
<td>7 October</td>
<td>6 October</td>
<td>5 October</td>
</tr>
<tr>
<td>Study vacation—1 week beginning</td>
<td>Monday</td>
<td>6 November</td>
<td>4 November</td>
<td>10 November</td>
<td>2 November</td>
<td>8 November</td>
</tr>
<tr>
<td>Examinations commence</td>
<td>Monday</td>
<td>13 November</td>
<td>11 November</td>
<td>17 November</td>
<td>9 November</td>
<td>15 November</td>
</tr>
</tbody>
</table>

* There may be variations to the semester dates for some courses.
Preface

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Getting the most from your Handbook

In this, the *Faculty of Veterinary Science Handbook*, you should find most of what you need to know about the Faculty.

The first four chapters will help you identify the people in your Faculty and determine the requirements for bachelor’s degrees. They contain outlines of the undergraduate courses offered and lists of recommended books, as well as sources of further information. Chapter 5 provides specific information on enrolment and details of undergraduate scholarships and prizes.

Information on postgraduate degrees, diplomas and scholarships may be found in Chapter 6. Chapter 7 provides information on the University farms at Camden and on Nepean Hall, the University hall of residence. Chapter 8 describes the foundations of the Faculty.

Further information relating to the University generally may be found in the University’s *Statutes and Regulations 1994-95* and in the *University of Sydney Diary* (available free from the Student Centre or from University of Sydney Union outlets).

Faculty Office
*Room 218, J.D. Stewart Building*

Contact the Faculty Office for questions or advice about:
- interpretation of by-laws and resolutions (i.e. the official rules and regulations)
- general administrative problems
- variation of enrolment
- extramural course work
- University counselling services
- booklists and Faculty timetables.
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.

D.R. Fraser
Dean

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 Undergraduates 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 BVSc 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.
J.D. Stewart Building

Round House — former large animal surgery

Evelyn Williams Building — Veterinary Teaching Hospital
1 Staff

FACULTY

Dean
Professor David Ross Fraser, PhD Camb. BVSc

Pro-Dean
Professor Michael MacLaren Bryden, BVSc Qld DScVM Cornell PhD DSc, FAIBiol

Associate Deans

Animal Welfare
Associate Professor Derick Balnave, PhD DSc Belf., FRSChem

Camden Campus
Dr Garry M. Cross, MVSc PhD

Faculty Developments
Dr John R. Mercer, BSc W.Aust. PhD Camb.

Postgraduate Education
Associate Professor Grant M. Stone, BScAgr PhD

Professional and Community Relations
Dr William L. Porges, HDA Hawkesbury Agric. Coll. DipEd(Tert) Darling Downs L.A. BVSc PhD, MRCVS

Research and Scholarship
Professor Alan J. Husband, PhD DSc N'cle (N.S.W.) BScAgr, FASM

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

Sub-Dean Student Welfare
Dr G. Henry Collins, BVSc Brist. PhD Massey, MRCVS

Secretary to the Faculty
Mary Haswell, BA

Faculty Clerk
Patricia Moroney

Administrative Assistants
Tess La-Lande
Lyn Robson

Finance Officer

DEPARTMENTS

Animal Health

Professor
*John Ross Egerton, BVSc Qld DVSce DiplBact.hand., MACVSc MASM
Appointed 1972

Associate Professor
Robert J. Love, MVSc PhD Brun., FACVSc

Associate Professor and Superintendent of the Rural Veterinary Centre
David R. Hodgson, BVSc PhD DiplACVIM, FACBS FACSM MRCVS

Senior Lecturers
Garry M. Cross, MVSc PhD
Robert J. Dixon, BSc(Vet) BVSc PhD Massey
Anthony W. English, BVSc PhD Qld, MACVSc RDF
Robert J. Rawlinson, BVSc DVR, FACVSc

Lecturers
Kym A. Abbott, BVSc MVS, FACVSc
Jennifer L. Hodgson, BVSc DiplPath PhD Washington State

Senior Veterinary Registrars
Elizabeth Dill-Macky, BVSc DiplClinStud
Stephen A. McClintock, BVSc MVetClinStud, MACVSc
Robert Rheinberger, BVSc, MACVSc MRCVS
Andrew Dart, BVSc DiplClinStud DiplACVS

Associate Lecturer

Clinical Pathologist
George P. Reppas, BVSc DiplClinPath, MACVSc

Clinical Resident
Nicholas Malikides, BVSc DiplClinStud

Interns
Barbara McCoy, BVSc
Camille Curtis, BSc DVM

Nursing Sister

Research Fellow
Herman W. Raadsma, DipAppSci(Agric) DipSciAg MSc(Ag)

Administrative Officer
Warren J. Kelly, AICM

Senior Technical Officers
Christine Girard
Marilyn Jones

Technical Officers
Peter Hamilton
Craig L. Kristo
Jiri Tasler

Research Assistants
Om P. Dhungyel, BVSc MSvetSc
Jennifer Wright, BSc Masq.

Laboratory Assistants
Alison M. Everingham
Eileen Risby

Laboratory Attendants
Julie Bennetts
Deanna Rickard

Animal Attendants
Raymond Clissold
Barry Gray
Barry Hall
Ron Henderson

1 As known at October 1994
(*) = Head of Department
Karen Ross
Matthew Van Dijk

Administrative Assistants
Colleen Ritchard
Sue Govan
Elaine McKnight
Sandra Perazza
Katherine Shepherd

Farm Overseer
Andy Scherer

General Hand
David Palmer

Honorary Associates
J.B. Mattick, PhD Monash BSc
J.I. Rood BSc PhD Monash

Animal Science

Sydney

Professor
David Ross Fraser, PhD Comb. BVSc
Appointed 1986

Associate Professors
Gareth Evans, BA Oxf. PhD
Christopher Moran, PhD A.N.U. BSc
Frank W. Nicholas, PhD Edin. BScAgr
Grant M. Stone, BScAgr PhD

Senior Lecturers
David L. Evans, BVSc PhD
Lindsay H. Heywood, BVSc PhD Qld.
Chis Maxwell, BScAgr PhD

Associate Lecturer
Rosanne M. Taylor, BVSc PhD

Senior Technical Officers
Edward J. Damas, MSc
Irene van Ekris
Angelika Trube

Technical Officers
Dung T. Doan
Kim Heasman
Helen Hughes
Michael Lensen
Kerry Murdoch
Andrew Souter
Brian Tyrell

Administrative Assistants
Carolyn Butler
Margaret Byrne

Camden

Associate Professor and William McIlrath Fellow
Roy C. Kellaway, BSc(Hort) Lond. PhD N.E. DTA W.I.

Associate Professors
Derick Balnave, PhD DSc Belf., FRSC Chem
Wayne L. Bryden, MRurSc DipEd N.E. PhD

Garland Senior Lecturer
Bevan G. Miller, BVSc PhD

Senior Lecturers
James M. Gooden, BAgSc AM. PhD

Ian J. Lean, BVSc PhD Calif.
Peter C. Wynn, MRurSc DipEd N.E. PhD

Senior Research Fellow
Roger Giles, PhD

Professional Officer
Yasin Mollah, BSc MSc(Chem) Dhaka MRurSc N.E. PhD

Senior Technical Officer
Chris Stimson

Technical Officers
John Ellsmore
John McClure
Kaylene A. Scrimgeour

Administrative Assistants
Carole Browne
Elizabeth Thomas

Animal Attendants
Melinda Jones
Kim McKeage

Honorary Appointments

Emeritus Professors
E.F. Annison, PhD DSc Lond.
C.W. Emmens, PhD DSc Lond. HonDVsC, FSS FAA
HonFACVSc FIBiol CBiol

Honorary Associates
J.K. Kong, DSc Bruxelles
I.C.A. Martin, BVSc PhD
B.L. Sheldon, BAgSc PhD

Research Associate
Elizabeth J. Post, BSc PhD

Veterinary Anatomy

Professor
*Michael MacLaren Bryden, BVSc Qld DScVM Cornell PhD
DSc, FAIBiol
Appointed 1988

Senior Lecturers
Paul R. Hopwood, DipTertiaryEd N.E. BVSc PhD, MRCVS
Patrick H. McCarthy, BVSc PhD Qld DrVetMed Med FLT. Berlin
MVSc, FAIHA

Lecturers
Geraldine B. Hunt, BVSc MVetClinStud PhD, FACVSc
Glenn M. Sheen, BVSc PhD

Professional Officer, Grade III
Rhonda B. Canfield, BVSc PhD, MRCVS

Administrative Assistant
Lyn Hicks

Senior Technical Officers
Richard Borg
Bozena Jantulik

Technical Officer
Don Slade

Laboratory Attendant
Norman Dow

Honorary Appointments

Honorary Associates
Rex M. Butterfield, PhD DVSc Qld MVSc, FACVSc
Douglas H. Cato, MSc PhD
Veterinary Clinical Sciences

Professor
Reuben J. Rose, BVSc PhD DVM DipVetAn, FRCVS FACBS MACVSc
Appointed 1989

Associate Professors
Christopher R. Bellenger, BVSc PhD, FACVSc MRCVS
A. David J. Watson, BVSc PhD, FRCVS FFAVPT MACVSc
Andrew K. W. Wood, PhD Melb. MVSc DipVetRad

Senior Lecturers
Phillip E. Davis, MVSc, MRCVS
Richard Malik, PhD AN. U. BVSc M VetClinStud DipVetAn, FACVSc (part-time)
William L. Porges, HDA Hawkesbury Agric. Coll. DipEd(Tert)

Superintendent of the Veterinary Teaching Hospital and Senior Lecturer
David B. Church, BVSc PhD, MACVSc

Lecturers
Darien Lawrence, BVSc Massey MS Florida
Martin R.B. Pearson, BVSc Old Brist. CertVA, MRCVS

Senior Clinical Registrars
Sarah E. Goldsmid, BVSc MVetClinStud, MACVSc
Nicholas Kannegieter, PhD Massey BVSc DipVetClinStud, FACVSc

Clinical Registrars
Paul Mahoney, BVSc DVR, MRCVS
Graham Swinney, BVSc DVCS, MACVSc
Mark Tahminjdis, BVSc

Clinical Residents
Vanessa Barrs, BVSc
Robert M. Christley, BVSc DipVetClinStud
Elisabeth Court, BVSc
Nikolaus G. Kritz, Mag med vet Vienna
Jean-Paul Ly, BVSc
Peter Melleuish, BVSc DipVetClinStud
Jill Nash, BVSc

Intern
Carla Medeiros, BVSc Parana

Visiting Lecturers/Demonstrators
Graeme S. Allan, MVSc DipACVRad, FACVSc
Anthony P. Black, BVSc, FACVSc
James Delia-Vedova, BVSc
Brenda Dixon, BVSc OId
Richard Dixon, MS Iowa MVSc DipACVRad, MRCVS ARACVR
Tom Donnelly, BVSc DipVetPath, AmCollAnMed
Jeffrey S. Smith, BVSc DipACV0, FACVSc
Craig Suann, BVSc DipVetClinStud DipLASurg
R. Max Zuber, BVSc, FACVSc

Professional Officer, Grade III
Robert A. Waters, DipMT A.I.M.L.T., AAIMLS

Senior Technical Officer
Dorothy R. Lewis, MSc Br.Col.

Technical Officer
Anthony W. Schwartz

Radiographer
Helen M. Laurenct, BSc(Appl), MIR

Accounts Clerk
Maureen Mahoney

Equine Technician
Patrick Brady

Research Assistant
Shirley P. Ray, BA ppSc N.S.W.I.T. MSc N.S.W. DipEd

Animal Attendants
Jan Dobson
Rhonda L. Foreman
Antonio Nastasi
Janelle Patten
Peter A. Stephens

Administrative Assistants
Leonie Beadman
James M. Posen
Patricia Roberts

Honorary Appointments

Honorary Associates
S.B. Barnett, MSc PhD
Allan Duffield, BSc PhD WAust.
C.R. Howlett, BVSc PhD, MRCVS MACVSc
B.K. Milthorpe, BA Macq. PhD AN.U.
David A. Walsh, HDA Hawkesbury Agric. Coll. MSc PhD

Veterinary Pathology
Hughes Professor
*Alan James Husband, PhD DSc N`cle (N.S.W.) BSc Agr, FASM

Associate Professors
Paul J. Canfield, BVSc PhD, FACVSc MRCPath MRCVS
Daria N. Love, PhD DVSc, FRCPA Path MASM FACBS
Terence L. Rothwell, PhD DVSc MRCVS

Senior Lecturers
G. Henry Collins, BVSc Brist. PhD Massey, MRCVS
Nicholas C. Sangster, BSc(Vet) BVSc PhD

Lecturers
Graham D. Bailey, BVSc PhD DipVetClinStud
Malcolm P. France, BVSc

Senior Research Fellow
Vivienne E. Reeve, BSc PhD

Professional Officer, Grade IV
David L. Griffin, BSc Macq. DipMT A.I.M.L.T., MAIMS

Professional Officer, Grade III
Beverley A. Horsburgh, 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

Senior Technical Officers
Sally E. Pope, BTHC
George Tsoukalas, PTHC

Technical Officers
Darren R. Head, APTC
Svetlana M. Patoka, BSc Inst. ofKriboy Rog MTC
Karen L. Wadwell, PTHC BA ppSc(MedLabSci) C. Sturt

Laboratory Attendant
Bronwyn Barratt

Administrative Assistant
Lyndell M. Tollefsen
Honorary Appointments

Honorary Associates
J.C. Boray, DVM PhD Bud., FACVSc
D.L. Emery, BSc(Vet) BVSc PhD
P.A.W. Harper, BVSc PhD
C.R. Howlett, BVSc PhD
E. Lacey, BPharm MSc PhD
T.K. Mukkur, BVSc AH Punjab MVSc I.V.R.I. PhD Flor., FASM
J.W. Steel, BSc PhD
J.M. Whalley, BSc PhD

OTHER UNITS

Laboratory Animal Services
Acting Director
Robert C.C. Ratcliffe, BVSc, MRCVS MACVSc

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. BSc

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

Anatomy and Histology
1995 First Year
Reader
Johnston W. McAvoy, BSc Belf. PhD Flin.

Pharmacology
Senior Lecturer
Jill E. Maddison, BVSc PhD DipVetClinShid, FACVSc

Physics
Lecturer in charge of First Year courses
Rosemary Millar
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 sixteen 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 under-graduates volunteering for active service. Even after the war recovery of the School was slow and it took the full resources of Professor J. D. Stewart to justify the continuing existence of the Veterinary School. Gradually the numbers of enrolled students increased, while the graduates of the School enhanced its reputation. By 1928 there were 25 undergraduates, which increased to over 100 in 1935. In 1930 the Veterinary School of the University of Melbourne ceased its undergraduate training and the Sydney School became solely responsible for veterinary training in Australia—until the Queensland Veterinary School opened in 1936 and the Melbourne Veterinary School reopened in the 1960s.

In 1936 the University, in association with the McGarvie Smith Institute, purchased and developed a 160 hectare property at Badgery’s Creek, to be used for the training of veterinary students in animal husbandry. The purchase coincided with the reintroduction, in 1937, of a five-year course of studies and training for the BVSc degree—the course had been reduced to four years in 1914. In 1939 Professor Stewart retired. From the opening of the School he had been the Director, which he remained until 1920 when the Veterinary School was given full status as a faculty and he became Dean of Veterinary Science. He 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 present 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) and a combined Veterinary Physiology/Animal Science building (R.M.C. Gunn Building) have been erected at the Sydney campus.

The number of departments has grown from one to five, and over 2500 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 degree of Master of Science in Veterinary Science, Master of Veterinary Science, Master of Veterinary Clinical Studies and Doctor of Philosophy available to graduates. Future progress is assured.

Membership of the Faculty
Membership of the Faculty is specified in the following section of the Senate resolutions. The resolutions are published in full in the Statutes section of the Calendar.

1. The Faculty of Veterinary Science shall comprise the following persons:

(a) the Professors, Readers, Associate Professors, Directors, Senior Lecturers, Lecturers and Associate Lecturers being full-time or fractional (50% or greater) members of the tenured, tenurable and fixed-term teaching staff in the Departments of Animal Health, Animal Science, Veterinary Anatomy, Veterinary Clinical Sciences and Veterinary Pathology;

(b) the Heads of the Departments of Biochemistry, Histology and Embryology, and Pharmacology, together with one full-time permanent member of each of these Departments nominated biennially by the Head of the Department;

(c) the Heads of the Schools of Physics, Chemistry and Biological Sciences or one full-time permanent member of the academic staff of each of those Schools nominated biennially by the Head of the School;

(d) the Dean of the Faculty of Agriculture;

(e) the Director of the University farms;

(f) the Superintendents, as defined under the N.S.W. Veterinary Surgeons Act, and
Senior Clinical Pathologist, being full-time members of the staff of the Veterinary Teaching Hospital and the Rural Veterinary Centre;

(g) the Director and the Deputy Director of Laboratory Animal Services;

(h) two members of the staff of the Department of Crop Sciences nominated by the Head of the Department;

(i) not more than three persons distinguished in the field of veterinary science appointed by the Faculty on the nomination of the Dean of the Faculty;

(j) one nominee each of the Australian College of Veterinary Scientists, the N.S.W. Division of the Australian Veterinary Association and the J.D. Stewart Foundation, who may be a member of the Faculty by virtue of one of subsections (a) to (i) inclusive;

(k) the Director of the Postgraduate Foundation and the Postgraduate Committee in Veterinary Science and the Directors of the Dairy Husbandry Research Foundation and the Poultry Husbandry Research Foundation ex officio;

(l) full-time members of the research staff of the Faculty holding the position of Research Fellow or above;

(m) not more than three students elected in the manner prescribed by resolution of the Senate; and

(n) such other persons as may be appointed by the Faculty on the nomination of the Dean of the Faculty.

2. A person appointed pursuant to subsections l(i), (j) and (n) shall be appointed for a period of three years and shall be eligible for reappointment for one further period of three years.

**Student membership of the Faculty**

The first student members of the Faculty of Veterinary Science were elected to hold office in 1974.

The three student members are two undergraduate students enrolled as candidates for the degrees of Bachelor of Veterinary Science or Bachelor of Science (Veterinary) at the University of Sydney and one postgraduate enrolled as a full-time or part-time candidate for a postgraduate degree or diploma in the Faculty, not otherwise eligible for membership of the Faculty.
The courses for the BVSc degree extend over a minimum of five years. First year is concerned with the basic sciences and pre-clinical subjects. Some time is spent also at the University farms, Camden, where students are given training in the practical aspects of animal husbandry. Second and third years concentrate on pre-clinical and para-clinical subjects although introductory courses for veterinary medicine and surgery are started towards the end of third year. Students in fourth year continue their studies in the clinical subjects. Much of the time is spent in the Sydney University Veterinary Teaching Hospital where diseases of small animals and horses are diagnosed and treated. The final year is spent at the University farms, Camden, where students normally live in at Nepean Hall. Clinical exposure to large animals as well as small animals occurs through the Rural Veterinary Centre. Students also attend theory and practical courses in aspects of diseases of farm animals.

Students may interrupt their basic undergraduate candidature to undertake a year of advanced study in a subject area which may lead to the degree of Bachelor of Science (Veterinary).

Further information on the courses for the BVSc degree is given below.

**Bachelor of Veterinary Science: BVSc**

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

1. Candidates for the degree of Bachelor of Veterinary Science shall complete the following courses of instruction:

   (i) In the first year—
   - Introductory Veterinary Science V115
   - Introductory Biology V124
   - Chemistry V103
   - Physics I (Life Sciences) V107
   - Veterinary Anatomy and Histology I V100
   - Veterinary Cytology V110
   - Biometry V112
   - Animal Husbandry V101
   - Pastoral Botany and Agronomy V116

   (ii) In the second year—
   - Veterinary Anatomy II V203 (1995)
   - Veterinary Anatomy and Histology II V207 (1996)
   - Veterinary Embryology V218 (1996)
   - Veterinary Histology V214 (1995)
   - Veterinary Physiology V206
   - Biochemistry V202
   - Animal Genetics V201
   - Veterinary Pathology V225
   - Animal Nutrition V321
   - Veterinary Physiology V317
   - Veterinary Pathology V315
   - Veterinary Bacteriology and Mycology V302
   - Veterinary Virology V309
   - Veterinary Pharmacology and Toxicology V306
   - Veterinary Medicine V323
   - Veterinary Surgery V328
   - Veterinary Parasitology V314

   (iii) In the third year—
   - Veterinary Medicine V405
   - Veterinary Surgery V407
   - Veterinary Parasitology V426
   - Veterinary Anatomy I V413
   - Veterinary Clinical Pathology V404
   - Applied Reproduction and Obstetrics V422
   - Animal Nutrition V421
   - Animal Husbandry Practical Report
   - In the fourth year—
   - Bird Health and Production V502
   - Horse Medicine V503
   - Pig Health and Production V526
   - Cattle Health and Production V507
   - Special Medicine V508
   - Sheep Health and Production V519
   - Veterinary Surgery V505
   - Veterinary Public Health V504
   - Essay V517

2. A course 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 course' 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 course.

3. Class examinations may be held during each course 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 courses of study for the degree.

   (2) At each annual examination, a candidate shall be required to give proof of his or
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 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 courses 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 degree of Bachelor of Veterinary Science, candidates shall be required to produce evidence of having spent such periods as may be specified by the Faculty in gaining approved practical experience in animal management.

10. Before admission to the degree of Bachelor of Veterinary Science, each candidate shall be required to complete such practical clinical work as may from time to time be prescribed by the Faculty.

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 a degree of Bachelor of Veterinary Science.

(4) Notwithstanding the provisions of subsection (3) of this section, the Faculty, for special reasons, may permit the award of Honours to a candidate who has taken longer to complete the course than the period specified in that subsection.

(5) If a candidate graduates with First Class Honours and the Faculty is of the opinion that the candidate’s work is of sufficient merit, the candidate shall receive a bronze medal.

Award of honours

A system of Weighted Average Marks (WAM) is used as a measure of academic performance each year. The WAM is calculated by summing the products of the marks achieved and the weighted values of the courses taken and then dividing by the sum of the weighted course values. The formula used is:

$$WAM = \frac{\sum WvM}{\sum Wv}$$

where Wv is the weighted course value and M is the mark achieved out of 100. Only the first attempt at each course is included, except where discontinued with permission. Weights are determined on the basis of timetabled hours. Where an exemption is granted from a subject, the mark used for the calculation of the WAM is the mean mark of contemporary students in that subject.

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 degree to interrupt their formal studies for one year to take part in the research of the Faculty and work for the BSc(Vet) degree. Many students have done so and have found the experience enjoyable and rewarding. Candidates for the BSc(Vet) degree 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) degree 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 second semester.

The purpose of the degree 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 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 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.P. 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 III.

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, 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 behalf of the Board of Examiners and the Faculty's requirements concerning the degree is to lie with the Board of Examiners and the Faculty's requirements concerning the degree is to lie with the Board of Examiners.

2. The responsibility for supervision of the administrative procedures concerned with the degree will lie with the Associate Dean and members of the Research and Scholarship 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 and Scholarship 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 through the Dean to the Board of Examiners in a report describing:
   (a) the name of the candidate;
7. The Research and Scholarship 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 and Scholarship 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 and Scholarship 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 and Scholarship 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 one hundred 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 and Scholarship 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 and Scholarship. 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 EI|

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.
Courses are subject to alteration
Courses and arrangements for courses, 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 courses, arrangements or staff allocations at any time without notice.

Course coordinators
The coordinator for each course 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. Reference books are for reference only. 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. The Language Study Centre and the Centre for Teaching and Learning offer help in this area.

H.W. Fowler A Dictionary of Modern English Usage
W. Strunk et al. The Elements of Style

First year courses

Introductory Veterinary Science V115
A course of about 8 lectures taken by all students in first year. Lectures are given on activities within the University, the undergraduate course and careers, in veterinary science.

Introductory Biology V124
Dr Peat
A course of 39 lectures on aspects of biology serving as a basis for, and supplementary to, other courses in veterinary science.

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

Reference books
D.R. Kershaw Animal Diversity (University Tutorial Press, S. Lough, 1983)

Chemistry V103
Dr Pierens
This is a two-semester course designed to provide (i) a suitable foundation for subsequent subjects such as biochemistry, 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- or 4-unit course.

Fully detailed information about the course is available from the Chemistry School.

Lectures
A course of 69 lectures comprising 42 lectures in inorganic and physical chemistry and 27 lectures in organic chemistry, with illustrations from biological areas.

Practical work
A course of 18 three-hour sessions.

Tutorials
A series of 27 tutorials (1 per week).

Examinations
Theory examinations are held at the end of each semester.

Students are advised at the beginning of the year about other factors contributing to assessment for the course.

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

Physics I (Life Sciences) V107
Mrs Millar
The physics course 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 six units: forces and energy, electricity, thermal physics, optics, ionising radiation and properties of matter. The course is taught on the assumption that students have completed Mathematics 2-unit and either Physics 2-unit or the Physics section of the Science multistrand 4-unit course for the Higher School Certificate. Tutorials are available for those who have not studied physics before.

Textbooks
Physics I Laboratory Manual, Dentistry and Veterinary Science (School of Physics, 1995)
Physics I (Life Sciences): Kane and Sternheim Physics (Wiley, 1988)

Veterinary Anatomy
The course of instruction in veterinary anatomy is given in the Department of Veterinary Anatomy in the first, second and fourth years of the veterinary course. The course covers the anatomy of domestic animals including the horse, ox, sheep, pig, dog, cat and domestic fowl.

In 1995 the components of the course are Veterinary Cytology (V110), Veterinary Anatomy and Histology I (V100), Veterinary Anatomy II (V203) and Veterinary Anatomy HI (V413).
In 1996 the components of the course are Veterinary Cytology (V110), Veterinary Anatomy and Histology I (V100), Veterinary Anatomy and Histology II (V207), Veterinary Embryology (V218) and Veterinary Anatomy III (V413).

**FIRST YEAR COURSES**

**Veterinary Cytology (V110)**
Dr Hopwood

A course of 12 lectures and 12 hours of practical classes which covers the morphology of cells and an assignment to be completed by the end of semester 1.

Textbook
H. Dellman and E.M. Brown *Textbook of Veterinary Histology* 4th edn (Lea & Febiger, 1993)

Reference books
R. Warwick and P.L. Williams (eds) *Gray’s Anatomy* (Longman, 1973)

**Veterinary Anatomy and Histology I (V100)**
Dr Hopwood

A course of 85 lectures and 105 hours of practical classes in which the anatomy of the dog is covered on a body system by body system basis.

Textbooks
H. Dellman and E.M. Brown *Textbook of Veterinary Histology* 4th edn (Lea & Febiger, 1993)

Reference books
W.J. Banks *Applied Veterinary Histology* (Williams & Wilkins, 1986)
E.J. Field and R.J. Harrison *Anatomical Terms* (Heffer, 1968)
S. Sisson and A. Grossman *Anatomy of Domestic Animals* (Saunders, 1975)
*Nomina Anatomica Veterinaria* (International Committee on Veterinary Anatomical Nomenclature, Vienna, 1983)

**Biometry V112**
Mr Thomson

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 course.

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

Reference book

**Animal Husbandry V101**
Dr Miller

Students are required to undertake approximately sixteen weeks’ extra-mural training to gain experience in livestock husbandry. This is to be undertaken after commencing the veterinary course. The practical work is carried out on farms and stations.

A course of 46 lectures and 1 day weekly for ten weeks at the University Farms, Camden, where students are given training in animal husbandry. Practical work will be taken by all students, including repeat students, and will be examinable.

The lecture course includes: horses — their characteristics and management; cattle, sheep, pigs and poultry — the animal industries in Australia, management, production of meat, milk, wool and eggs; wool — wool and its qualities; cats, dogs and small animals — breeds and their management.

Reference books
J. A. Gardner et al. (eds) *Pig Production in Australia* 2nd edn (Butterworths, 1990)
C. W. Holmes and G.F. Wilson *Milk Production from Pasture* rev. edn (Butterworths, 1987)
P.J. Huntington and F. Cleland *Horse Sense: The Australian Guide to Horse Husbandry* (Agmedia, 1992)
D.M. McCurnin *Clinical Textbook for Veterinary Technicians* (W.B. Saunders Co., 1985)
R.L. Reid *A Manual of Australian Agriculture* 5th edn (Heinemann, 1990)
Pastoral Botany and Agronomy V116
Mr de Kantzow
This course 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 lecture course covers the agronomic and ecological principles of the production and utilisation of native and sown grassland communities. 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 course.

Reference books
G.M. Cunningham et al. Plants of Western New South Wales (N.S.W. Government Printer, 1981)
Flora of New South Wales Vols 1,2,3 and 4 (N.S.W. University Press, 1992)
Handbook of Economic Plants of Australia (CSIRO, 1993)
E.J. McBarron Medical and Veterinary Aspects of Plant Poisoning in N.S.W. (N.S.W. Agriculture, 1976)
W.T. Parsons and E.G. Cuthbertson Weeds of Australia (Inkata Press, 1992)
J.W. Wheeler et al. Temperate Pastures, Their Production, Use and Management (Australian Wool Corporation and CSIRO, 1987)

Second year courses
Veterinary Anatomy IIV203 (1995)
Prof. Bryden
The course consists of lectures and practical classes totalling 244 hours. It covers the anatomy of the horse, ox, sheep, pig, cat and domestic fowl. A course in embryology is presented in first semester. Aspects of comparative anatomy are presented at the end of second semester.

Textbooks
K.M. Dyce et al. Textbook of Veterinary Anatomy (Saunders, 1987)
D.M. Noden and A. de Lahunta The Embryology of Domestic Animals: Developmental Mechanisms and Malformations (Williams & Wilkins, 1985)

Reference books
A. de Lahunta and R.E. Habel Applied Veterinary Anatomy (Saunders, 1986)
R. Nickel et al. The Viscera of the Domestic Mammals (Paul Parey, Hamburg, 1973)
I.R. Rooney Biomechanics of Lameness in Horses (Williams & Wilkins, 1969)
A. Schummer et al. The Circulatory System, the Skin and the Cutaneous Organs of the Domestic Mammals (Paul Parey, Hamburg, 1981)
S. Sisson and A. Grossman Anatomy of Domestic Animals (Saunders, 1975)
D.H. Steven Comparative Placentation (Academic Press, 1975)

Veterinary Anatomy and Histology II (V207) (1996)
Prof. Bryden
This course 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 course consists of lectures and practical classes totalling 244 hours.

Textbooks
K.M. Dyce et al. Textbook of Veterinary Anatomy (Saunders, 1987)
D.M. Noden and A. de Lahunta The Embryology of Domestic Animals: Developmental Mechanisms and Malformations (Williams & Wilkins, 1985)

Reference books
A. de Lahunta and R.E. Habel Applied Veterinary Anatomy (Saunders, 1986)
R. Nickel et al. The Viscera of the Domestic Mammals (Paul Parey, Hamburg, 1973)
I.R. Rooney Biomechanics of Lameness in Horses (Williams & Wilkins, 1969)
This portion of the course in veterinary physiology comprises about 72 hours of lectures and 97 hours of practical work.

Text and reference books
A list of recommended text and reference books is provided in the departmental course handbook.

Animal Genetics V201
Assoc. Prof. Nicholas
A course of 45 lectures introducing those aspects of genetics relevant to veterinarians. The first section (Genetics and Animal Disease) covers biochemical disorders, 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.

Textbook

Reference books
D.S. Falconer *Introduction to Quantitative Genetics* (Longmans, 1989)
L.D. Van Vlecket *al. Genetics for the Animal Sciences* (Freeman, 1987)

Biochemistry V202
Assoc. Prof. Slaytor
The course consists of 78 lectures. The lectures in the first part of first semester cover the topics proteins, enzymes and molecular genetics in sufficient detail for the understanding of the intermediary metabolism lectures in the remainder of the year. The course provides background material for other subjects, particularly physiology, endocrinology and nutrition.

The laboratory work gives some manipulative skill in quantitative biochemistry and illustrates some of the techniques used in clinical pathology.

Textbook
or

Veterinary Pathology
The courses extend over the second, third, fourth and fifth years and embrace the following subjects:

- General Pathology
- Systemic Pathology
- Immunology
- Haematology
- Clinical Pathology
Veterinary Pathology V225
Assoc. Prof. Rothwell

In second year, General Pathology deals with causes of disease, morbid and reactive processes, inflammation, immunological reactions, regressive and progressive tissue changes, including the study of neoplastic growths. Practical work includes the examination of gross and microscopic changes in representative examples of these processes.

Textbooks
A.K. Abbasetal. Cellular and Molecular Immunology (Saunders, 1991)
I.M. Roitt Essential Immunology 7th edn (Blackwell, 1991)

Third year courses

Veterinary Physiology V317
Dr Heywood

Topics covered include ruminant digestion, the nervous system, reproduction, growth and development, animal behaviour and some specialised topics not covered in the second year course. In this part of the course greater emphasis is placed on the activity of the animal as a whole.

Practical instruction comprises some laboratory exercises, but a greater use is made of demonstrations, discussions and tutorials than in the second year course. Students spend considerable time on project topics that allow a greater understanding of particular areas. These have a high independent learning component.

This part of the course in veterinary physiology comprises about 53 hours of lectures and 93 hours of practical work.

Text and reference books
A list of recommended text and reference books is provided in the departmental course handbook.

Veterinary Pathology V315
Assoc. Prof. Rothwell

Systemic Pathology is an extension of General Pathology and applies general pathological principles 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 the performance of post-mortem examination of animals.

Textbooks
A.K. Abbasetal. Cellular and Molecular Immunology (Saunders, 1991)
I.M. Roitt Essential Immunology 7th edn (Blackwell, 1991)
R.G. Thomson Special Veterinary Pathology (B.S. Decker, 1988)

Veterinary Bacteriology and Mycology V302
Assoc. Prof. Daria Love

A course of 63 hours of lectures and 102 hours of practical work. Lectures outline the classification and general biological properties of bacteria and fungi. A systematic study of the principles of disease production by major veterinary pathogens is then presented.

Practical work includes the isolation, cultivation and identification of micro-organisms and examination of the tissues of animals affected by microbial diseases. 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.

Textbook
None recommended

Veterinary Virology V309
Dr Bailey

The course of 18 lectures presents the classification and general biological properties of viruses and outlines diseases they cause in animals. The lectures are reinforced and illustrated by practical work.

Textbook
Virology for Australian Veterinarians (Veterinary Science Postgraduate Committee, University of Queensland, 1992)

Veterinary Pharmacology and Toxicology V306
Dr Maddison

Assessment one 90 min exam/sem, class performance, assignments

A course of 56 hours of lectures and 6 hours of problem-based tutorials. In addition, 3 correlation sessions (3 hours each session) 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 lecture course covers basic pharmacological principles and clinical veterinary pharmacology. The interactive workshops address topics of particular relevance to veterinary pharmacology.

Textbooks

Study Aids

Reference books
G.C. Brander et al. Veterinary Applied Pharmacology and Therapeutics 5th edn (Bailliere Tindall, 1991)
B.S. Cooper (ed.) Antimicrobial Prescribing Guidelines for Veterinarians (Postgraduate Committee in Veterinary Science, University of Sydney, 1994)
S.L. Everist Poisonous Plants of Australia (Angus & Robertson, 1982)
Animal Nutrition V321
Dr Mercer

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

Textbook

Reference books
D. Cole Recent Developments in Pig Nutrition 2 (Nottingham U.P., 1993)
C. Fisher and K.N. Boorman Nutrient Requirements of Poultry and Nutritional Research (Butterworths, 1986)
National Academy of Sciences, Washington Nutrient Requirements of Domestic Animals (a series of pamphlets on individual animals)

Veterinary Medicine V323
Assoc. Prof. Watson

Classes Sem 2:3 lec/wk

A course of 36 lectures on veterinary medicine and diseases of organ systems of animals, concerned with clinical methods and techniques of examination of various organ systems. 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 are reinforced and illustrated with clinical material from the Veterinary Teaching Hospital.

Textbook

Reference books
E.A. Chandler et al. (eds) Canine Medicine and Therapeutics 3rd edn (Blackwell, 1992)
E.A. Chandler et al. (eds) Feline Medicine and Therapeutics 2nd edn (Blackwell, 1994)
A. de Lahunta Veterinary Neuroanatomy and Clinical Neurology 2nd edn (Saunders, 1983)
C.E. Greene (ed.) Infectious Diseases of the Dog and Cat (Saunders, 1990)
R.W. Kirk and J.D. Bonagura (eds) Current Veterinary Therapy XI (Saunders, 1992)

Veterinary Parasitology V314
Dr Collins

A study of the major parasitic diseases of the companion animals: dogs, cats, horses, cage birds and aquarium fish. The course 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, contributory tests and final practical and written examinations.

Teaching manual
G.H. Collins Veterinary Parasitology (latest edn)
Fourth year courses

Veterinary Parasitology V426
Dr Collins
A study of the economically important parasitic diseases of commercial animals: cattle, sheep, goats, pigs, poultry, bees and farmed fish. The course 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, contributory tests and final practical and written examinations.
Teaching manual
G.H. Collins Veterinary Parasitology (latest edn)

Veterinary Clinical Pathology V404
Assoc. Prof. Canfield
A course 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.
Reference books
E.H. Coles Veterinary Clinical Pathology 4th edn (Saunders, 1986)
J.R. Duncan and K.W. Prasse Veterinary Laboratory Medicine 2nd edn (Iowa State U.P., 1986)
N.C. Jain Schalm's Veterinary Haematology (Lea & Febiger, 1986)

Veterinary Medicine V405
Assoc. Prof. Watson
Classes Yr: 3 lec/wk
The course 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 first semester. The course is based on dogs and cats but references are made 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 both semesters.
Textbook
Reference books
As for third year Veterinary Medicine

Veterinary Surgery V407
Assoc. Prof. Bellenger
The course of 102 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, cutaneous and endocrine systems of the body. The special sense organs such as the eye and ear are dealt with separately.
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.
The course of 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.
Textbooks
G.S. Allan Radiology Symposium Proceedings No. 203 (Postgraduate Committee in Veterinary Science, University of Sydney, 1992)
W.O. Brinker et al. Handbook of Small Animal Orthopaedics and Fracture Treatment (Saunders, 1990)
L.W. Hall and K.W. Clarke Veterinary Anaesthesia (Bailliere Tindall, 1991)
C.D. Knechtel. Fundamental Techniques in Veterinary Surgery (Saunders, 1987)
D.L. Piermattei and R.G. Greeley An Atlas of Surgical Approaches to the Bones of the Dog and Cat (Saunders, 1979)
R.J. Rose and D.R. Hodgson Manual of Equine Practice (Saunders, 1993)
D. Slatter Textbook of Small Animal Surgery 2nd edn (Saunders, 1993)
D.E. Thrall Textbook of Veterinary Diagnostic Radiology (Saunders, 1993)
Reference books
R.S. Atkinson et al. A Synopsis of Anaesthesia (Wright, 1987)
J. Auer (ed.) Equine Surgery (Saunders, 1992)
J. Beech (ed.) Equine Respiratory Disorders (Lea & Febiger, 1991)
Veterinary ClinicsofNorth America Large Animal Anaesthesia (Saunders, 1981)

H. Wadsworth and A.P. Chanmugam Electrophysical Agents in Physiotherapy (Sciences Press, 1980)


W.G. Whitlock Canine Orthopaeedics (Lea & Febiger, 1990)

S. Withrow and E. McEwen Clinical Veterinary Oncology (Lippincott, 1989)

**Veterinary Anatomy III V413**
Dr McCarthy

This course consists of 24 hours of demonstration and practical classes. It covers the surface anatomy and applied anatomy of the horse and dog.

Reference books
A. de Lahunta and R.E. Habel Applied Veterinary Anatomy (Saunders, 1986)
D.W. Milne and A.S. Turner An Atlas of Surgical Approaches to the Bones of the Horse (Saunders, 1979)
J.R. Rooney Biomechanics of Lameness in Horses (Williams & Wilkins, 1969)

**Applied Reproduction and Obstetrics V422**
Assoc. Prof. Evans

A course 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 courses.

Reference books
Ib.J. Christiansen Reproduction in the Dog and Cat (Bailliere Tindall, 1984)
I. Gordon Controlled Breeding in Farm Animals (Pergamon Press, 1983)
E.S.E. Hafez Reproduction in Farm Animals 5th edn (Lea & Febiger, Philadelphia, 1987)
Fourth year courses

Animal Nutrition V421
Dr Mercer

A course 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.

Reference books
D.G. Church *Livestock Feeds and Feeding* 2nd edn (Church, 1984)

Animal Husbandry Practical Report
Dr Mercer

Students are required to undertake extramural practical work in animal husbandry to enable them to master animal handling and manipulative techniques and to introduce them to activities in the various animal industries and to practical management problems. Experience is gained with various classes of livestock including beef and dairy cattle, sheep, horses, pigs and poultry. This work is documented in a practical report which is submitted for assessment in the first week of semester one of the fourth year.

Fifth year courses

Veterinary Surgery V505
Assoc. Prof. Bellenger

In fifth year the surgery course consists of 14 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 period of three weeks’ 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.

Text and reference books

As for third and fourth year Veterinary Surgery with the additional following reference books

N.A. White (ed.) *The Equine Acute Abdomen* (Lea & Febiger, 1990)

Bird Health and Production V502
Dr Cross

This course consists of 35 lectures and 40 hours of practical classes. The aim of the course 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, rattle and raptor medicine and surgery. To complete the course 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.

Reference books

S. Leeson and J.D. Summers *Commercial Poultry Nutrition* (University Books, Guelph, Ontario, 1991)
D. Sainsbury *Poultry Health and Management* 3rd edn (Blackwell, 1992)

Standing Committee on Agriculture *Feeding Standards for Australian Livestock, Poultry* (CSIRO, 1987)

Horse Medicine V503
Assoc. Prof. Hodgson

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.

Textbooks

D.C. Blood *et al.* *Veterinary Medicine* 8th edn (Bailliere Tindall, 1994)
Pig Health and Production V526
Assoc. Prof. Love
Classes Sem 2: 33 lec, 8 prac
Assessment 2hr exam at end Sem 2

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 course is managing endemic disease and preventive medicine. Welfare of intensively housed pigs is also given consideration.

Reference books
J. Gardner et al. Pig Production in Australia (Butterworths, 1990)
Standing Committee on Agriculture Feeding Standards for Australian Livestock, Pigs (CSIRO, 1987)
C. Whittemore The Science and Practice of Pig Production (Longman Scientific & Technical, 1993)

Cattle Health and Production V507

The course in cattle health and production is an integration of material presented by the Departments of Animal Health and Animal Science. The aim of the course is to deal with those aspects of cattle medicine and production which are required to enable new graduates to participate effectively in all forms of cattle practice. It incorporates cattle medicine, including herd health, cattle production and reproduction including artificial breeding. The course will be examined in two 2-hour papers at the end of the second semester.

Cattle Medicine
Dr English

The cattle medicine course consists of 33 lectures and 40 hours of practical classes, with additional exposure to case material and herd health programs during clinical rotations in the Rural Veterinary Centre. The lecture course covers the medicine of systems, generalised and metabolic diseases, and deficiency states. A major aim of the course is to develop an understanding of the balance between consideration of the individual animal and the herd, with an appreciation of the close linkage between medicine and production.

Textbooks
Beef Cattle Production Proceedings No. 68 (Postgraduate Committee in Veterinary Science, University of Sydney, 1984)
Dairy Cattle Production Proceedings No. 78 (Postgraduate Committee in Veterinary Science, University of Sydney, 1985)
Dairy Medicine and Production Proceedings No. 161 (Postgraduate Committee in Veterinary Science, University of Sydney, 1991)
O.M. Radostits et al. Veterinary Medicine 8th edn (Bailliere Tindall, 1994)
O.M. Radostits and D.C. Blood Herd Health (W.B. Saunders, 1985)

Cattle Production
Assoc. Prof. Kellaway

The course consists of 15 hours of lectures and three 3-hour practical classes. It covers the nutrition and management of beef cattle and dairy cattle in tropical, sub-tropical and temperate environments. Methods of pasture improvement, nutrient content of native and improved pastures, and strategies of supplementary feeding are covered, as are intensive systems and live animal exports. Production systems are simulated using computer models.

Reference books
P.C. Garnsworthy (ed.) Nutrition and Lactation in the Dairy Cow (Butterworths, 1988)
W. Holmes and G.F. Wilson Milk Production from Pastures (Butterworths, 1984)
I. Lean Nutrition of Dairy Cattle (Postgraduate Foundation in Veterinary Science, University of Sydney, 1987)
J.H.B. Roy The Calf 5th edn (Butterworths, 1990)

Standing Committee on Agriculture Feeding Standards for Australian Livestock, Ruminants (CSIRO, 1990)

Cattle Reproduction
Dr Lean

The course consists of 12 lectures and three 3-hour practical classes. The objectives 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 reproductive management programs to cattle clients.

Reference books
I. Gordon Controlled Breeding in Farm Animals (Pergamon Press, 1983)
D.A. Morrow Current Therapy in Theriogenology 2 (W.B. Saunders, 1986)
S.J. Roberts Veterinary Obstetrics and Genital Diseases (Theriogenology) (pub. by author, Woodstock, Vermont, 1986)

**Milk Quality**
Dr Gooden

This component examines the physiology of lactation and the importance of milk quality in 2 lectures. Aspects of anatomy of the mammary gland, milk letdown, synthesis of milk fat, protein and lactose are described, with emphasis on milk quality. Factors affecting milk quality are discussed and include mastitis, colostrum, sediment, protein and seasonal factors. Some of the methods of measuring milk quality are outlined.

Textbooks
T.B. Mephan (ed.) Biochemistry of Lactation (Elsevier, Amsterdam and New York, 1983)

**Special Medicine V508**
Dr Dixon

There are two parts to this course which comprises lectures, tutorials and assignments.

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

2. Exotic diseases: diseases which present 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.

Reference books
W.T. Parsons and E.G. Cuthbertson Noxious Weeds of Australia (Inkata Press, Melbourne, 1992)
Veterinary Clinical Toxicology (Postgraduate Committee in Veterinary Science, University of Sydney, 1987)

**Sheep Health and Production V519**
Mr Abbott

*Classes* Sem 1: 5 lec/week for 8 wks. 56 hr prac in 2 blocks of 28 hr/fn
*Assessment* one 3hr exam at end of Sem 1, assignments in prac.

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

Reference books
D.C. Blood and O.M. Radostits Veterinary Medicine (Bailliere Tindall, 1994)
A.D. Donald et al. (eds) The Epidemiology and Control of Gastrointestinal Parasites of Sheep in Australia (CSIRO, Melbourne, 1978)
G. Evans and W.M.C. Maxwell Salamon's Artificial Insemination of Sheep and Goats (Butterworths, 1987)
I. Gordon Controlled Breeding in Farm Animals (Pergamon Press, 1983)
F.H.W. Morley (ed.) Grazing Animals (Elsevier Scientific, Amsterdam, 1983)
CM. Oldham et al. (eds) Reproductive Physiology of Merino Sheep: Concepts and Consequences (School of Agriculture, Animal Science, University of Western Australia, 1990)
Sheep Proceedings No. 58 (Postgraduate Committee in Veterinary Science, University of Sydney, 1981)
Sheep Production and Preventive Medicine Proceedings No. 67 (Postgraduate Committee in Veterinary Science, University of Sydney, 1983)
Sheep Health and Production Proceedings No. 110 (Postgraduate Committee in Veterinary Science, University of Sydney, 1988)
Sheep Medicine Proceedings No. 141 (Postgraduate Committee in Veterinary Science, University of Sydney, 1990)
Veterinary Public Health V504
Prof. Egerton

There are four components of this course—principles of epidemiology, food quality and hygiene, the zoonoses and the legal and ethical bases of veterinary work. The objective of the course is to make graduates 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 course.

There are 63 hours of lectures and 27 hours of practical or tutorial work programmed for Veterinary Public Health.

Textbooks
Epidemiological Skills in Animal Health Proceedings No. 143
(Postgraduate Committee in Veterinary Science, The University of Sydney, 1990)
Veterinary Surgeons Act, 1987

Reference books
Acts and Regulations (N.S.W. unless stated):
Animal Research Act 1985
Cattle Compensation Act
Cattle Slaughtering Diseased Animals and Meat Act
Commonwealth Quarantine Act 1908
Dog Act
Meat Industry Act
Pastures Protection Act
Poisons Act
Prevention of Cruelty to Animals Act
Registration of Stock Brands Act
Stock (Artificial Insemination) Act
Stock Diseases Act
Stock Foods and Medicine Act
Swine Branding Act


W.J. Stevenson and K.L. Hughes Synopsis of Zoonoses in Australia 2nd edn (Commonwealth Department of Health AGPS, 1988)
M. Thrusfield Veterinary Epidemiology (Butterworths, London, 1985)

Sydney University Veterinary Teaching Hospital
Dr Church, Superintendent

Students will attend the Veterinary Teaching Hospital in both semesters 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, horses 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. 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.

Practical work requirement
Students are required to do practical work in livestock husbandry as described in the Animal Husbandry course.

During the vacation periods rostered after semester 2, fourth year, students will 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 practical work which will be arranged by the Faculty Office.

Essay V517
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 semester 2 of fourth year. Essays must be typewritten and submitted by the Friday of the first week of second semester in fifth year. However, earlier submission is recommended. Guidelines for the essay are available from the Faculty Office.
**General University information**

This chapter of the handbook contains information specific to the Faculty of Veterinary Science as well as some important general information. For further information about examinations, the organisation of the University, assistance for disabled students, child care facilities, housing, health, counselling, financial assistance, careers advice and a range of other matters, see the *University of Sydney Diary*, available free from the Student Centre or from University of Sydney Union outlets.

**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
- 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.

**Welcome to first year students**
In orientation week the Dean and members of the Faculty in conjunction with senior students welcome the first year students enrolled in the Faculty. Advice and information on Faculty matters are included in the addresses of welcome, and the new students are conducted on a tour of the Veterinary Science precinct.

**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**
Cocks in the J.D. Stewart Building 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**

**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 in the Main Quadrangle 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 Education 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) 379 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 Education 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) 351 4079 or 351 4161.

Advisers to international students
The International Education 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.

Registration
All students, both new and re-enrolling, must register at the Faculty Office at the time of enrolling. This office is open from 9.00 am to 5.00 pm daily during the enrolment period.

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

Students re-enrolling after absence
If you were previously enrolled (even if you discontinued all courses 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 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.

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 courses shall not be entitled to re-enrol for that degree unless the Faculty, College Board or Board of Studies concerned has granted prior permission to re-enrol or the person is reselected for admission to candidature for that degree.
3. Subject to paragraphs (i) and (ii) of section 1, no candidate for a degree of Bachelor may discontinue enrolment in a course or year after the end of lectures in that course or year.
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 First Semester courses
5. A candidate for a degree of Bachelor who
discontinues enrolment in a full-year or First Semester course on or before 30 March in that year shall be recorded as having withdrawn from that course.

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

All Faculties, Colleges and Boards of Studies except the Faculty of Engineering
Discontinuation
7. (1) A discontinuation of enrolment in a course shall be recorded as 'Discontinued with Permission' when the discontinuation occurs after the relevant withdrawal period and
(a) on or before the Friday of the first week of Second Semester for a full-year course, or
(b) up to the last day of the seventh week of teaching in a one semester course.
(2) A discontinuation of enrolment in a course shall be recorded as 'Discontinued' when the discontinuation occurs after the end of classes in that course, unless the degree or diploma regulations permit otherwise.

(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 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 degree or diploma shall not be entitled to re-enrol in that degree or diploma unless the candidate is readmitted to candidature for that degree or diploma.

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

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

Discontinuation
7. A candidate for a degree or diploma who discontinues enrolment in a course after the relevant 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 or degree before the end of the fifth week of enrolment, shall be recorded as having withdrawn from that course or degree.

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

Restriction upon re-enrolment
There are certain circumstances in which you could be asked to show good cause why you should be permitted to repeat any previously attempted study. Liability for exclusion from re-enrolment is determined by academic attainment during the immediate past one or two academic years (depending upon the faculty, college or board of studies concerned). The resolutions of the Senate restricting re-enrolment may be found in the University’s 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:

<table>
<thead>
<tr>
<th>Period</th>
<th>when held</th>
<th>approximate duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>First semester</td>
<td>June</td>
<td>2-3 weeks</td>
</tr>
<tr>
<td>Second semester</td>
<td>November</td>
<td>3-4 weeks</td>
</tr>
<tr>
<td>Supplementary</td>
<td>January/February</td>
<td>2 weeks</td>
</tr>
</tbody>
</table>

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 the first 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 examinations, 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 in the Main Quadrangle, 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 in the Main Quadrangle. 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 course. 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 subject taken will be allotted one of the following grades at the annual examinations:

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

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 subjects. 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 subjects. This policy is printed below.

"The following proportions of merit grades to be awarded in each subject 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 general arts 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 subject.

<table>
<thead>
<tr>
<th>Course</th>
<th>High Distinction</th>
<th>Distinction</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>First year</td>
<td>3</td>
<td>14</td>
<td>42</td>
</tr>
<tr>
<td>Second year</td>
<td>3</td>
<td>16</td>
<td>46</td>
</tr>
<tr>
<td>Third year</td>
<td>4</td>
<td>18</td>
<td>50</td>
</tr>
</tbody>
</table>

The proportions of merit grades may vary from course to course and from year to year, reflecting
Illness or misadventure

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:

(a) be submitted and signed by your own medical practitioner and indicate the dates on which you sought attention;

(b) certify unambiguously a specified illness or medical disability for a definite period;

(c) 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 course, 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.

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 Thursday between 8.45 am and 7.00 pm, on Friday between 8.45 am and 6.00 pm and on Saturday between 10.00 am and 5.00 pm. Vacations 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.

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 abroad 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).

Verninary School Common Rooms

The object of the Veterinary School 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 for members and their guests 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.

Roundhouse

Roundhouse, the Faculty of Veterinary Science Newsletter, is named after the historic building central to the veterinary buildings on the Sydney campus. It was started in November 1985 and is published two or three times each year. Copies are distributed to all members of staff and to students. The aims of the newsletter are to keep the Faculty informed of scientific and social activities and to provide a forum for comment and discussion. Roundhouse also contains articles on the history of the Faculty and the achievements and careers of its graduates. Contributions are welcomed from both staff and students; copy should be sent to Dr Henry Collins, Department of Veterinary Pathology.
Scholarships and prizes: undergraduate
The following is a summary only. For further information contact the Scholarships Office.

<table>
<thead>
<tr>
<th>Scholarship or prize</th>
<th>Value</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Matriculation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alexander Donald</td>
<td>250</td>
<td>Student from Sydney Grammar School</td>
</tr>
<tr>
<td>Martin McLlrath</td>
<td>500</td>
<td>Male student—preference to sons of ex-servicemen</td>
</tr>
<tr>
<td><strong>Undergraduate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Australian College of Veterinary Scientists (Chapter of Veterinary Pharmacology)</td>
<td>plaque</td>
<td>Proficiency in Veterinary Pharmacology and Toxicology</td>
</tr>
<tr>
<td>Australian Small Animal Veterinary Association Prize</td>
<td>300 + medal + 2 yrs membership</td>
<td>Proficiency in small animal medicine and surgery</td>
</tr>
<tr>
<td>Australian Society for Parasitology</td>
<td>200</td>
<td>Proficiency in 4th year Veterinary Parasitology</td>
</tr>
<tr>
<td>Auxiliary to the Australian Veterinary Association (N.S.W. Division) Prize</td>
<td>80</td>
<td>Proficiency in Biochemistry and 1st and 2nd year Veterinary Physiology</td>
</tr>
<tr>
<td>Auxiliary to the Australian Veterinary Association (N.S.W. Division) Prize in Veterinary Clinical Pathology</td>
<td>50</td>
<td>Proficiency in 4th year Veterinary Clinical Pathology</td>
</tr>
<tr>
<td>Auxiliary to the Australian Veterinary Association (N.S.W. Division) Prize for Third Year students</td>
<td>50</td>
<td>Greatest improvement in 3rd year</td>
</tr>
<tr>
<td>Auxiliary to the Australian Veterinary Association (N.S.W. Division) Prize in Animal Genetics</td>
<td>50</td>
<td>Proficiency in Animal Genetics</td>
</tr>
<tr>
<td>Baker &amp; Ridley Memorial</td>
<td>150</td>
<td>Proficiency in 4th year Animal Husbandry Practical Report</td>
</tr>
<tr>
<td>H.G. Belschner</td>
<td>100</td>
<td>Proficiency in 1st year in sheep and wool</td>
</tr>
<tr>
<td>Bloodhorse Breeders' Association of Australia (N.S.W. Division)</td>
<td>100</td>
<td>Proficiency in 5th year in Animal Husbandry, Veterinary Medicine and Veterinary Surgery</td>
</tr>
<tr>
<td>Rex Butterfield Prize in Veterinary Anatomy</td>
<td>50</td>
<td>Proficiency in 2nd year in Veterinary Anatomy</td>
</tr>
<tr>
<td>Carnation</td>
<td>25</td>
<td>Proficiency in 3rd year in principles of nutrition</td>
</tr>
<tr>
<td>H.R. Carne Prize and Medal</td>
<td>100 +, medal</td>
<td>Proficiency in the examinations for the degree of Bachelor of Science (Veterinary)</td>
</tr>
<tr>
<td>Commonwealth Bureau of Animal Health</td>
<td>40</td>
<td>Proficiency in 4th year in Veterinary Surgery</td>
</tr>
<tr>
<td>Cooper Australia Ltd.</td>
<td>225</td>
<td>Proficiency in 4th year in Veterinary Parasitology</td>
</tr>
<tr>
<td>Coopers Prize in Cattle Medicine</td>
<td>100 + medal</td>
<td>Proficiency in final year in the area of cattle medicine</td>
</tr>
<tr>
<td>Farr Memorial</td>
<td>50</td>
<td>Proficiency in 1st year in horse husbandry</td>
</tr>
<tr>
<td>N.P.H. Graham</td>
<td>200</td>
<td>Proficiency in 5th year in the sheep component of Veterinary Medicine</td>
</tr>
<tr>
<td>John Gurner and Frederick Ebsworth</td>
<td>350 each (3)</td>
<td>Proficiency in 1st year in Chemistry, in Physics and in Biology</td>
</tr>
<tr>
<td>K.G. Johnston</td>
<td>60</td>
<td>Proficiency in Veterinary Clinical Pathology</td>
</tr>
<tr>
<td>Dr J. Lamond Memorial</td>
<td>Bursaries</td>
<td>Financial need and academic merit</td>
</tr>
<tr>
<td>Lonsdale</td>
<td>400, 200</td>
<td>Proficiency in 4th year in clinical studies</td>
</tr>
<tr>
<td>William James McHugh</td>
<td>300</td>
<td>Case report in equine medicine or surgery in 4th or 5th year</td>
</tr>
<tr>
<td>Martin McLlrath</td>
<td>490</td>
<td>Proficiency by male students in all years—preference to sons of ex-servicemen</td>
</tr>
</tbody>
</table>
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; and small tutorials are arranged for students who are having difficulties. Workshops to help with mathematics study skills are held near the beginning of the year, and introductory and bridging courses are organised during the summer and throughout the year.

Location

The Centre is on the ground floor of the Transient Building in Fisher Road (next door to the Co-op Bookshop). Any student seeking assistance should call at the Centre, or phone 351 4061.

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 t trencher cap.

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<table>
<thead>
<tr>
<th>Scholarship or prize</th>
<th>Value $</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metro Farms Pty. Ltd. Prize in Pig Medicine</td>
<td>50</td>
<td>Proficiency in final year in pig medicine</td>
</tr>
<tr>
<td>Jack Moran</td>
<td>20</td>
<td>Proficiency in meat inspection in Veterinary Public Health</td>
</tr>
<tr>
<td>H.C. Moulder</td>
<td>150</td>
<td>Proficiency in 3rd year in Veterinary Microbiology</td>
</tr>
<tr>
<td>Virginia Osborne</td>
<td>250</td>
<td>Proficiency in 2nd year in anatomy of the horse</td>
</tr>
<tr>
<td>W.R. Sidman Memorial Prize—awarded by N.S.W. Division of Australian Veterinary Association</td>
<td>3 yrs membership of Australian Veterinary Assoc.</td>
<td>Proficiency in 4th year in clinical studies</td>
</tr>
<tr>
<td>Beri Sinkovic Poultry Medicine Prize</td>
<td>200</td>
<td>Proficiency in 5th year in poultry medicine</td>
</tr>
<tr>
<td>Stewart</td>
<td>180</td>
<td>Proficiency in 4th year in veterinary medicine</td>
</tr>
<tr>
<td>J.D. Stewart</td>
<td>60</td>
<td>Student essay</td>
</tr>
<tr>
<td>S.T.D. Symons</td>
<td>up to 500</td>
<td>Proficiency in final year in clinical subjects</td>
</tr>
<tr>
<td>Uncle Ben’s of Australia Pty Ltd</td>
<td>50</td>
<td>Proficiency in 4th year in small animal medicine</td>
</tr>
<tr>
<td>WIRES Wildlife Prize</td>
<td>250</td>
<td>Best final year essay relating to Australian native wild life</td>
</tr>
</tbody>
</table>
6 Postgraduate study

Higher degrees and postgraduate diplomas

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 Calendar. 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 part only 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 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 courses 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, Veterinary Anaesthesia, Avian Medicine, and Wildlife Medicine and Husbandry. Graduates in veterinary science from other universities may also, with the approval of the Faculty and the Academic Board, be admitted as candidates. Except for candidature in the subject areas of Avian Medicine and Veterinary Radiology, 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 for this degree shall, for a period of not less than twelve months, follow as a full-time student such courses 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 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 shall pass 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 examinations in each of the following:
- 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 anaesthesia

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 Medicine shall pass 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 six months' 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 six months 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 six months at an institution as described in section (a); and

(c) pass examinations in each of 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 shall complete the requirements for the degree not earlier than one year after the commencement of candidature and, except with the permission of the Faculty, not later than two years after the commencement of candidature.

The Faculty may—

(a) on the recommendation of the head of the department concerned, call upon any candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards completion of the degree; and

(b) where, in the opinion of the Faculty, the candidate does not show good cause, terminate the candidature.

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

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.

Postgraduate diploma

The Faculty awards the following postgraduate diploma

- DipVetClinStud Diploma in Veterinary Clinical Studies
Scholarships: postgraduate
The following is a summary only. For further information contact the Scholarships Office.

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Value</th>
<th>Closing date</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Restricted to Veterinary Science postgraduates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lionel Lonsdale Clinical Fellowships</td>
<td>16 500 Jnr</td>
<td>As advertised</td>
<td>For research at Sydney Veterinary Teaching Hospital and Clinic in diseases of domestic animals</td>
</tr>
<tr>
<td></td>
<td>22 500 Snr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F.H. Loxton Postgraduate Studentships</td>
<td>equivalent to APA</td>
<td>15 October</td>
<td>Male graduates of any university for research in veterinary science</td>
</tr>
<tr>
<td>Sara and Anne Payten Canine Cancer Research Fund</td>
<td>As recommended Head of Dept of Vet.Clin.Sciences</td>
<td>As advertised</td>
<td>Postgraduate study and research</td>
</tr>
<tr>
<td>Jean Walker Trust Fellowships</td>
<td>equivalent to APA</td>
<td>As advertised</td>
<td>Postgraduate study and research</td>
</tr>
<tr>
<td>Jean Walker Trust Supplementary Fellowships</td>
<td>maximum 5000</td>
<td>As advertised</td>
<td>Postgraduate study and research</td>
</tr>
<tr>
<td>James Ramage Wright Research Scholarships</td>
<td>500</td>
<td>As advertised</td>
<td>Postgraduate study and research into the problems of animal production</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Other awards open to Veterinary Science postgraduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Tenable at the University of Sydney</td>
</tr>
<tr>
<td>Australian Postgraduate Awards (APA)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>(b) Travelling scholarships</td>
</tr>
<tr>
<td>Harriett Beard Scholarship</td>
</tr>
<tr>
<td>Boulton Postgraduate Scholarship</td>
</tr>
<tr>
<td>C.G. Heydon Travelling Fellowship</td>
</tr>
<tr>
<td>William and Catherine Mellrath Scholarship</td>
</tr>
<tr>
<td>J.B. Watt Travelling Scholarship</td>
</tr>
</tbody>
</table>
### Scholarship

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Value</th>
<th>Closing date</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eleanor Sophia Wood Travelling Fellowships</td>
<td>35 000</td>
<td>November</td>
<td>qualification for the first degree appropriate to the proposed course of study overseas</td>
</tr>
<tr>
<td>Eleanor Sophia Wood Postgraduate Research</td>
<td>9000</td>
<td>November</td>
<td>Postgraduate study or research overseas</td>
</tr>
<tr>
<td>Research Travelling Scholarship</td>
<td></td>
<td></td>
<td>Postgraduate study or research overseas within four years after qualification for the first degree appropriate to the proposed course of study overseas</td>
</tr>
</tbody>
</table>

(c) Grants-in-aid

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Value</th>
<th>Closing date</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sir Ian Clunies Ross Scholarship</td>
<td>up to 500</td>
<td>31 May</td>
<td>Postgraduate candidature related to research in the wool industry</td>
</tr>
<tr>
<td>N.P.H. Graham Scholarship</td>
<td>up to 500</td>
<td>31 May</td>
<td>Postgraduate candidature related to research in sheep medicine</td>
</tr>
<tr>
<td>Goldia and Susie Lesue Scholarship</td>
<td>up to 2500</td>
<td>31 May</td>
<td>Postgraduate candidature in the Department of Veterinary Clinical Sciences</td>
</tr>
<tr>
<td>Neil and Allie Lesue Scholarship</td>
<td>up to 2500</td>
<td>31 May</td>
<td>Postgraduate candidature in the Department of Veterinary Clinical Sciences</td>
</tr>
<tr>
<td>Eric Horatio Maclean Scholarships</td>
<td>up to 1000</td>
<td>31 May</td>
<td>Postgraduate candidature related to research in the Stock and Meat Industries</td>
</tr>
<tr>
<td>Stock and Meat Industries Grant-in-Aid</td>
<td>up to $1250</td>
<td>31 May</td>
<td>Postgraduate candidature in research related to the Stock and Meat Industries</td>
</tr>
</tbody>
</table>
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 Animal Health. 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 Animal Health. It is a rural veterinary practice, providing services to the district. As well as teaching undergraduate students and postgraduates in clinical subjects, the Department of Animal Health is responsible for the management of the J.B. Pye Farm where 1000 sheep are kept for teaching and research. 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 in the same area.

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

The University farms as a whole carry more than 400 milking cows and, with beef cattle and replacement stock, a total of more than 1200 cattle. They also carry about 2000 sheep, 30 horses, 80 deer, 2000 hens, 20 goats and 60 pigs. Almost all this stock is used in one way or another for teaching or research purposes, but in addition it produces a commercial income that defrays the basic costs associated with holding the farms and provides some funds for farm development, research and teaching.

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

The Corstorphine Centre provides a base for a student accommodation unit, Nepean Hall. This gives students easy access to lectures and practical classes conducted by various departments of the faculties at Camden. Corstorphine is also the site of the Departments of Animal Health, 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 cattle facilities for the Departments of Animal Health 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 Animal Health, 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 west of Marulan known as Arthursleigh came to the University as part of the Eric Holt bequest. It consists of about 5300 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)—(046) 55 2300
Rural Veterinary Centre—(046) 55 2000
Students—(046) 55 0278, 55 0281, 55 0282, 55 0283, 55 0284

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 $150.00 per week in 1995.

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, 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.

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 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 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 Animal Health.

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 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, Camden 2570; telephone (046) 55 2300.
Departments of Animal Health and Animal Science, 425 Werombi Road (Private Mail Bag 3), Camden 2570.
Department of Animal Health: telephone (046) 55 2301, fax (046) 55 2931.
Department of Animal Science: telephone (046) 55 2309, fax (046) 55 1331.
Rural Veterinary Centre, 410 Werombi Road, Camden 2570; telephone (046) 55 2000, fax (046) 55 1212.
Nepean Hall, 345 Werombi Road, Camden 2570; telephone (046) 55 2300.
Dog and Cat Facility, 405 Werombi Road, Camden 2570; telephone (046) 55 2178.
Horse Unit, Cobbitty Road, Cobbitty 2570; telephone (046) 51 2283.
John Bruce Pye Farm, Greendale Road, Bringelly 2171; telephone (047) 74 8212.
Lansdowne Farm, Cobbitty Road, Camden 2570; telephone (046) 51 2328.
May Farm, May Farm Road, Mt Hunter, Camden 2570; telephone (046) 54 5239.
McGarvie Smith Animal Husbandry Farm, Elizabeth Drive, Badgery's Creek, 2171; telephone (047) 74 8184.
Plant Breeding Institute, Cobbitty Road, Cobbitty 2570; telephone (046) 51 2600, fax (046) 51 2578.
Wolverton Dairy Farm, Greendale Road, Bringelly 2171; telephone (047) 74 8013.
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, commissioned reviews and time-out seminars for veterinarians who have been away from clinical practice. The affairs of the Foundation are controlled by a nominated Council, which is 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 promote veterinary research at the University of Sydney; however, its prime objective in the immediate future is to raise funds for the construction of a new building to house the Department of Veterinary Pathology.

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