This handbook should be read in conjunction with the Students' Information Booklet, issued free to all students on enrolment or re-enrolment.

BOOKS

This year lists of essential preliminary reading, prescribed texts and important reference works for the various subjects are located in a separate BOOKS section near the end of this handbook.

In exceptional circumstances the Council is empowered to suspend subjects and to vary the syllabus of a subject. Details of any such alteration will be available from the faculty office and will be announced on departmental notice-boards.
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as at 24 October, 1978

Dean, Professor K. V. F. JUBB
Assistant Registrar, JENNIFER M. BECK
FACULTY OF VETERINARY SCIENCE

Dean: PROFESSOR JUBB
THE VICE-CHANCELLOR

Council Member:
MR D. S. WISHART

The Professors, Associate Professors, Readers and Senior Lecturers in the School of Veterinary Science, and Chairman of the Departments of Chemistry, Physics, Botany and Zoology:

MR J. H. ARUNDEL
PROFESSOR BLOOD
DR D. M. CALDER
PROFESSOR CAMPBELL
MR. B. A. CHRISTIE
DR D. B. GALLOWAY
DR C. C. GAY
DR K. L. HUGHES
DR A. G. JABARA
PROFESSOR JUBB
MR T. A. MASON
PROFESSOR McKELLAR
DR J. G. McLEAN
DR T. A. O'DONNELL
DR J. D. O'SHEA
DR W. P. C. RICHARDS
DR M. D. RICKARD
DR V. SLOSS
DR G. A. STEWART
DR M. J. STUDDERT
DR V. P. STUDDERT
DR D. A. TITCHEN
DR J. W. WATSON
DR R. J. H. WELLS
DR J. S. WILKINSON

Members of University Staff nominated annually by Faculty (8):
DR R. G. BEILHARZ
PROFESSOR RAMM
PROFESSOR STOREY
PROFESSOR TRIBE
DR J. H. WILSON

Representatives of extra-mural livestock industry and veterinary professional interests nominated annually by Faculty (5):
MR L. J. FULTON
MR C. KELLY
MR R. P. KNIGHT
MR W. J. R. WILSON

Dean of the Faculty of Agriculture and Forestry

PROFESSOR TULLOH

Nominated annually by the Minister of Agriculture (3):
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DR D. E. HORE
MR B. H. RUSHFORD

Appointed Triennially by Council on Nomination of Faculty (5):
DR E. FRENCH
MR J. R. GANNON
MR P. F. LEWIS
MR W. A. SNOWDON
MR A. K. SUTHERLAND

Representative of the Graduate Committee:

DR G. G. DE PURY

Other members appointed by Council:

DR P. T. DURFEE
MR K. E. HARRIGAN
MR R. B. LAVELLE
DR CHEE SEONG LEE
DR F. W. H. MORLEY
MR W. T. REYNOLDS
MR V. C. SPIERS
DR N. D. SULLIVAN
DR K. G. WHITHEAR
MR P. J. WRIGHT

Student Members:

MR B. W. PARRY (Postgraduate)
MISS T. S. REVELL (Undergraduate)

MR B. ROBERTSON
TEACHING AND RESEARCH STAFF
School of Veterinary Science

Department of Veterinary Clinical Sciences

Professor of Veterinary Medicine and Chairman of Department
DOUGLAS CHARLES BLOOD, BVSc Syd. MVSc

Senior Lecturers in Veterinary Medicine
CLIVE COLLINS GAY, MVSc DVM Tor. MVSc
*VIRGINIA PERRYMAN STUDDERT, BSc DVM Calif.

Senior Lecturers in Veterinary Surgery
BRUCE ANDREW CHRISTIE, BVSc Syd. MVSc
THOMAS ALFRED MASON, BVSc Brist. MVSc MRCVS MACVSc

Senior Lecturer in Animal Reproduction
DAVID BRUCE GALLOWAY, BVSc Syd. VMD Stockholm MVSc FRCVS

Senior Lecturer in Veterinary Obstetrics
VALENTINS SLOSS, DrVetMed Giessen MVSc

Lecturers in Veterinary Surgery
WILLIAM THOMAS REYNOLDS, BVSc
VICTOR CECIL SPEIRS, BVSc MVSc

Lecturer in Veterinary Radiology
ROGER BERNARD LAVELLE, MA Ve!MB Cantab. MRCVS DVR

Lecturer in Animal Reproduction
PATRICK JOHN WRIGHT, BVSc Syd. MVSc

Senior Research Fellow
FREDERICK WILLIAM HENRY MORLEY, BVSc Syd. PhD Iowa HDA FACVSc
FASAP

Research Fellow
TEODOR STELMASIAK, DVM Warsaw PhD Olsztyn

Tutors
PAULINE BRIGHTLING, BAnimSc, BVSc
ROBERT NEIL HAYWOOD, BVSc Massey
STEPHEN CHARLES SKIPPER, BVSc Massey

Veterinary Hospital

Registrars
RAYMOND JOSEPH HORSEY, BVSc
HAMISH ROBERTSON, BSc BVSc Q’ld.

Internes
THERESE CAMPBELL, BVSc Syd.
IAN HAINES DOUGLAS, BVMS Edin.
JOHN VAN VEENENDAAL, BVSc
ROBERT HAMILTON WRIGLEY, BVSc Syd.

Department of Veterinary Paraclinical Sciences

Chairman of Department and Reader in Veterinary Parasitology
JOHN HENRY ARUNDEL, BVSc Syd. MVSc

Professor of Veterinary Pathology
KENNETH VINCENT FINLAYSON JUBB, BVSc Syd. MSc PhD. Corn. MVSc
FACVSc

Senior Lecturers in Veterinary Pathology
WILLIAM PETER CLIFFORD RICHARDS, BSc BVSc Syd. MVSc Tor. PhD Calif.
RONALD JAMES HERBERT WELLS, BVSc Syd. PhD Cantab. MVSc HDA
JOHN SYDNEY WILKINSON, BSc (VetSc) PhD Lond. MVSc MRCVS
Lecturers in Veterinary Pathology
KARL EDWARD HARRIGAN, BVSc
NEIL DERMOT SULLIVAN, MVSc Q‘ld. PhD
Senior Lecturer in Pathology
ANNE GILMOUR JABARA, MSc PhD
Reader in Veterinary Microbiology
MICHAEL JUSTIN STUDDERT, BVSc Syd. MVSc Tor. PhD Calif.
Senior Lecturer in Veterinary Microbiology
Lecturer in Veterinary Microbiology
KEVIN GEORGE WHITHEAR BVSc Syd. PhD Monash HDA
Senior Lecturer in Veterinary Parasitology
MICHAEL DESMOND RICKARD, BVSc PhD Q‘ld.

Department of Veterinary Preclinical Sciences
Chairman of Department and Reader in Veterinary Anatomy
JAMES WILLIAM WATSON, BVSc PhD Q‘ld. MVSc
Professor of Veterinary Physiology
VACANT
Reader in Veterinary Physiology
DONALD ALEXANDER TITCHEN, BVSc Syd. MA PhD Cantab. MVSc
Reader in Veterinary Histology
JEREMY DAVID O‘SHEA, BVetMed PhD Lond. MVSc
Senior Lecturer in Veterinary Pharmacology
GORDON ANTHONY STEWART, BVSc Syd. MVSc Tor. & Melb.
Senior Lecturer in Veterinary Biochemistry
JOHN GRIFFITHS McLEAN, BVSc Syd. PhD HDA
Lecturer in Veterinary Anatomy
CHEE SEONG LEE, BVSc Taiwan MVSc Q‘ld. PhD Syd.
Senior Tutor in Veterinary Anatomy
JOHN PATTERSON, BSc Q‘ld.
Senior Tutor in Veterinary Physiology
RAYMOND JOSEPH RODGERS, BAgSc
Tutor in Veterinary Biochemistry
ELIZABETH ANN MONGER, MSc

STAFF OF THE SCHOOL OF AGRICULTURE & FORESTRY LECTURING IN ANIMAL PRODUCTION AND AGRONOMY

Professor of Animal Nutrition
DEREK EDWARD TRIBE, OBE BSc(Agric) R‘dg. PhD Aberd. DAgRSc FTS FAIAS
Professor of Animal Production
NORMAN MCCALL TULLOH, DAgRSc PhD FAIAS
Senior Lecturer in Animal Breeding
ROLF GEORGE BEILHARZ, MScAgr Syd. PhD Iowa MAgrSc
Senior Lecturer in Animal Production
ANTHONY COLTHUP DUNKIN, BSc(Agric) R‘dg. MSc(Agric) Lond.
Senior Lecturer in Animal Nutrition
GEOFFREY ROGER PEARCE, BSc(Agric) PhD W.Aust. MAgrSc.
Lecturer in Animal Production
HORACE PETER LEDGER, PhD R‘dg. NDD CDD
PETER THOMAS DOYLE, BSc(Agric), PhD W.Aust.
Reader in Agriculture
JOHN HEATHERBELL WILSON, PhD Lond. BAgSc
Chapter 1

GENERAL INFORMATION

STUDENTS' INFORMATION BOOKLET
Students should consult this booklet for additional information of a general importance to all students.

DEGREES

BACHELOR OF VETERINARY SCIENCE
A five-year course, the fourth and fifth years being spent at the Veterinary Clinical Centre, Werribee. See Regulation in Chapter 3.

BACHELOR OF ANIMAL SCIENCE
Candidates for this degree must have completed the third or a later year of the course for the degree of bachelor of Veterinary Science and then undertake a course of advanced studies for at least one year. See Regulation in Chapter 3.

MASTER OF VETERINARY SCIENCE
Candidates for this degree must pursue a course of advanced studies and training in research, under such supervision as the faculty may prescribe, for not less than one year, at the end of which he must submit a thesis and a review of the literature. He may also be required to pass an additional examination. See Regulation in Chapter 3.

MASTER OF VETERINARY STUDIES
Candidates for this degree must pursue a course of advanced studies for at least one academic year, attend lectures or classes, undertake practical work as may be prescribed by the Faculty and pass the prescribed examinations. See Regulation in Chapter 3.

DOCTOR OF PHILOSOPHY
Applicants for candidature must be graduates of this or some other University recognised for the purpose of the Regulation by the Academic Board and must be of such standing as prescribed by the Academic Board. Applications are received by the Ph.D. Committee of the Academic Board on the recommendation of the Chairman of Department and Dean of the Faculty. The first year of supervised candidature is probationary, followed by two years of confirmed candidature. The two year period may be reduced if the candidate has had other supervised postgraduate research experience approved by the Academic Board. See R. 3.60 in University Calendar. The minimum requirement for admission to Ph.D. candidature in this Faculty, for Bachelor of Veterinary Science graduates, is one year (or its equivalent) of approved research experience. Upon the satisfactory completion of the year of probationary candidature, Ph.D. candidates in this Faculty will proceed to a minimum of one year of confirmed candidature.

DOCTOR OF VETERINARY SCIENCE
Obtainable only by thesis on a subject approved by the Faculty of Veterinary Science. Candidates must be bachelors of Veterinary Science of at least three years' standing. See Regulations in Chapter 3.
UNIVERSITY GENERAL PRINCIPLES OF SELECTION FOR ENTRY TO FIRST YEAR UNDERGRADUATE COURSES

1. Preamble

1.1 SELECTION COMMITTEE
There shall be a selection committee for each course consisting of the Dean of the faculty or the Chairman of the board of studies concerned, or a person nominated by them, and such other members as may be approved by the Academic Board on the recommendation of that faculty or board of studies. If any member of a selection committee is unable to act, the Chairman of the Academic Board may approve the appointment of a substitute, on the recommendation of the Dean of the faculty or the Chairman of the board of studies concerned.

A selection committee shall identify those applicants to whom offers shall be made for places within the quota or sub-quotas for that course.

A selection committee shall make its decisions by the vote of a majority of the members present and voting and shall report those decisions to the Academic Board as soon as possible.

1.2 APPLICATIONS

1.2.1 Applicants for selections should submit applications on the appropriate form by the date prescribed, or by such closing date as may be prescribed for the receipt of late applications.

1.2.2 No application for selection lodged after such closing date shall be considered unless the selection committee concerned is satisfied that special circumstances exist which justify a later application.

1.2.3 University Regulation 1.1.2 permits the Academic Board to declare eligible for admission persons who lack qualifications ordinarily required for admission. Persons wishing to be considered under this regulation should apply to the Registrar.

1.3 SPECIAL AND GENERAL PRINCIPLES

1.3.1 Special principles of selection for any faculty or board of studies may be approved by Council on the recommendation of the Academic Board.

1.3.2 Except insofar as is provided by general principles of selection those special principles shall not conflict with the general principles.

2. Selection Procedures

2.1 Pursuant to the following principles and to any special principles approved by Council, the selection committee shall identify and rank those applicants who are considered most likely to pursue successfully the course concerned; and places shall be offered in accordance with such ranking until the places available in the quota or sub-quotas fixed by Council have been filled.

2.1.1 Selection shall be based primarily on academic merit as judged by reference to the results of the applicant in the Victorian Higher School Certificate examination.

2.1.2 (a) Where applicants have not attempted the Victorian Higher School Certificate examination, their qualifications shall as far as possible be accorded such standing as will enable their academic merit to be compared with that of other applicants for selection in the relevant quota or sub-quota for that course.

(1) The normal closing date is the Friday nearest to the end of October, but should be confirmed by reference to the Victorian Universities Admissions Committee or the Principal Dates as published by the University.

(2) In the past, the Academic Board has declared certain disadvantaged applicants, particularly persons of Aboriginal extraction, eligible for selection under this provision.
(b) In assessing the relative likelihood of success of applicants who have not attempted any subject at the Victorian Higher School Certificate examination prescribed by special principles of selection as a prerequisite subject for a course, a selection committee shall give due credit to an applicant who has successfully completed a subject which, in the opinion of the selection committee, is not substantially different in content or standard from the prerequisite subject prescribed.

2.1.3 In establishing the relative likelihood of success of any applicant, a selection committee may, at its discretion, also take into account:

(a) the results of any examinations attempted subsequent to the Victorian Higher School Certificate or equivalent examination;
(b) the age of an applicant when attempting any examinations relied on as qualifying the applicant for admission;
(c) any illness, war or military service, or serious hardship as a result of which the studies or examination performance of an applicant have, in the opinion of the committee, been adversely affected;
(d) physical handicaps or disabilities;
(e) school principals' reports, where those reports may assist the selection committee in evaluating the effect of factors referred to in paragraph (c) or (d).

*2.1.4 A selection committee may conduct interviews to elucidate the matters referred to in section 2.1.3 above or for such purposes as may be provided for in special principles of selection.

2.1.5 A selection committee may also take into account any special principles of selection or other factors approved by Council on the recommendation of the faculty or board of studies concerned and the Academic Board.

2.1.6 No selection committee shall take into account to the prejudice of an applicant the fact that the applicant has expressed a lower preference for the course concerned than other applicants with whom the applicant would otherwise be directly comparable.

2.2 In assessing academic merit as judged by reference to results in the Victorian Higher School Certificate examination, the formula adopted by the Victorian Universities Admissions Committee shall be used where applicable provided that:

*2.2.1 special principles of selection may provide that applicants must have obtained a grade of D or higher in certain subjects at the Higher School Certificate examination or its equivalent as a prerequisite for selection into a course and may further provide that the results obtained in one or more prerequisite subjects shall be substituted for the results obtained in one or more of the 'best four' subjects referred to in the formula. Where the results in prerequisite subjects are so substituted they shall be substituted for the subject or subjects in which the applicant has obtained the lowest results.

*2.2.2 special principles of selection may provide that results obtained in particular subjects shall not be included either as one of the 'best four' subjects or as bonus subjects, or both, in calculations made under the formula.

*2.2.3 where an applicant has attended for more years than are usual in the senior years of secondary school before sitting for the Higher School Certificate examination or its equivalent, special principles of selection may provide that any advantage which the applicant may have thereby received be taken into consideration.

*2.2.4 where an applicant has obtained a grade of D or higher in any prerequisite subject on more than one occasion, and unless special principles of selection provide otherwise, the applicant

*Makes provision for special principles to be proposed.
shall be given credit for the best of those results provided that in
the Higher School Certificate examination for the same year the ap-
plicant has obtained a grade of D or higher in at least four subjects.

2.2.5 special principles of selection may provide for special
debits and bonuses to be applied to an applicant's score determin-
ed under the formula.

2.2.6 in deciding between applicants at or near the borderline,
the relative academic merit of the applicants as determined by the
formula may be adjusted after considering the results obtained in
particular subjects.

2.3 Unless special principles of selection provide otherwise or in the
absence of special reasons, applicants who have not yet completed
a course at a university or any other tertiary institution shall be
preferred to applicants who have completed such a course.

2.4 Unless special principles of selection provide otherwise and not-
withstanding the provisions of paragraph 2.1.1, applicants who have
completed a course at a university or any other tertiary institution
will be considered in the light of their entire academic records and
such other written information which they may submit.

2.5 The number of overseas applicants admitted to any course shall not
normally exceed by more than 10 percent the annual average
number of such applicants admitted to that course over the
preceding three years. No overseas applicants shall be selected in
preference to an Australian applicant of equal or superior merit.

2.5.1. An overseas applicant means an applicant who has been
or may be permitted to enter Australia as a temporary resi-
dent or whose permanent home in the opinion of the
selection committee is overseas but does not include an
applicant who is an Australian citizen resident overseas.

2.5.2. Special principles of selection may provide that in con-
sidering an overseas applicant for selection, account may
be taken of the availability to the applicant of a specified
type of education in any other country and the existence
of any agreed programmes of assistance to any other
country.

2.6 Special principles of selection may provide that in the selection of
applicants whose permanent home is, in the opinion of the selec-
tion committee, outside Victoria, the committee may take into ac-
count the availability to the applicant of a specified type of educa-
tion in other states and territories of Australia.

2.7 An applicant is not selected into the course for which a first
preference has been expressed shall be considered for the course
of second and, if necessary, subsequent preference and shall be
ranked for selection in preference to any other applicant of inferior
academic merit.

3. Reservation of Places in Quotas (Deferment)

3.1 For applicants who have been selected as a result of having com-
pleted the full Higher School Certificate examination or its
equivalent in one of the two years prior to the year of selection,
places in the succeeding year's quota shall be reserved for ap-
plicants at their request provided that a faculty or board of studies
may fix the number of places to be reserved in any year, having
regard, where appropriate, to the number of applicants who have
requested the reservation of places in previous years. Special prin-
ciples of selection may further provide that deferment may be
granted either with or without reasons for other categories of ap-
plicants who have been selected.

3.2 Where a faculty or board of studies limits the number of places

Makes provision for special principles to be proposed.

(3) Up to two sponsored students under the Colombo Plan or other international schemes may be
selected for each Faculty in advance of the normal selection. Where the selection committee concerned
considers that they would come within the group to be selected for the following academic year,
without prejudice to the rights of other such applicants to be selected in the normal selection.
which may be reserved in the succeeding year's quota, special principles of selection shall provide for a method of choosing between applicants when the number of applicants exceeds the number of places fixed. Provision may be made for the use of reports from school principals.

*3.3 Special principles of selection may further require an applicant who is ranked in the lowest 20 percent of those to whom places have been offered and who has requested the reservation of a place in the succeeding year’s quota to submit a reason for the request. A submission from a school principal may also be considered. If, in the opinion of the selection committee, the reason is insufficient, it may refuse the request.

3.4 The selection of an applicant to a course in the year for which selection is principally being made shall not be prejudiced by an application for reservation of a place in the succeeding year’s quota having been made prior to or at the time of accepting the offer of a place.

*3.5 Where an applicant has been granted a deferred place pursuant to paragraph 3.1, the applicant shall notify the faculty or board of studies concerned by January 15th in the succeeding year, or by any earlier date as may be prescribed by special principles of selection:—

(a) whether or not the place so reserved will be taken up in that succeeding year.

(b) whether a further deferment for a second year is sought.

A selection committee may, after considering such evidence and conducting such interviews as it thinks fit, and subject to any special principles of selection, grant a deferred place for a second period of one year.

SPECIAL PRINCIPLES OF SELECTION FOR ENTRY TO FIRST YEAR UNDERGRADUATE COURSE— VETERINARY SCIENCE

1. Preamble
   Except to the extent that they are expressly modified hereby, the General Principles of Selection for Entry to First Year Undergraduate Courses are incorporated with those special principles of selection for the first year of the undergraduate course of the faculty.

2. Eligibility
   Applicants for admission to the course for the degree of Bachelor of Veterinary Science must have obtained a grade of D or higher in Chemistry and in either Physics or a branch of Mathematics at the Higher School Certificate examination or its equivalent.

3. Selection
   3.1 The result obtained in Chemistry, and the best result obtained in either Physics or a branch of Mathematics, if not among the applicants' 'best four' subjects, shall be substituted for the results obtained in one or more of the applicant's 'best four' subjects referred to in the formula adopted under the General Principles of Selection.

   3.2 In deciding between applicants at or near the borderline the selection committee may, at its discretion, take into account:

      3.2.1 Work-experience of an applicant obtained subsequent to the completion of secondary school studies.

      3.2.2 Other experience of an applicant in fields relevant to veterinary studies.

   3.3 The selection committee may, at its discretion, take into consideration any written information submitted by the applicant and information as revealed by interviews arranged for the purposes of eliciting the matters included in paragraph 3.2.

   3.4 In considering an overseas applicant for selection, account will be taken of the availability to the applicant of veterinary education in

*Makes provision for special principles to be proposed.
the applicant's own country and the existence of any agreed programmes of assistance to that country.

3.5 In the selection of applicants whose permanent home is, in the opinion of the Selection Committee, outside Victoria, the committee may take into account the availability to the applicant of veterinary education in other states and territories of Australia.

4. Reservation of Places (Deferment)
An applicant who is ranked in the lowest 20 percent of those to whom places have been offered and who has requested the reservation of a place in the succeeding year's quota will be required to submit a reason for the request. If, in the opinion of the selection committee, the reason is insufficient, it may refuse the request.

POLICIES GOVERNING ADMISSION 1979

Quotas and Selection

FIRST YEAR
In view of the shortage of laboratory accommodation and the increased enrolments, the University Council has placed a restriction on the number of students permitted to enrol in the First Year of the Veterinary Science Course. This number is 50 in 1979.

SECOND YEAR
Quota and Admissions:
The accommodation and teaching facilities available for Second Year Veterinary Science will be adequate for only 54 students. However, the Faculty is of the opinion that students in the following three categories have a legal right to be enrolled for the course, and the Faculty is therefore prepared to accept all students who qualify in these categories:
1. All who pass the First Year examination.
2. Students permitted to repeat Second Year.
3. Second Year students permitted to resume the course after leave of absence.

If the total number in these categories falls short of 54, the Faculty will admit other qualified applicants up to this number. Therefore, admissions to Second Year shall include the above three categories, together with technically qualified transferees (from other courses in this University) and technically qualified ad eundem statum candidates (from other approved Universities) who shall be admitted (after selection on academic merit, if selection proves necessary, at the discretion of the faculty) if their enrolment does not cause the total enrolments for the year to exceed 54.

THIRD YEAR
Ad eundem statum admissions and other transfers shall not cause the total permitted to enrol in the year to exceed 54.

FOURTH YEAR AND FIFTH YEARS
Ad eundem statum admissions and other transfers shall not cause the total permitted to enrol in either year to exceed 42.

Applications

FIRST YEAR
All students applying for admission to the First Year of the Veterinary Science course must:
1. Obtain from the Victorian Universities Admissions Committee, 11 Queens Road, Melbourne, 3004, an application form and a handbook of instructions;
2. complete and lodge the form according to the instructions. The identification code for this course is UVS;
3. await the result of the application and if an offer is made attend promptly at the University.
SECOND AND LATER YEARS
All students applying for admission to Second or later years of the Veterinary course must apply directly to the Assistant Registrar (Veterinary Science) in the first instance.

PHOTOGRAPHIC RECORD OF STUDENTS
Students admitted to the First Year of the Veterinary Course may be required to be photographed for record purposes.
Directions for having photographs taken at the School of Veterinary Science (free of charge) will be given prior to Orientation Week.

SPECIAL INSTRUCTIONS FOR VETERINARY SCIENCE STUDENTS
Your attention is drawn to the following advice concerning Examinations and the conditions regarding consideration in special circumstances.
Students should also note Paragraph 6 relating to the conditions under which the Faculty is required to report students who are making unsatisfactory progress in this course.

SPECIAL CONSIDERATION
If your studies during the year have been affected by illness or other serious causes, you may apply to the Registrar for special consideration, before the commencement of the examination period. Conditions of employment or overtime are not grounds for special consideration.
If you cannot sit for an examination because of illness or other serious cause, you should notify the Registrar in writing enclosing a medical certificate or other evidence.
If you become ill during an examination, see the Chief Supervisor and notify the Registrar in writing immediately.
Absence from examination through misreading the time-table does not entitle a student to any further examination.

EXTRA TESTS
Further tests may be given in all subjects, either orally or by short written examinations in the Departments. You will be advised by letter at short notice regarding attendance for these tests. Notices will be sent to addresses given on Examination Entry forms. Candidates should ensure that their current addresses are recorded at Students' Records Office. Those who leave Melbourne before the publication of results do so at their own risk.

SPECIAL EXAMINATIONS
Special Examinations may be granted in exceptional cases of students who have been gravely hampered by illness or other serious cause, either during the year or during the examination. The times of these Special Examinations will depend on the individual case. (If a candidate had only been temporarily ill during the examination, then his Special Examination, if one is warranted, may be held a week or so later. If, on the other hand, a student has sustained a chronic or protracted illness during the year, he may be permitted to sit for a Special Examination in February).

MARKS AND REPORTS
Candidates are forbidden to communicate with examiners on the subject of the examination before the publication of results.
In very special circumstances, students requiring information may apply to the Assistant Registrar (Veterinary Science).
After the publication of results, students may apply for interview with the chairmen of departments to discuss their failure, but marks and reports cannot be supplied.

FACULTY PASS
A faculty pass for a year may be granted if a student does not pass all subjects of a year but performs sufficiently well in the passed subjects. A faculty pass can only be obtained at the first attempt (i.e. not a supplementary examination or repeat year) at the examinations for the year.
UNSATISFACTORY PROGRESS
Under University regulations, the Faculty may recommend to the Academic Board that students be suspended from the course or limited as regards subjects, in accordance with Regulations 2.5, if the students have shown unsatisfactory progress in their course.

ATTENDANCES AT LECTURES, DEMONSTRATIONS AND PRACTICAL WORK
Attendances at lectures, demonstrations, practical work and clinical instruction are compulsory and in addition, competent performance in carrying out the duties and work prescribed in all subjects is required. Failure to comply with these requirements may lead to disqualification for presenting at examinations. Students so disqualified will usually be notified in writing by the Faculty of Veterinary Science, but the Faculty is not bound to give such notification.

LEAVE OF ABSENCE
In special cases, for medical reasons or financial hardship, Faculty may grant one year's leave of absence from the course. A student failing to resume at the end of one year may be recommended for suspension and re-admission would be dependent upon selection in the prevailing quota.

CHANGE OF ADDRESS OR NAME
Students must advise the Students Records Office and the Assistant Registrar (Veterinary Science) immediately of any change of address or name, e.g. in the case of marriage.

INTERRUPTION TO STUDIES
Students prevented by illness or other serious cause from satisfying attendance requirements for one week or more should report their absences in writing to the Assistant Registrar, who will advise the lecturers in the relevant subjects, so that dispensation may be granted by the faculty, if necessary.

WITHDRAWAL FROM COURSE
Students who wish to discontinue their course must advise the Assistant Registrar (Veterinary Science) in writing. Having discontinued a course, a person who wishes to re-enrol in that course must apply for re-admission and is subject to re-selection.

TIMETABLES
Timetables for all years of the course will be posted on noticeboards at the commencement of first term.

EXAMINATION ASSESSMENT
The method of assessment and the relative weighting of essays, assignments, practical work, written or oral examinations or any other form of examination contributing to the overall assessment in each subject of examination will be posted on noticeboards at the beginning of first term.

UNIVERSITY HALL OF RESIDENCE
W. T. KENDALL HALL
Address: Veterinary Clinical Centre, Princes Highway, Werribee, Vic. 3030. The Hall provides residence for Fourth and Fifth Year Veterinary Science students. Postgraduate students are eligible for residence subject to availability of accommodation.
W. T. Kendall Hall is also available for residential schools, short courses and conferences during academic vacations.
Direct enquiries to Mrs S. A. Etherton, Office of the Dean, Veterinary Clinical Centre, Werribee, 3030.
See also the Students' Information Booklet.
## CHAPTER 2

### FINANCIAL ASSISTANCE

#### SUMMARY OF AWARDS

The following table gives a summary of awards other than those described in the Students' Information Booklet which are available to Veterinary Science students at entrance, undergraduate, final examination and postgraduate levels. More precise information concerning awards may be obtained from Chapter 6 of the Regulations or Appendix 2 in the Calendar or from the person indicated in the table.

N.B. — Values of awards as shown below are approximate only. Unless otherwise stated, the Information Source is the Assistant Registrar (Veterinary Science).

<table>
<thead>
<tr>
<th>Field</th>
<th>Title and Approximate Value</th>
<th>Calendar Reference or Information Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Reproduction Biology</td>
<td>National Bank Prize $40</td>
<td>R.7.3.6 (h)</td>
</tr>
<tr>
<td>Veterinary Science</td>
<td>Melbourne Metropolitan Veterinary Practitioners' Prize $50</td>
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<tr>
<td>Veterinary Anatomy</td>
<td>Ramsay Prize $50</td>
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<tr>
<td>Veterinary Clinical Medicine</td>
<td>W. M. Vansell Prize $100</td>
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<tr>
<td>Veterinary Pathology</td>
<td>Australian Veterinary Association (Federal Council) Prize</td>
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</tr>
<tr>
<td>Veterinary Pathology</td>
<td>H. E. Albiston Prize $200</td>
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<tr>
<td>Veterinary Preventive Medicine</td>
<td>Stanbroke Pastoral Company Prize $50</td>
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</tr>
<tr>
<td>Veterinary Science</td>
<td>Australian Veterinary Association (Victorian Division) Prize</td>
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<td>Veterinary Science</td>
<td>Dwights' Prize $50</td>
<td>R.6.5.4</td>
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<tr>
<td>Veterinary Science</td>
<td>The F. Gordon Elford Fund</td>
<td>R.7.86</td>
</tr>
<tr>
<td>Veterinary Science</td>
<td>Harry Worthington Prize $160</td>
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<td>Veterinary Science</td>
<td>Payne Exhibition $250</td>
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<td>Veterinary Science</td>
<td>Mary W. Wilson Prize $220</td>
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<td>Field</td>
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</tr>
<tr>
<td>Veterinary Surgery</td>
<td>Memorial Prize in Veterinary Surgery $39</td>
<td>R.6.72(60)</td>
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<td>Veterinary Surgery</td>
<td>May &amp; Baker Prize $180</td>
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<td><strong>Graduate</strong></td>
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<td>Field</td>
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<td>Calendar Reference or Information Source</td>
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<tr>
<td>Veterinary Science</td>
<td>Commonwealth Bureau of Animal Health Prize</td>
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<td>Veterinary Science</td>
<td>Sir John and Lady Higgins Research Scholarship</td>
<td>Secretary for Graduate Studies</td>
</tr>
<tr>
<td>Veterinary Science</td>
<td>J. M. Higgins Research Fund</td>
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<td>Veterinary Science</td>
<td>John Nevill Research Scholarship</td>
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<tr>
<td>Veterinary Science</td>
<td>H. W. C. Simpson Research Scholarship</td>
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<td>A. M. White Scholarship</td>
<td>&quot;Announcements&quot;</td>
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<tr>
<td>Veterinary Science</td>
<td>Dairy Farmers of Victoria Postgraduate Scholarship</td>
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<td>Veterinary Science</td>
<td>Sunshine Foundation Scholarship</td>
<td>R.6.128</td>
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<td>V. W. Officer Prize</td>
<td>R.6.157</td>
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<td>Pal Scholarship</td>
<td>&quot;Announcements&quot;</td>
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<tr>
<td>Veterinary Science</td>
<td>Barrenger Overseas Veterinary Scholarships</td>
<td>&quot;Announcements&quot;</td>
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CHAPTER 3
REGULATIONS — VETERINARY SCIENCE

Regulation 3.31 — Degree of Bachelor of Veterinary Science

1. There shall be:
   (a) a degree of bachelor of Veterinary Science; and
   (b) a degree of bachelor of Veterinary Science with honours.

DEGREE OF BACHELOR OF VETERINARY SCIENCE

2. A candidate for the degree of bachelor of Veterinary Science shall, after matriculation, pursue his studies for five Years, pass the prescribed examinations and comply with the conditions of this regulation.

3. No candidate shall be admitted to the course for the degree of bachelor of Veterinary Science unless, subject to dispensation by the faculty of Veterinary Science in special cases, he has obtained Grade D or higher in Chemistry and in either Physics or a branch of Mathematics at the Higher School Certificate Examination.

4. During each Year of the course and between Years of the course, a candidate shall attend such lectures, excursions and demonstrations and perform such laboratory and practical work as the faculty of Veterinary Science (hereinafter called "the faculty") shall determine unless he satisfies the faculty that he has had appropriate training elsewhere.

4A. The subjects of the course for the degree and the conditions on which such subjects may be taken shall be as prescribed from time to time by the Academic Board on the recommendation of the faculty and published with the details of subjects.

5-10. Repealed.

11. (1) To pass a Year of the course a candidate shall comply with one of the following conditions:
   (i) he shall pass at an annual examination in or obtain credit for each subject of that Year; or
   (ii) he shall be passed by the faculty in the Year of the course as a whole. In awarding such pass the faculty shall take into account his performance in all subjects in accordance with the principles determined by the faculty from time to time and approved by the Academic Board. A candidate passed by the faculty in the Year as a whole who has not passed at the annual examination in or obtained credit for any particular subject shall not be recorded as having passed in that subject.

   (2) Except where special permission is given by the faculty a student shall pass one Year of the course in accordance with the preceding sub-section before being allowed to proceed to any subject of the succeeding Year of the course. In no case shall he proceed to any subject of the Third Year unless he has passed the First Year, nor to any subject of the Fourth Year unless he has passed the Second Year.

   (3) A candidate who before the beginning of any academic year has not passed a Year of the course in accordance with sub-section (1) hereof must take or repeat the whole of that Year of the course which he has not completed, unless special permission to do otherwise is granted by the faculty.

12. (1) A candidate shall gain practical experience in —
   (a) the application of veterinary science, for at least three months which need not be continuous under such supervision and such conditions as may be approved by the faculty; and
(b) animal management for at least three months which need not be continuous in accordance with conditions approved by the faculty.

(2) On the recommendation of the faculty, the Council may appoint persons who are qualified to engage in the practice of veterinary science to act as supervisors for the purposes of sub-section (1) (a) each of whom shall report to the faculty as required by it concerning the performance of each candidate under his supervision.

(3) Each candidate shall submit to the faculty a certificate satisfactory to the faculty recording his work in animal management in accordance with the approved conditions.

13. Where the faculty is satisfied that the candidate has had adequate practical experience in the application of Veterinary Science, including Animal Management, the faculty may exempt such candidate from all or part of the requirements of section 12 hereof.

14. In each Year the examinations may be for both pass and honours and separate honour class lists shall be published.

15. A candidate who has fulfilled the requirements of this regulation may be admitted to the degree of bachelor of Veterinary Science.

DEGREE OF BACHELOR OF VETERINARY SCIENCE WITH HONOURS

16. A candidate for the degree of bachelor of Veterinary Science with honours shall complete the course as for the degree of bachelor of Veterinary Science in accordance with the preceding provisions.

17. The faculty shall after considering the whole of a candidate’s course publish a final honour class list which shall contain in order of merit the names of candidates who have obtained first class, second class or third class honours. Candidates who have been so classed may be admitted to the degree of bachelor of Veterinary Science with honours.

Regulation 3.79 — Degree of Bachelor of Animal Science

1. Candidates for the degree of bachelor of Animal Science shall after completing the third or a later year of the course for the degree of bachelor of Veterinary Science pursue for not less than one year a course of advanced studies in any one of the following subjects: Anatomy, Histology, Embryology, Pharmacology, Physiology, Biochemistry, Pathology, Microbiology, Parasitology, Animal Genetics, Animal Nutrition, or in such other subject as the faculty of Veterinary Science may approve.

2. Before commencing his course a candidate shall obtain the approval of the faculty of Veterinary Science and of the head of that department of the University in which he proposes to carry out his course, and the head of that department shall with the approval of the faculty prescribe for him the advanced studies to be pursued by him.

3. No candidates shall be admitted to the course unless —

(a) in the opinion of the faculty of Veterinary Science he has shown special aptitude for his studies in the course for the degree of bachelor of Veterinary Science; and

(b) he has been recommended by the head of the department in which his advanced studies are to be carried out.

4. The head of the department in which the candidate proposes to carry out his course of advanced studies may, with the approval of the faculty of Veterinary Science, require the candidate to attend lectures, carry out practical work, and pass an examination in a subject or subjects, or any parts of a subject or subjects, related to his course.

5. A candidate shall submit for examination a detailed report on the advanced studies carried out by him and may be required to pass a written examination or a *viva voce* examination, or both, concerning the subject of such report.
6. A candidate who has submitted a satisfactory report on his advanced studies and fulfilled all other conditions prescribed for him may be admitted to the degree of bachelor of Animal Science which degree shall be for pass and honours.

Regulation 3.32 — Degree of Master of Veterinary Science
1. A person may be a candidate for the degree of master of Veterinary Science if:
   (a) (i) he is a bachelor of Veterinary Science in the University; or
       (ii) he has an equivalent qualification accepted by the Academic Board on the recommendation of the faculty of Veterinary Science (hereinafter called "the faculty");
   (b) he has obtained the approval of the faculty to an outline of his proposed course of advanced studies and research; and
   (c) he has given to the faculty satisfactory evidence of sufficient training and ability to pursue the proposed course.
2. A candidate shall pursue a course of advanced studies and training in research under such supervision as the faculty may prescribe for at least one year.
3. A candidate shall during the course devote his whole time to his advanced study and research, save that:
   (a) the faculty may allow a candidate, on application, to undertake a limited amount of university teaching or other work which in its judgement will not interfere with the pursuit of the proposed course of advanced study and research;
   (b) the faculty may admit as part-time candidates for the degree —
       (i) a member of the staff of the University, or
       (ii) a person engaged in an occupation which in the opinion of the faculty leaves the candidate substantially free to pursue his course in a department of the University;
   and the faculty shall prescribe the duration of the course for a part-time candidate having regard to the proportion of time which he is able to devote to the course in the appropriate University department, which is equivalent to the one year ordinarily required.
4. Each candidate shall:
   (a) submit for examination, within the period prescribed by the faculty, a thesis based on the work carried out by him during his course of advanced studies and research;
   (b) pass the examination in any subject or subjects prescribed by the faculty;
   (c) undergo such further test whether by written paper or otherwise as the faculty may determine.
5. A candidate for the degree of master of Veterinary Science may not, except by special permission of the faculty, enter at the examination for any subject other than those prescribed for the completion of the course for that degree.
6. Notwithstanding any other provisions in this regulation a person may with the approval of the faculty be a "non-attending" candidate for the degree of master of Veterinary Science if:
   (a) he satisfies the requirements of section 1(a) hereof;
   (b) he has since obtaining such qualification acquired two years of experience in some branch of Veterinary Science approved for this purpose by the faculty or such other period as the Faculty may prescribe in a specific case;
   (c) he has obtained the approval of the faculty for his field of research.
7. A person who qualifies for candidature under the provisions of section 6 hereof shall after being admitted to candidature:
(a) (i) submit for examination, within the period prescribed by the faculty, a thesis based on his research work; or
(ii) under such conditions as the faculty shall specify, submit published or unpublished works, reports, or other documents, (hereinafter collectively called "other work") in place either of part or the whole of the thesis referred to in section 7(a)(i) hereof.
(b) undergo such further test whether by written paper or otherwise as the faculty may determine.

8. The theses referred to in sections 4(a) and 7(a)(i) of this regulation shall be prepared and submitted in accordance with Regulation 4.6 and with such additional specifications as the faculty may direct.

9. A candidate when submitting his thesis or other work shall submit a signed statement as to:
(a) the sources from which he derived his information;
(b) the extent to which he has availed himself of the work of others; and
(c) the portions of his thesis or other work which he claims as original.

10. Should the thesis or other work submitted by a candidate have been undertaken in collaboration with others, a candidate will be required to submit a signed statement as to the extent of his own share —
(i) in planning the work;
(ii) in carrying out the work; and
(iii) in writing an account of the work.

11. Candidates who have fulfilled the prescribed conditions, and been passed by the examiners, may be admitted to the degree of master of Veterinary Science.

Regulation 3.78 — Degree of Master of Veterinary Studies
1. A person may be a candidate for the degree of master of Veterinary Studies who:
(a) (i) is a bachelor of Veterinary Science of the University; or
(ii) has a qualification which is accepted as equivalent by the Academic Board on the recommendation of the faculty of Veterinary Science (hereinafter called "the faculty"). and
(b) has given to the faculty satisfactory evidence of sufficient training and ability to pursue the proposed course.

2. A candidate shall:
(a) pursue a course of advanced studies for at least one academic year, attend lectures and classes, and undertake practical work as may be prescribed by the faculty; and
(b) pass examinations prescribed by the faculty.

3. The courses of study available, the duration of each course, and the syllabus of each subject of examination, shall be prescribed annually by the Academic Board of the recommendation of the faculty, and published in the details of subjects.

4. Candidates who satisfy the requirements of this regulation may be admitted to the degree of master of Veterinary Studies.

Regulation 3.33 — Degree of Doctor of Veterinary Science
1. Candidates for the degree of doctor of Veterinary Science shall be either bachelors of Veterinary Science of at least three years standing or admitted on the recommendations of the faculty in accordance with Regulation 3.3 to the status of a candidate eligible to proceed to the examination for the degree of doctor of Veterinary Science.

2. The faculty shall not admit any person as a candidate for the degree unless he has in the opinion of the faculty already made substantial published contributions to Veterinary Science.
3. An intending candidate shall submit a record of his published scientific work and the prescribed number of copies of all the work whether published or unpublished, which he wishes to submit for examination. A candidate may not submit for examination work in respect of which he has already qualified for a degree in any university or, without the permission of the faculty, work which he has previously presented for any such degree. The faculty, if they approve the subject or subjects of the work submitted for examination, shall thereupon nominate examiners.

4. Every candidate in submitting his published work and such unpublished work as he deems appropriate shall state generally in a preface and specifically in notes the sources from which information is derived, the extent to which he has availed himself of the work of others, and in general terms the portions of his work which he claims as original. When a candidate submits work carried out in collaboration with another person, he shall indicate his own share in the work.

5. Candidates who have given evidence of research and ability satisfactory to the examiners and have fulfilled the other prescribed conditions may be admitted to the degree of doctor of Veterinary Science.

1. See Regulation 4.6. Three copies must be submitted.
CHAPTER 4
DETAILS OF SUBJECTS

SUMMARY LISTS OF SUBJECTS
When enrolling, students must quote the NUMBER as well as the name of
the subjects as listed below.

**BVSc (Regulation 3.31, Section 4A)**

**FIRST YEAR**
600-005. Animal Biology (Veterinary Course)
600-006. Plant Biology (Veterinary Course)
600-007. Biology (Genetics and Ecology) (Veterinary Course)
610-008. Chemistry (Veterinary Course)
640-008. Physics (Veterinary Course)
200-111. Agronomy

**SECOND YEAR**
200-211. Animal Production 1 (Veterinary Course)
260-201. Veterinary Anatomy
260-202. Veterinary Histology and Embryology
260-203. Veterinary Biochemistry
260-204. Veterinary Physiology 1

**THIRD YEAR**
200-311. Animal Production 2 (Veterinary Course)
270-301. Veterinary Microbiology
270-302. Veterinary Parasitology
270-303. Veterinary Pathology
260-304. Veterinary Physiology 2
260-305. Veterinary Pharmacology

**FOURTH YEAR**
250-401. Clinical Sciences 1
250-402. Clinical Sciences 2
250-403. Clinical Sciences 3
250-404. Clinical Sciences 4
250-405. Clinical Sciences 5
250-406. Clinical Sciences 6

**FIFTH YEAR**
250-507. Clinical Sciences 7
250-508. Clinical Sciences 8
250-509. Clinical Sciences 9
250-510. Clinical Sciences 10
250-511. Clinical Sciences 11
250-512. Clinical Sciences 12
250-513. Clinical Sciences 13

* An elective non-examinable subject.

**MVS (Regulation 3.78, Section 3)**
260-602. MVS Preclinical Sciences
This code and name to be used by students undertaking one of the following:
Veterinary Anatomy
Veterinary Histology and Embryology
Veterinary Biochemistry
Veterinary Physiology and Pharmacology
270—602. MVS Paraclinical Sciences
This code and name to be used by students undertaking one of the following:
Veterinary Pathology
Veterinary Microbiology
Veterinary Parasitology

280—602. MVS—Clinical Sciences
This code and name to be used by students undertaking one of the following:
Veterinary Clinical Sciences
Clinical Sciences
Veterinary Epidemiology and Preventive Medicine

MVSc (Regulation 3.32)
260—601. MVSc—Preclinical Sciences
270—601. MVSc—Paraclinical Sciences
280—601. MVSc—Clinical Sciences

BACHELOR OF VETERINARY SCIENCE

VACATION WORK
Students are required during vacations, to gain practical experience in the application of Veterinary Science, including animal management, for at least six months, which need not be continuous. The animal management section of this work (3 months) is carried out in connection with the subject of Animal Production, parts 1 and 2 (see details of subjects). All students exempted from part or all practical work may be expected to pass an examination in this work. The veterinary section of the work must be carried out under the supervision of veterinary practitioners appointed for this purpose by the Faculty. The minimum period of the veterinary section of the extra-mural work shall be 12 weeks and not more than 4 weeks of credit may be gained prior to completion of Clinical Sciences 1 in the fourth year. Prior approval by the Dean must be obtained for all extra-mural veterinary work and certification of satisfactory completion of the work must be submitted by the student.

HONOUR WORK
The syllabus and examination for honours will be the same as that for pass, but candidates for honours will be required to attain a higher standard and to show more detailed knowledge.

LECTURES AND PRACTICAL WORK
Details of subjects for the course, including the number of lectures, tutorials, etc., and hours of practical work, are published below.

EXTERNAL STUDIES
No external tuition is provided in any subject.

BOOKS
This year lists of essential preliminary reading, prescribed texts and important reference works for the various subjects are located in a separate BOOKS section near the end of this handbook.

FIRST YEAR

600—005. ANIMAL BIOLOGY
This is the Science subject 600—103 but Veterinary Science students must use the number 600—005.
Convener: Dr Macmillan, Department of Zoology.
48 lectures: 48 hours practical work, weekly demonstrations, half-day and whole-day excursions may be arranged; 1st and 2nd terms.
**PREREQUISITES:** a knowledge of Chemistry and Physics to H.S.C. standard is assumed. A knowledge of H.S.C. Biology would be an advantage.

**SYLLABUS**

The course will be divided equally between:

1. **Vertebrate Zoology:** a brief diagnosis of vertebrates and their classes; a description of anatomy, structure and function of selected organ systems in a non-mammalian type (an amphibian); the fossil history of vertebrates; an introduction to chick and amphibian embryology. Practical work; thorough dissection and histological examination of an amphibian; superficial dissection of two other vertebrates; some aspect of behaviour of physiology of a live mammal; embryology.

2. **Invertebrate Zoology:** lectures and practical work will consider the following groups; Protozoa, Porifera and Coelenterata, Platyhelminthes and Nematodes, Annelida; Arthropoda, Mollusca, Echinodermata and Protostomes. For each Phylum there will be an account of functional anatomy and life cycles for one or more types, followed by a review of the group emphasising features of biological and economic importance.

**EQUIPMENT**

Students must provide themselves with dissecting instruments, laboratory drawing books (No. 7), a number of microscope slides, cover-slips and a hand lens (x 10). Microscopes are provided in the laboratory in the Redmond Barry Building.

**EXAMINATIONS**

3-hour theory examination in the August examination period, and a practical examination in the August examination period.

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**600—006. PLANT BIOLOGY**

This is the Science subject 600—104 but Veterinary Science students must use the number 600—006.

Convener: Dr Attiwill, Botany School
48 lectures, 48 hours practical work, weekly demonstrations, up to two whole-day excursions; 1st and 2nd terms.

**PREREQUISITES:** a knowledge of Biology, Chemistry and Physics to H.S.C. standard is an advantage.

**SYLLABUS**


**EQUIPMENT**

Students must obtain single-edge razor blades, dissecting instruments, microscope slides and cover-slips, a hand lens (x10) and a laboratory drawing book (No. 7). Microscopes are provided in the laboratory in the Redmond Barry Building.

**EXAMINATIONS**

Assessment will be based on practical reports and excursion reports, and on one 3-hour theory examination and one 1½-hour practical examination at the end of the course in August.
600-007. BIOLOGY (GENETICS & ECOLOGY)

(This is the Science subject 600—105 but Veterinary Science students must use the number 600—007).
Convener: Dr Porter, Department of Genetics.
24 lectures; 24 hours practical work; weekly demonstrations; a 1-day excursion may be arranged; 3rd term.

PREREQUISITES: a knowledge of Chemistry and Physics to H.S.C. standard is assumed. A knowledge of H.S.C. Biology would be an advantage.

SYLLABUS
Molecular biology; the nature of DNA, replication, transcription, translation, point mutation. Mitosis, meiosis, Mendelian ratios genetic linkage and their relationship to meiosis; phenotype/genotype interactions; chromosome modification. Population genetics; Hardy-Weinberg equilibrium, selection, migration, genetic drift, the evidence for evolution, quantitative genetics. The community concept; species distribution and numbers. Autecology. Limiting factors; species interactions, competition, predation, symbioses, chemical interactions. The concept of niche, co-evolution of plants and animals. Species diversity. Succession. Practical work to involve genetic experiments on insects, plants, fungi and man.

EQUIPMENT
Students must provide themselves with a razor or single-edged razor-blades, dissecting instruments and laboratory drawing books (No. 7), a number of microscope slides, cover slips and a hand lens (x 10). Microscopes are provided in the laboratory in the Redmond Barry Building.

EXAMINATIONS
A 2-hour written paper in November.

610—006. CHEMISTRY (VETERINARY COURSE)

4 lectures per week in 1st term, 3 lectures per week in 2nd term, approximately 56 lectures with 3 hours of laboratory work throughout both terms. A knowledge of Chemistry to the standard prescribed for the Higher School Certificate examination will be assumed in the course.

SYLLABUS
A general course in Chemistry is given covering physical, inorganic and organic chemistry. Particular emphasis is given to those areas relevant to Veterinary Science. The course covers the following topics: Atomic structure and bonding in diatomic molecules; Spectroscopy and structural methods; Bonding in polyatomic molecules and hybridization; Co-ordination chemistry, stereochemistry, equilibria, bonding and structure; Thermodynamics; Oxidation-reduction, free energy, entropy; Acid-base theory, buffers, pH, Henderson-Hassellbalch; Colligative properties—FPI, BPI, osmosis; Theory of gases and phase equilibria; Colloids and surface chemistry; Chemical kinetics; Conductance and electrolytes; Solubility equilibria; Structure, properties and stereochemistry of hydrocarbons; Organic acids and bases; Mechanisms of organic reactions.

LABORATORY WORK
3 hours per week, covering quantitative analytical chemistry, general inorganic, physical and organic chemistry, the experiments being chosen to illustrate and amplify the theory course. The practical classes for this subject are taken in the Biological and Engineering Chemistry Laboratory of the Redmond Barry Building. The department supplies all the apparatus.
EXAMINATION
Two 3-hour examinations held either at the end of the year or in stages throughout the year. Students will be informed of the form of the examination at the start of the year. The practical work is assessed continually throughout the course and taken into account in determining the success of candidates in the examination.

200—111. AGRONOMY
Co-ordinator: Dr Wilson
40 hours of lectures, practical work and demonstrations.

SYLLABUS
Types of plants — pasture plants; grasses, legumes — crops; cereals, fodder crops — weeds. Toxic plants.
The plant environment; soil, air, climate. Concepts of plant growth and development. Effects of environmental factors on crop and pasture development; hydrologic cycle, mineral nutrition, nitrogen cycle.
Pastures; botanical composition, types of pasture, management — establishing, fertilizing, irrigating grazing.
Fodder conservation; hay, silage, grain and grain by-products.
Quality aspects of fodder.

EXAMINATIONS
In addition to a written examination in fourth term, written and practical tests may be given during the course. Marks may also be given for assignments, projects and practical work. The timetable and weighting given to each part of the examination and details of requirements of written and practical tests will be published at the beginning of first term.

640—008. PHYSICS (VETERINARY COURSE)
Course Adviser: Dr Thompson
A course of about 110 hours, (approximately 56 lectures and 54 hours of laboratory classes). A knowledge of Physics to the standard of the H.S.C. examination will be assumed.

SYLLABUS
Wave Motion and Sound. Harmonic motion including damping and resonance. Wave motion including stationary waves and beats. Sound and ultrasonics.
Thermal Physics. Temperature, convection, conduction, radiation, change of state.
Electricity and magnetism. Induction, capacitance, magnetism as applied to instruments and motors, alternating current, simple electronics.
Optics. Angular magnification, polarization, resolving power, limiting of optical instruments, lasers, electron microscope.
Atomic and Nuclear Physics. Production of X-rays, their interaction with matter and biological applications. Radioactivity including biological effects, dosimetry.

LABORATORY WORK
Three hours per week. Laboratory classes may not proceed throughout the entire academic year. Attendance at practical classes is compulsory. The practical work of each student is examined continually during each term; records of success in experiments and impressions of laboratory work are kept. This information is taken into account in assessing the results (including the Class List) at the Annual Examination. An additional test in practical work may be given.
EXAMINATION
Two written papers for Pass and Honours combined — one during the year and one final, totalling three hours.

SECOND YEAR

200—211. ANIMAL PRODUCTION 1 (VETERINARY COURSE)

Dr Beilharz, Mr Dunkin, Dr Pearce, Professor Tulloch, Mr Ledger.
52 hours of lectures (2 lectures per week), and 78 hours of demonstrations and practical classes (3 hours per week). An excursion to a country district takes place either during the vacation between first and second terms or during the vacation between second and third terms.

SYLLABUS

1. Animal management procedures on the farm — including feeding, breeding, housing, rearing and harvesting of the animal products — in relation to each of the following animal industries: beef cattle, dairy cattle, sheep (wool and prime lamb), pigs and poultry. The annual programme of farm activities in relation to each type of herd and flock. Horse nutrition. Pasture utilisation and management.

2. Animal breeding. Genetic principles — frequencies of genes and genotypes in populations; Hardy-Weinberg equilibrium; forces that change frequencies; migration, mutation, selection, chance; interaction of forces. Inbreeding; other types of mating. Introduction to traits of continuous variation. Values and means, breeding value, deviations due to dominance, epistasis, environment. Variance, genotypic and environmental components. Resemblance of relatives; genetic, environmental and phenotypic covariance. Heritability and its estimation.


PRACTICAL WORK

Students must complete six weeks of practical farm work before the annual examination. This work must be carried out on farms approved by the Professor of Animal Production and must satisfy the provisions approved by the Faculty. A Practical Animal Production Record Book must be completed with respect to one period of practical work undertaken.

EXAMINATION

In addition to a written paper, of not more than 3 hours, in the examination term, written and practical tests may be given throughout the year. Marks may also be given for assignments, collections, projects and practical work.

260—201. VETERINARY ANATOMY

Course Co-ordinator: Dr Watson; Dr Lee, Mr Patterson
Approximately 75 lectures and 175 hours of practical work and tutorials.

SYLLABUS

The aim of the course is to provide veterinary students with a general understanding of the gross morphology of the domestic animals. The lecture course follows the systematic approach with the emphasis on principles and the relationship between structure and function. Time allocated to practical work is spent dissecting appropriate specimens to gain experience in recognising structures and organs, together with their location and relationships. Students are also expected to familiarise themselves with the prepared specimens on display in the anatomy rooms.
EQUIPMENT
White laboratory coats must be worn in all practical classes. Dissecting instruments must be brought to all practical periods.

EXAMINATION
One three hour written paper at the final examination, together with practical and oral examinations as required. The marks obtained for assignments and assessments of practical work carried out during the year may be taken into account.

260—202. VETERINARY HISTOLOGY AND EMBRYOLOGY
Course Co-ordinator: Dr O'Shea; Dr Lee
Approximately 52 lectures and 100 hours of practical work, demonstrations and tutorials.

SYLLABUS
Histology and embryology will be taught concurrently, with close coordination in the teaching of the major body systems.
1. Histology
The lectures will embrace cell structure, the basic tissues of the body, and the histology of the body systems. Emphasis will be placed on relationships between structure and function, at both the light and electron microscope levels. Practical work will be closely linked to the lecture course, and additional instruction will be given in microscopy and histological techniques. Sets of slides are provided.
2. Embryology
Mammalian embryology will be studied using the pig as a type animal. Comparative aspects will also be included. The course will cover the early stages of embryogenesis, development of the major body systems, and the formation of the extraembryonic membranes and placenta. Practical work will illustrate aspects of the lecture course.
Details of the requirements for practical classes will be provided at the beginning of first term.

EXAMINATION
The examination will consist of one 3-hour written paper, a practical examination, and an assessment of practical work during the year. Oral examinations will be held if necessary.

260—203. VETERINARY BIOCHEMISTRY
Course Co-ordinator: Dr McLean; Dr Titchen, Mrs Monger
Approximately 60 hours of lectures and lecture demonstrations with 65 hours of laboratory classes, discussion periods and tutorials provided by members of the Department of Veterinary Preclinical Sciences in the Second Year.

SYLLABUS
The course will provide a general introduction to biochemical principles and techniques, particularly as they apply to the domestic animals. The lecture course will cover the physical and chemical properties of biologically important compounds and their metabolism. Emphasis will be placed on integration and control of metabolic processes, particularly as they occur in the intact animal under varying conditions. The course is designed to provide an insight into metabolic processes and molecular mechanisms which are basic to a number of physiological and pharmacological phenomena. This approach to biochemistry forms a foundation on which the student may study physiological processes and relate these to an understanding of normality and abnormality.
The laboratory classes will include exercises designed to illustrate and supplement the lecture course, and will provide instruction in the use of biochemical techniques and instrumentation.
EXAMINATIONS
One 3-hour written paper. Practical, oral and progress examinations and assignments may be given during the year.

260—204. VETERINARY PHYSIOLOGY 1

Course Co-ordinator: Dr Titchen; Dr McLean, Dr O'Shea, Mr Stewart, Mr Freeman, Mr Rodgers.
Approximately 65 lectures and lecture demonstrations with 60 hours of practical classes, discussion periods, audio visual presentations and tutorials given in the Department of Veterinary Preclinical Sciences in the Second Year.

SYLLABUS
The course is concerned with principles of mammalian physiology. Reference is made specially but not exclusively to the functions and composition of blood and its circulation, respiration, body fluids and renal function, the functioning of the endocrine and nervous system, functioning of the digestive system and the physiology of reproduction. As appropriate, reference is made specially to the physiology of the domesticated animals. The course is complemented by that in Veterinary Biochemistry (260—203) and has as its overall aim establishment of a knowledge of normal function from which students progress to more detailed considerations in Veterinary Physiology (260—304) and Veterinary Pharmacology (260—305) and develop an understanding of how abnormality arises. Practical classes, audio visual presentations and tutorials are used to introduce some topics as well as to supplement considerations in lectures and lecture demonstrations. Students are informed of requirements for practical classes at the beginning of first term.

EXAMINATIONS
One 3-hour written paper. Practical, oral and progress examinations and assignments may be given during the year.

THIRD YEAR

200—311. ANIMAL PRODUCTION 2 (VETERINARY COURSE)

Professors Tribe and Tulloh, Mr Dunkin, Dr Pearce, Mr Ledger, Dr Beilharz
52 lectures (2 per week) and 78 hours of demonstrations, discussion periods, practical classes and half-day excursions (3 hours per week). An excursion to a country district takes place either during the vacation between first and second terms or during the vacation between second and third terms.

SYLLABUS
1. Ruminant nutrition — principles of ruminant digestion; the nutrition of young ruminants.
2. Non-ruminant nutrition — principles of non-ruminant digestion; the nutritional problems of non-ruminants, particularly those associated with pigs and poultry.
4. Feeding standards — units of measurements of composition and nutritive value of feedstuffs; nitrogen balance, digestibility trials, chemical analysis of rations, biological evaluation; starch equivalents; total digestible nutrients, digestible protein, net energy; the compilation and use of feeding standards.
5. Feeding systems — Practical formulation of rations for all classes of livestock, supplementary feeding, drought feeding, urea feeding; intensive feeding practices.
6. Growth and development of farm animals in relation to management practices, meat quality.
7. Veterinary economics — principles of farm management economics with particular reference to veterinary activities. The role of agriculture in the national economy.

PRACTICAL WORK
Students must have completed a total of not less than 12 weeks of practical farm work during the first three years of the Veterinary course. This work is to be completed before the annual examination in Third Year. The work must be carried out on farms approved by the Professor of Animal Production and must satisfy the provisions approved by the Faculty. A Practical Animal Production Record Book must be completed with respect to one period of practical farm work carried out during the year prior to the annual examination.

EXAMINATION
In addition to a written paper in the examination term, written and practical tests may be given throughout the year. Marks may also be given for assignments, projects and practical work.

270-301. VETERINARY MICROBIOLOGY
Dr Hughes, Dr Studdert, Dr Whithear
Approximately 80 lectures and 160 hours of laboratory work.

SYLLABUS
The lecture course will consider the morphology and physiology of fungi, bacteria and viruses, the properties which enable them to cause disease, basic immunological phenomena and serological techniques applicable to veterinary medicine. It will include a systematic study of the individual micro-organisms of veterinary importance with special reference to differentiation, pathogenicity, epidemiology, chemotherapy, disinfection and sterilisation.
The practical work will include exercises to complement the lecture course.

EQUIPMENT
White laboratory coats are required for all laboratory classes. Manuals for use in practical classes may be obtained from the Department.

EXAMINATION
A 3-hour written examination and a 2-hour practical examination will be held in November. Progress tests may be held throughout the year.

270-302. VETERINARY PARASITOLOGY
Mr Arundel, Dr Rickard
Approximately 50 lectures and 80 hours of practical work.

SYLLABUS
The course will embrace lectures on veterinary helminthology, entomology and protozoology, biology and life-cycles of organisms in each class, properties which enable the organisms to cause disease, responses of the host to infection including immunological states, and differential characteristics of the organisms of veterinary importance.
The practical work will include exercises directly related to the lecture course.
EXAMINATION
One mid-year practical examination, 2 hours. One 3-hour written test. One 3-hour practical test. *Viva voce* examination if necessary.

270—303. **VETERINARY PATHOLOGY**

Dr Wells, Dr Jabara

Approximately 45 lectures and 85 hours practical work over three terms.

SYLLABUS

The lectures are devoted to general pathological processes, including the role of the reticuloendothelial system in disease; cellular degeneration and necrosis; inflammation, repair and regeneration; circulatory disturbances; tissue responses to injurious agents of physical, chemical and biological nature; disturbances of growth, including neoplasia; and the role of hereditary processes in disease.

The practical work is orientated towards experimental pathology and histopathology.

Study sets of slides are provided. Students are required to provide dissecting instruments and white laboratory coats.

EXAMINATION

One 3-hour theory paper. One 3-hour practical examination on macroscopic and microscopic specimens. *Viva voce* examination if necessary.

260—304. **VETERINARY PHYSIOLOGY 2**

Course Co-ordinator: Dr Titchen; Dr McLean, Mr Stewart, Mr Freeman, Mr Rodgers

Approximately 50 lectures and lecture demonstrations with 60 hours of practical classes, discussion periods, audio visual presentations and tutorials given in the Department of Veterinary Preclinical Sciences in the Third Year.

SYLLABUS

Aspects of mammalian physiology continued from Veterinary Physiology 1 (260—204) and Veterinary Biochemistry (260—203) with further reference as appropriate to physiology of the nervous system, endocrine glands, muscle, blood, fluid and electrolyte balance, digestive, circulatory, respiratory and reproductive systems. Consideration of the topics outlined will be supplemented by reference to the biochemistry of underlying metabolic processes and molecular mechanisms. Emphasis will be directed towards topics such as physiological responses to exercise, digestive physiology particularly in the ruminant, and features of foetal and neonatal physiology, and of vertebrates other than mammals. Practical classes, audio visual presentations and tutorials are used to introduce some topics as well as to supplement considerations in lectures and lecture demonstrations. Students are informed of requirements for practical classes at the beginning of first term.

EXAMINATIONS

One 3-hour written paper. Practical, oral and progress examinations and assignments may be given during the year.

260—305. **VETERINARY PHARMACOLOGY**

Course Co-ordinator: Mr Stewart, Dr Titchen, Mr Rodgers, Mr Freeman.

Approximately 42 lectures and 69 hours of laboratory classes, discussion periods and tutorials in the department of Veterinary Preclinical Sciences in the Third Year.
SYLLABUS
The course is designed to provide the student with an understanding of drug action and the effects of drugs on organ function. Material studied in the previous year in Veterinary Physiology 1 (260-204) and Veterinary Biochemistry (260-203) is developed further from a pharmacological viewpoint. Where feasible the course is co-ordinated with the concurrent course in Veterinary Physiology 2 (260-204), which is complementary and some aspects of the two courses may be presented together. Methods of administration of drugs, drug absorption, distribution, metabolism, excretion and dose-response relationships will also be considered. Drugs affecting fluid and electrolyte balance, the kidney and the autonomic nervous system are covered during the first term. This is followed by a consideration of autacoids, cardiovascular drugs and anaesthetics and other agents acting on the central nervous system, as well as drugs affecting the respiratory system, the gastrointestinal tract and the blood forming organs. The third term is devoted to a study of other narcotic drugs, chemotherapeutic agents, anti-inflammatory drugs and hormones.
Practical work is arranged to illustrate the lecture course, and to demonstrate techniques used in pharmacological investigation.

EXAMINATION
One 3-hour written paper. Practical, oral and progress examinations and assignments may be given during the year.

CLINICAL SCIENCES

Fourth and Fifth Years
The teaching of clinical and paraclinical sciences to the final two years of BVSc course is covered in 13 courses, entitled Clinical Sciences 1 to 13. There are more explicit titles which are intended to be used in official communications.
The arrangements of the material in the curriculum precludes the use of the conventional discipline titles such as Pathology, Medicine, Surgery and Obstetrics though the material usually provided in these disciplines is still taught while considering the diseases of the particular body systems or animal species. The individual diseases are themselves arranged according to the body systems and again according to the animal species affected.
This is a form of curricular arrangement and is not necessarily related to administrative arrangements or academic groupings amongst the teaching staff, nor to practical work.
PRACTICAL WORK
Practical work is by demonstration and practices in the various clinical and paraclinical units as set out in the time-tables and detailed lists available from the departments.

EQUIPMENT
Suitable protective clothing is required for all practical work in the clinics and laboratories. This includes rubber boots and white coats. White trousers and white T-shirts or white short-sleeved coveralls are required for surgical exercises.

EXAMINATIONS
The examination in Clinical Sciences 1 will be conducted at the end of 1st Term, and will consist of one 3-hour written paper and one practical examination. Any additional examinations could include practical and/or oral examination.
Examinations in Clinical Sciences 2, 3, 4, 5 and 6 will be conducted during the fourth term of the fourth year and will consist of one 3-hour written paper and one oral practical examination in each course. Additional oral examinations may be conducted.
The examinations in Clinical Sciences, 7, 8, 9, 10 and 11 will be conducted in the fourth term of the fifth year. The examination in each course will consist of one 3-hour written paper and oral examinations. The examination in Clinical Sciences 13 will be conducted in the fourth term of the fifth year and will consist of oral and/or practical examination supplemented by in-term assessments. Examiners may take into account the reports of extra-mural supervisors on the performance of students in the Veterinary section of their extra-mural training. There will be no examination in Clinical Sciences 12.

FOURTH YEAR
Year Co-ordinator: Dr Wilkinson

250—401. CLINICAL SCIENCES 1

Course Co-ordinator: Mr Christie; Mr Arundel, Dr Gay, Mr Lavelle, Mr Reynolds, Dr Studdert.
133 hours of lectures, tutorials, seminars, demonstrations and practical work.

SYLLABUS
The physical examination of the patient. The clinical use of antibiotics, corticosteroids, anthelmintics and insecticides.
Principles of surgery, surgical equipment, sterile technique, wound healing, wound infection, traumatic wounds, neoplasia.
Principles of anaesthesiology, the actions and methods of administration of anaesthetic drugs.
Principles of radiography, radiation safety and radiation therapy.

250—402. CLINICAL SCIENCES 2

DISEASES OF THE ALIMENTARY SYSTEM INCLUDING THE LIVER AND THE PANCREAS AND MISCELLANEOUS CONDITIONS AFFECTING THE BODY AS A WHOLE
Course Co-ordinator: Dr Sullivan; Dr Gay, Dr Wilkinson, Professor Blood, Mr Mason, Mr Speirs
112 hours of lectures, tutorials, seminars, demonstrations and practical work.

SYLLABUS
The pathology, clinical pathology, medicine, surgery and radiological examination of the systemic diseases as they affect the body as a whole, and the alimentary system.

250—403. CLINICAL SCIENCES 3

DISEASES OF THE RESPIRATORY, ENDOCRINE AND HAEMOPOIETIC SYSTEMS AND THE SKIN
Course Co-ordinator: Dr Wilkinson; Mr Christie, Mr Speirs, Dr Sullivan, Dr Studdert
103 hours of lectures, tutorials, seminars, demonstrations and practical work.

SYLLABUS
The pathology, clinical pathology, medicine, surgery and radiological examination of the respiratory, haemopoietic and and endocrine systems and the skin.
250—404. CLINICAL SCIENCES 4

DISEASES OF THE URINARY, CARDIOVASCULAR AND NERVOUS SYSTEMS
Course Co-ordinator: Dr Gay; Dr Sullivan, Dr Richards, Mr Christie, Dr Wilkinson, Mr Mason
114 hours of lectures, tutorials, seminars, demonstrations and practical work.

SYLLABUS
The pathology, clinical pathology, medicine, surgery and radiological examination of the urinary, cardiovascular and nervous systems.

250—405. CLINICAL SCIENCES 5

DISEASES OF THE REPRODUCTIVE SYSTEM AND MAMMARY GLAND
Course Co-ordinator: Dr Galloway; Dr Stoss, Mr Wright, Mr Christie, Mr Mason, Dr Sullivan
199 hours of lectures, tutorials, seminars, demonstrations and practical work.

SYLLABUS
The physiology, pathology, clinical pathology, medicine and surgery of the reproductive tract.

250—406. CLINICAL SCIENCES 6

DISEASES OF THE MUSCULOSKELETAL SYSTEM EAR AND EYE
Course Co-ordinator: Mr Mason; Dr Richards, Mr Reynolds, Mr Speirs.
98 hours of lectures, tutorials, seminars, demonstrations and practical work.

SYLLABUS
Diseases of the musculoskeletal system, diseases of the eye, ear.

FIFTH YEAR
Year Co-ordinator: Professor Blood

250—507. CLINICAL SCIENCES 7

EPIDEMIOLOGY, PREVENTIVE MEDICINE, PUBLIC HEALTH AND MEAT INSPECTION
Course Co-ordinator: Professor Blood; Dr Hughes, Dr Morley, Mr Rushford, Mr Gannon, Mr Gleeson
72 lectures:

SYLLABUS
Principles of epidemiology, preventive medicine, veterinary public health and food hygiene; meat inspection and slaughter-house operation; the epidemiology of infectious and non-infectious diseases and the factors effecting their development in the host; methods of epidemiological investigation and research, including some statistical methods; veterinary economics; disease control planning and assessment; veterinary law; ethics; and business practice.
250—508. CLINICAL SCIENCES 8

DISEASES OF DAIRY CATTLE
Course Co-ordinator: Professor Blood; Mr Arundel, Dr Wilkinson, Dr Richards, Dr Gay, Dr Sloss, Mr Wright, Mr Rushford
60 lectures

SYLLABUS
Diseases specifically associated with dairy cattle and with economic considerations and preventive medicine in the dairy industry.

250—509. CLINICAL SCIENCES 9

DISEASES AND PREVENTIVE MEDICINE OF DOGS AND CATS, MISCELLANEOUS PETS AND HORSES
Course Co-ordinator: Dr V. Studdert; Dr Richards, Dr Sullivan, Mr Arundel, Mr Bourke, Dr Hughes, Dr Sloss, Dr Gay
61 lectures

SYLLABUS
1. 42 hours. The specific diseases of cats and dogs and their diagnosis and treatment with some consideration given to management. Diseases of exotic pets are also included.
2. 19 hours. Equine diseases with special reference to management economics and disease control programmes.

250—510. CLINICAL SCIENCES 10

DISEASES OF BEEF CATTLE AND SHEEP
Course Co-ordinator: Professor Blood; Dr Hughes, Mr Arundel, Dr Richards, Mr Wright.
48 hours.

SYLLABUS
All aspects of preventive medicine in beef cattle and with disease entities specifically seen in sheep and some considerations of the economics of the sheep industry.

250—511. CLINICAL SCIENCES 11

DISEASES OF PIGS AND CHICKENS
Course Co-ordinator: Mr Harrigan; Dr Gay, Mr Arundel, Dr Smith

SYLLABUS
1. 30 lectures. Pig diseases and some aspects of management and economics.
2. 30 hours. Various aspects of management and diseases of poultry.

250—512. CLINICAL SCIENCES 12

DISEASES OF WILDLIFE
Course Co-ordinator: Mr Arundel

SYLLABUS
This is an elective, non-examinable course of lectures given by a number of authorities in specific fields such as: The ecology, management, reproduction and diseases of selected native and feral animals and birds, bees, goats, reptiles and laboratory animals.
CLINICAL SCIENCES 13

Clinics
Course Co-ordinator: Dr Sloss

SYLLABUS
Approximately 550 hours of formal and informal instruction in the clinical and paraclinical facilities of the Veterinary Clinical Centre during the fifth year of the course. The instruction will centre on the use of a combination of medical, surgical, gynaecological, obstetrical, pathological, microbiological, parasitological and other related techniques in the diagnosis, treatment and control of diseases of patients in the hospital and clinic. It will be based upon clinical material presented in the four weekly hours of clinical seminar, and other clinico-pathological conferences, and on rostered clinical and para-clinical practical work.

EXAMINATION
An oral and/or practical examination at the end of the fifth year supplemented by in-term assessments by clinical instructors throughout the year. This in-term assessment will be based on each student's intellectual and physical performance in clinical and para-clinical activities in the Veterinary Hospital and Clinic. Examiners may take into account the reports of extra-mural supervisors on the performance of students in the Veterinary section of their extra-mural training.

MASTER OF VETERINARY STUDIES
VETERINARY PATHOLOGY

Dr Richards

The course is designed for the applicant who holds a B.V.Sc. or equivalent qualification and is intended to provide a study of appropriate phases of veterinary pathology in sufficient depth that, on completion, candidates will be competent in pathologic diagnosis and in the supportive areas of parasitology, microbiology, and clinical pathology including haematology and clinical chemistry.
Candidates may be required to attend all or part of the course of lectures and practical classes in Clinical Sciences 2, 3, 4, 5 and 6 and to participate in demonstrations of immunology and systematic microbiology. Candidates will, under supervision, carry out post-mortem examinations including microscopic examination and such ancillary examinations as directed in parasitology, microbiology and clinical pathology.
Candidates will also be required to attend such tutorials, seminars and clinico-pathological conferences as are scheduled, and may be required to prepare reports on selected topics.
The course, including the examination sessions, will extend over one full year.
The examination will consist of progressive assessment throughout the course and a terminal examination consisting of oral and practical examinations and not more than three written papers of three hours each.
VETERINARY MICROBIOLOGY

Dr Hughes

The course is designed for the applicant who holds a B.V.Sc. or equivalent qualification and is intended to provide a study of appropriate phases of veterinary microbiology in sufficient depth that, upon completion, candidates will be competent in diagnostic microbiology. Candidates may be required to attend all or part of the course of lectures and practical classes in Veterinary Microbiology 270—301.

The course of instruction deals with the morphology, physiology, cultivation and classification of bacteria, fungi, viruses and protozoa; bacterial genetics; the effects of chemical and physical agents on growth and death of microbes; mechanisms of sensitivity and resistance to antibiotics and other chemotherapeutic agents; preparation of culture media; the "normal flora", a systematic study of the recognition of pathogenic microbes; pathogenesis and control of microbial diseases; principles of epidemiology; sources of infection; resistance of the host; immunity; serological and allergic reactions; preparation of vaccines, antitoxic and antibacterial sera and their practical application; biological standards.

In practical work candidates will, under supervision, carry out gross and microscopic examination of pathological material. Candidates will be required to develop proficiency in: the isolation and identification of saprophytic and pathogenic bacteria, fungi and protozoa; general microbiological techniques (e.g. lyophilization and maintenance of stock cultures; bacteriophage typing); preparation and standardization of vaccines; in vitro and in vivo serological tests; basic tissue cultures with viruses and chlamydia; interpretation of results and diagnosis of disease.

Candidates will also be required to attend such tutorials, seminars, and clinicopathological conferences as are scheduled, and may be required to prepare reports on selected topics.

The course, including the examination session, will extend over one full year.

The examination will consist of progressive assessment throughout the course and a terminal examination consisting of oral and practical examinations and not more than 2 written papers of not more than 3 hours each.

VETERINARY PARASITOLOGY

Mr Arundel

The course is intended to provide a study of appropriate phases of parasitology in sufficient depth so that, on completion, the candidate is competent in diagnostic parasitology and the principles of control. Candidates may be required to attend all or part of the course in Veterinary Parasitology 270—302, and those lectures dealing with parasitic diseases in Clinical Sciences 8, 9, 10 and 11.

The course of instruction will deal with taxonomy and the principles of classification of helminths, arthropods and protozoa, preparation of specimens for examination, diagnostic techniques and their evaluation, the reaction of the host to infection, epidemiology of parasitic diseases and their control, and the use of drugs in prevention and treatment.

Candidates will be required to attend such tutorials, seminars and clinicopathological conferences as are scheduled, and may be required to prepare reports on selected topics. Candidates may also be required to submit a dissertation of not more than 10,000 words on a selected topic.

The examination will consist of progressive assessment throughout the course and a terminal examination consisting of oral and practical examinations and not more than three written papers of three hours each. If a dissertation is required it will count towards the final assessment.

The course, including the examination session will extend over one full year.
VETERINARY ANATOMY

Dr Watson

A course designed as a basis for study of the topographical, systematic and functional anatomy of animals with special reference to species differences and specialisations of structure associated with particular functions. A candidate may be required to attend all or part of the lectures and laboratory work in Veterinary Anatomy 260—201. The course of instruction includes dissections of prepared and fresh specimens with special reference to the musculo-skeletal, visceral and nervous systems of one or more species. A candidate may be required:

• to undertake the detailed preparation of dissections of one or more selected regions of the body and to employ techniques ancillary to dissection to display the innervation, vascular and lymphatic arrangements of the regions.
• to develop a familiarity with the methods employed in the acquisition and presentation of anatomical data, and with methods used in the preservation and maintenance of anatomical specimens.
• to attend lectures, tutorials, seminars and courses of instruction in addition to those specified herein.
• to submit a dissertation of not more than ten thousand words on a directed topic and take such written oral and practical examinations as required and not less than one or more than two, three hour written papers. The dissertation shall be used as an indication of the candidate’s detailed knowledge of one aspect of anatomy and shall include an account of the techniques and the data obtained in gaining that knowledge. Alternatively the candidate may be required to take such written, oral and practical examinations as required and not less than 3 and not more than 4 written papers of three hours each.

The course including the examination session will extend over one full academic year and may be extended by one term to permit the completion of required practical work and the dissertation.

VETERINARY HISTOLOGY AND EMBRYOLOGY

Dr O’Shea

The course is designed to provide for advanced studies in animal histology and embryology, with special reference to the domestic animals. The course will involve studies on the microscopic structure and ultrastructure of animal cells, tissues and organs, with emphasis on comparative and functional aspects; comparative mammalian embryology; techniques used in the study of histology and embryology, and the ways in which different techniques can contribute to advances in knowledge and understanding.

Candidates will be required to develop competence in current techniques of tissue preservation and preparation, including histochemical and special techniques, microscopy and photomicrography.

Candidates may also be required —

• to attend all or part of the lectures and laboratory work in the Veterinary Histology and Embryology 260—202.
• to undertake directed reading and attend such other lectures, tutorials, seminars or classes as may be directed;
• to submit a dissertation of not more than ten thousand words on a directed topic. If such a dissertation is required, it will count for the purposes of examination as two written papers each of three hours duration, and will be used as an indication of the candidate’s detailed knowledge of one aspect of histology or embryology, and of the techniques and data which have contributed to gaining that knowledge.

The examination shall consist of such combination of written papers, oral and practical examinations and dissertation as shall bring the total to the
equivalent of not less than three and not more than four written papers, each of three hours.
The course, including the examination session, will extend over one year.

VETERINARY BIOCHEMISTRY

Dr McLean

This course is intended for the applicant who holds a BVSc or equivalent qualification and is designed to provide advanced studies of biochemical principles and techniques, particularly as they apply to the domestic animals.
The course of instruction will deal with the molecular components of the cell, metabolic processes and their control, and the integrated metabolism of the whole animal. It will include consideration of the biochemical basis of body processes, and applications in such field as nutrition, disease investigation, toxicology, performance, production, growth and development will be indicated. Instruction in laboratory work, using modern biochemical techniques and instrumentation, will be provided.
Candidates may be required:
• to attend all or part of the lectures and laboratory classes in Veterinary Biochemistry 260—203;
• to undertake directed reading and submit essays on specified topics;
• to attend such tutorials, seminars and other classes as directed;
• to undertake supervised practical work and submit any reports that may be required.
The examination will consist of oral and practical examinations, and not more than two written papers of three hours each. The assessment will also include any dissertation of essays required during the course.
The course, including the examination session, will extend over one full year.

VETERINARY PHYSIOLOGY AND PHARMACOLOGY

Course Co-ordinator: Dr Titchen, Mr Stewart

The course is intended for the applicant who holds a BVSc or equivalent qualification and is designed to provide advanced studies in physiology and/or pharmacology as they apply to the domestic animals.
The studies undertaken will require candidates to obtain an understanding of general physiological and/or pharmacological principles and to study at least one aspect in depth. This in depth study may be directed towards a particular species or specialised topics. Candidates will also be required to develop competence with techniques and instrumentation used in physiological and pharmacodynamic investigations.
Candidates may be required:
• to attend all or part of the lectures and laboratory classes in Veterinary Physiology (260—204, 304) and/or Veterinary Biochemistry (263—203) and/or Pharmacology (260—305);
• to undertake directed reading and submit essays on specified topics;
• to attend such other lectures, tutorials, seminars and other classes as may be directed;
• to undertake supervised practical work and submit any reports that may be required.
The examination shall consist of such combination of written papers, oral and practical examinations, essays and dissertation as shall bring the total to the equivalent of not less than three and not more than four written papers, each of three hours.
The course, including examination session, will extend over one full year.
VETERINARY CLINICAL SCIENCES

Professor Blood

The course is designed to provide advanced studies in selected areas of veterinary clinical sciences for persons who hold a BVSc or equivalent qualification. The areas of study are in the disciplines of medicine, surgery, radiology and animal reproduction and in the diseases and their management in individual species. Candidates will be required to participate in clinical management and investigation under supervision, to attend such lectures, tutorials, seminars, and clinicopathological conferences as directed and to submit reports, not more than two, of a maximum of 10,000 words each on topics assigned for investigation. The course will extend over one year if full time or two years if part time. Examination will be by progressive assessment throughout the course, not more than two written papers of three hours each and an oral examination.

VETERINARY EPIDEMIOLOGY AND PREVENTIVE MEDICINE

Dr Morley, Dr Hughes, Mr Arundel, Professor Blood

The course is designed for the applicant who holds a BVSc degree or equivalent qualification, and is intended to provide advanced study in epidemiological principles and techniques, and their application to the prevention of disease in animals. The course of instruction will deal with principles of epidemiology (in relation to infectious and non-infectious diseases), and with methods of epidemiological investigation and analysis. These principles will then be applied to the design and evaluation of disease control procedures and programmes, at both the single-unit level (herd health programmes and similar activities), and at the population level (national control programmes, veterinary public health and food hygiene activities). The training will also include the application of ecological, economic and sociological principles to the design of disease control systems under varying circumstances of livestock management; the application of administrative management techniques to veterinary administration; and methods of data processing, computing and statistical analysis which are relevant to the primary purposes of the course. There will be some opportunity for candidates to pay particular attention to aspects which will be most relevant to their future activities. Candidates may be required:• to attend part or all of the course in Veterinary Epidemiology and Preventive Medicine (Clinical Sciences 7), and associated material taught in other courses (Clinical Sciences 8, 9, 10 and 11);• to attend tutorials, seminars and other classes as directed;• to undertake practical work in the form of participation in the work of the Departments concerned, in so far as it is relevant to their training;• to undertake directed reading and submit essays and other assignments based on this reading and on the practical work undertaken;• to undertake the investigation of a topic related to the material imparted in the course (such as the analysis of available pre-existing epidemiological data on a disease), and to prepare a report on the findings obtained in the investigation. Candidates will be required to take up to two written examinations each of no more than three hours' duration, and such oral and practical examinations as may be required. Assessment of candidates will be by means of these examinations together with the results of exercises undertaken during the course. The course will extend over one full year, usually commencing on the first day of the first term. The last three months of the course will be used mainly for the investigation work described above.
BOOKLISTS

Hereunder are listed the books and other publications recommended for the various subjects. The subjects are arranged by Year and within each Year in the order in which the subjects appear in the Details of Subjects section of the Handbook. Only those subjects and units are listed which have supplied booklists. Departmental noticeboards should be consulted at the beginning of the academic year for any changes to the booklists.

At the end of most entries is an abbreviation signifying the status of the publication:

(PR) Essential preliminary reading
(R) Recommended reference
(T) Prescribed text
(L) A book which may be out of print, or may be used rarely or for a short time, or a prescribed text, of which multiple copies are available in the Library.

• An asterisk to the left of the book entry indicates that this book should be purchased as an essential text or reference.

BVSc Degree Course

FIRST YEAR

600-005 ANIMAL BIOLOGY (VETERINARY COURSE)

For those who have not studied HSC biology:

*Buchsbaum R *Anima l Without Backbones 2nd ed 1948 Chicago UP (T)
Schmidt-Nielsen K *Animal Physiology Adaptation and Environment 1975 CUP (T)

600-006 PLANT BIOLOGY (VETERINARY COURSE)


600-007 BIOLOGY (GENETICS AND ECOLOGY) (VETERINARY COURSE)

For those who have not studied HSC Biology:

*Biological Science: The Web of Life Sections 1 2 6 7 9 10 & 11 2nd ed Aust Academy Science (PR)
*Merrell D J *An Introduction to Genetics 1975 Norton (T)

610-006 CHEMISTRY (VETERINARY COURSE)

*Stranks D R et al *Chemistry: A Structural View MUP (PR)
*Aylward G H and Findlay J V (Eds) *St Chemical Data 2nd ed 1974 Wiley (T)
*Olver N H *Experiments in Inorganic Chemistry; *Experiments in Physical Chemistry; *Experiments in Organic Chemistry 1979 School of Chemistry (T)
*Companion A L *Chemical Bonding 1964 McGraw-Hill (T)

*4
200-111 AGRONOMY

Aitken Y Tribe D E Tulloh N M and Wilson J H *Agricultural Sciences* metric ed 1975 Cheshire (R)
Leeper G W *Introduction to Soil Science* 4th ed 1964 MUP (R)
Parsons W T *Noxious Weeds of Victoria* 1973 Inkata (R)
Molnar I (Ed) *A Manual of Australian Agriculture* 3rd ed 1974 Heinemann (R)

640-008 PHYSICS (VETERINARY COURSE)

Gamow G *Matter Earth and Sky* Prentice-Hall (PR)
*MacDonald S G C and Burns D M Physics for the Life and Health Sciences* Addison-Wesley (T)

SECOND YEAR

200-211 ANIMAL PRODUCTION 1 (VETERINARY COURSE)

Relevant sections of the following books are useful supplements to lecture material presented and also may be of general interest to students

GENERAL AGRICULTURE

Aitken Y Tribe D E Tulloh N M and Wilson J H *Agricultural Science* 1966 Cheshire (R)
Alexander G and Williams O B *The Pastoral Industries of Australia* 1973 SUP (R)
Leeper G W (Ed) *The Australian Environment* 1970 MUP (R)
Molnar I (Ed) *A Manual of Australian Agriculture* 1974 Heinemann (R)

SHEEP AND WOOL

Belschner H G *Sheep Management and Diseases* 1976 Angus and Robertson (R)
Harmsworth T B and Page-Sharp J *Sheep and Wool Classing* 1970 Cheshire (R)
Owen J B *Sheep Production* 1976 Balliere (R)
Ryan L D *Sheep in Australia* 1973 Angus and Robertson (R)
Tribu D E and Coles G J R *Prime Lamb Production* 1966 Cheshire (R)

BEEF CATTLE

Beattie W A *Beef Cattle Breeding and Management* 1973 Pastoral Review Aust (R)
Cole V G *Beef Production Guide* 1970 Graziers Assoc NSW (R)
Preston T R and Willis M B *Intensive Beef Production* 1970 Pergamon (R)
Yeates N T M and Schmidt P J *Beef Cattle Production* 1974 Butterworths (R)

DAIRY CATTLE

Laffan G T (Ed) *Dairy Farming in Australia* 1964 Dept Prim Ind Melb (R)
Lamond D R and Campbell E A *Dairy Cattle Husbandry* 1968 Angus and Robertson (R)

PIGS

Davidson H R *The Production and Marketing of Pigs* 1966 Longmans (R)
English P Smith W and MacLeay D *The Sow — Improving Her Efficiency* 1977 Farming Press (R)
Krider J L and Carroll W E *Swine Production* 1971 McGraw-Hall (R)
Thornton K *Practical Pig Production* 1973 Farming Press (R)

POULTRY

Card L E and Nesheim M C *Poultry Production* 1972 Lea and Febiger (R)
Feltwell R and Fox S *Practical Poultry Feeding* 1978 Faber (R)
Nowland W J *Modern Poultry Management in Australia* 1978 Rigby (R)
ANIMAL GENETICS AND BREEDING
Dolling C H S *Breeding Merinos* 1970 Rigby (R)
Falconer D S *Introduction to Quantitative Genetics* 1975 Longmans (R)
Lerner I M and Libby W J *Heredity Evolution and Society* 1976 Freeman (R)
Lush J L *Animal Breeding Plans* 1945 Iowa State Univ Press (R)

STATISTICS
Sokal R R and Rohlf F J *Biometry* 1969 Freeman (R)

260-201 VETERINARY ANATOMY
Hildebrand M *Analysis of Vertebrate Structure* 1974 Wiley (R)
de Lahunta A *Veterinary Neuroanatomy and Clinical Neurology* 1977 Saunders (R)
Miller M *Anatomy of the Dog* 1954 Saunders (R)

260-202 VETERINARY HISTOLOGY AND EMBRYOLOGY
Bloom W and Fawcett D W *A Textbook of Histology* 1975 Saunders (T)
or
Ham A W *Histology* 1974 Lippincott (T)
Arey L B *Developmental Anatomy* 1974 Saunders (T)

260-203 VETERINARY BIOCHEMISTRY
Banks P Bartley W and Birt L M *The Biochemistry of the Tissues* 2nd ed 1976 Wiley (R)
or
Conn E E Stumpf P K *Outlines of Biochemistry* 4th ed 1976 Wiley (T)
or
Harper H A *Physiological Chemistry* 16th ed 1977 Lange (R)
or
Lehninger A L *Biochemistry* 2nd ed 1975 Worth (T)
or
or
or
Stryer L *Biochemistry* 1st ed Freeman (T)

260-204 VETERINARY PHYSIOLOGY 1
*Brobeck J R (Ed) *Best and Taylor's* *Physiological Basis of Medical Practice* 9th ed 1973 Williams & Wilkins (T)
or
*Guyton A C *Basic Human Physiology* 2nd ed 1977 Saunders (T)
or
THIRD YEAR

200-311 ANIMAL PRODUCTION 2 (VETERINARY COURSE)

Relevant sections of the following books are useful supplements to lecture material presented and also may be of general interest to students.

RUMINANT NUTRITION
Church D C  *Digestive Physiology and Nutrition of Ruminants* 1972 Corvallis (R)

NON RUMINANT NUTRITION
Cole D J A (Ed)  *Pig Production* 1972 Butterworths (R)
Pond W G and Maner J H  *Swine Production in Temperate and Tropical Environments* 1974 Freeman (R)
Scott M L Nesheim M C and Young R J  *Nutrition of the Chicken* 1976 M L Scott and Assoc (R)
Whittemore G T and Elsley F W N  *Practical Pig Nutrition* 1976 Farming Press (R)

APPLIED ANIMAL NUTRITION
Agricultural Research Council (ARC)  *The Nutrient Requirements of Farm Livestock: Technical Reviews Nos 1-3* ARC (R)
Crampton A E and Harns L E  *Applied Animal Nutrition* 1969 Freeman (R)
Cullison A E  *Feeds and Feeding* 1975 Reston (R)
National Research Council (NRC)  *The Nutrient Requirements of Domestic Animals Nos 1-10* Nat Acad of Sciences (R)

GROWTH AND BODY COMPOSITION
Berg R T and Butterfield RM  *New Concepts of Cattle Growth* 1976 SUP (R)
Hammond J (Ed)  *Progress in Physiology of Farm Animals Volume 2* 1954 Butterworths (R)
Lodge G A and Lamming G E  *Growth and Development of Mammals* 1968 Butterworths (R)

ANIMAL BEHAVIOUR
Alcock J  *Animal Behaviour* 1975 Sinaver (R)
Manning A  *Introduction to Animal Behaviour* 1972 Arnold (R)

FARM MANAGEMENT ECONOMICS
Bishop C E and Toussaint W D  *Introduction to Agricultural Economic Analysis* 1958 Wiley (R)
Bureau of Agricultural Economics Canberra  *Rural Industry in Australia* 1975 Aust Govt Publ Service (R)
Castle E N and Becker M H  *Farm Business Management* 1962 Macmillan (R)

270-301 VETERINARY MICROBIOLOGY

Davis B D et al  *Microbiology* 2nd ed 1973 Heober Med Div (T)

270-302 VETERINARY PARASITOLOGY

270-303 VETERINARY PATHOLOGY

*Walter J B and Israel M S  *General Pathology* 4th ed 1974 Churchill (T)
*Wells R J H and Jabara A G  *Practical General Pathology Experiments and Atlas 1st ed 1972 MUP (T)

260-304 VETERINARY PHYSIOLOGY 2

*Broebeck J R (Ed)  *Best and Taylor's *Physiological Basis of Medical Practice* 9th ed 1973 Williams & Wilkins (T)
*Guyton A C  *Basic Human Physiology* 2nd ed 1977 Saunders (T)
*Goodman L S and Gilman A (Eds)  *The Pharmacological Basis of Therapeutics* 5th ed 1975 Macmillan (T)

260-305 VETERINARY PHARMACOLOGY

*Jones L M Booth N H and McDonald L E (Eds)  *Veterinary Pharmacology and Therapeutics* 4th ed 1977 Ames Iowa State UP (T)

FOURTH AND FIFTH YEARS
CLINICAL SCIENCES 1-13

Archibald J (Ed)  *Canine Surgery* 2nd ed 1974 Amer Vet Publ (T)
Douglas S W and Williamson H D  *Principles of Veterinary Radiography* 2nd ed 1972 Bailliere Tindall (T)
Hall L W  *Veterinary Anaesthesia and Analgesia* 7th ed 1971 Bailliere Tindall & Cassell (T)
Hofstad MS et al  *Diseases of Poultry* 6th ed 1972 Iowa State UP (T)
Jubb K V and Kennedy P C  *Pathology of Domestic Animals* 2nd ed 1970 Academic (T)
Kirk R W  *Current Veterinary Therapy IV or V* 1971 or 1974 Saunders (T)
Knecht C D et al  *Fundamental Techniques in Veterinary Surgery* 1975 Saunders (T)
Medway W et al  *Textbook of Veterinary Clinical Pathology* 1969 Williams & Wilkins (T)
Oehme F W and Prier J (Ed)  *Textbook of Large Animal Surgery* 1974 Williams & Wilkins (T)
Piermattei D L and Greely R G  *An Atlas of Surgical Approaches to the Bone of the Dog and Cat* 1966 Saunders (T)
Roberts S J  *Veterinary Obstetrics and Genital Diseases* 2nd ed 1971 Author (T)

Brown Prior Anderson Pty Ltd 5 Evans Street Burwood 3125
Library Digitised Collections

Author/s:  
The University of Melbourne

Title:  
Handbook: Faculty of Veterinary Science 1979

Date:  
1979

Persistent Link:  
http://hdl.handle.net/11343/128895