



**University College Dublin
National University of Ireland, Dublin**

Veterinary Medicine

Session 2002/2003

Dates of Terms for MVB Course

Session 2002/2003

Semester 1: (Michaelmas Term)	Lecture Term	16 September – 06 December
	Revision	07 December – 13 December
	Examinations	14 December – 21 December

Semester 2: (Hilary/Trinity Terms)	Hilary Lecture	
	Term	06 January – 01 March
	Break	03 March – 18 March
	Trinity Lecture	
	Term	24 March – 17 April
	Revision	21 April – 26 April
Examinations	28 April	

Easter Sunday: 20 April, 2003

Autumn Repeat Examinations 11 August, 2003

Timetables

Timetables of lectures, practicals, tutorials etc. will be available at the commencement of the session from the departmental offices.

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Degree of Bachelor of Veterinary Medicine (MVB)

General Information

1. This degree enables the holder to be registered on the Register of the Veterinary Council. Only persons so registered are entitled to practise as veterinary surgeons in the Republic of Ireland. Holders of this degree, provided they are EU nationals, are also, under the EU Directives, entitled to register and practise in the United Kingdom and in all other EU countries.
2. The programme of study for the degree extends over a period of five years. Courses are taken at the Faculty of Veterinary Medicine, University College, Belfield; and at the University farm at Lyons Estate, Newcastle, Co. Dublin.
3. The number of new entrants to the First Veterinary Medicine Year will be limited. As the number of applicants far exceeds the number of places available, places are offered strictly on the basis of academic achievement.
4. Students intending to proceed to this degree must comply with the regulations regarding entry to the University.
5. Students are required to become proficient in the handling and management of a variety of animal species and are allocated an appropriate programme of farm and companion animal experience up to a maximum of ten weeks, following interview. This experience should be obtained between the Christmas vacation of the first veterinary year and the end of the Easter break of the second veterinary year. Students are designated a staff supervisor who approves the farm or animal facilities proposed. The completion of this requirement to the satisfaction of the student's supervisor is a prerequisite for passing the Animal Husbandry and Production examination.
6. Students are required to have passed the University Examinations in full before being permitted to proceed to the courses of the following year. The University Examinations will be held in the Summer and Supplemental Examinations will be held in the Autumn for those students who fail in the Summer and for those students who have special permission from the President. Students who fail a Supplemental Examination will be interviewed by the Faculty's Student Progress Committee.
7. Each University Examination must be passed within two years of the date of entry to the course for that examination. Students who obtain a pass mark in the First Veterinary Medicine Examination in one subject in the Summer will be exempt from further examination in that subject in the Autumn examination of the same year. Students who fail in either subject in the First Veterinary Medicine Examination must present in both subjects at the next attempt. A candidate who fails with less than 40% in both subjects in the Autumn examination will be excluded from the course.

In the Second, Third and Fourth Veterinary Examination, a candidate who obtains a pass mark in a subject or subjects will be exempt from further examination in that subject or subjects, provided that a minimum of 40% is attained in each of the other subjects. In exceptional circumstances such as illness the examinations board may exempt individual students from this rule.

Students who pass in any subject or subjects of the Final Veterinary Examination will be exempted in that subject or subjects, the exemption to hold for a period of two years.

Students who fail a subject in the Final Veterinary Examination in the Summer may be required to attend the University Veterinary Hospital prior to taking that examination in the Autumn of that year.

In special circumstances, i.e. on the grounds of ill health or for some other grave reason, the Faculty may recommend the extension of the one-year rule and of the two-year rule.

8. Students who do not pass one or more subjects of the University Examinations may be required to re-attend courses before being permitted to present for the examination in the following Summer.
9.
 - (i) Before sitting for the Final Veterinary Medicine Examination, the candidate must produce a certificate or certificates showing that he/she has spent a minimum of 24 weeks' *Seeing Practice*, preferably commencing at the Easter vacation of his/her third year.
 - (ii) At the beginning of the second semester, the candidate must produce a certificate or certificates showing that he/she has spent a minimum of 20 weeks' *Seeing Practice*.
 - (iii) The student is required to obtain experience in each of the following types of practice, all of which shall count towards the mandatory period:
 - (a) Farm Animal Practice – 5 weeks minimum;*
 - (b) Small Animal Practice – 5 weeks minimum;*
 - (c) Equine Practice – 3 weeks minimum.*
 - (iv) The student is encouraged to gain experience in a veterinary investigation centre or an approved laboratory. Up to four weeks will count towards the mandatory *Seeing Practice* period.
 - (v) Attendance at the University hospital/clinic will count for two weeks of the *Seeing Practice* period.
 - (vi) Holders of Training Scholarships will be allowed credit for up to nine weeks *Seeing Practice* for time spent at an approved centre.
 - (vii) As part of *Seeing Practice*, the student shall be required to spend two weeks at export meat plants following the completion of the fourth year.
 - (viii) During the mandatory period of *Seeing Practice*, the student must keep a diary which will provide information on cases seen. The student shall be required to obtain certificates from veterinary practitioners or in the case of export meat plants from a Veterinary Inspector of the Department of Agriculture, Food and Forestry to cover the minimum period.
9. **New Regulations to apply to third year class in 2000/2001 and each class thereafter.**
 - (i) During the third, fourth and fifth years of the course, students are required to complete a minimum period of 24 weeks of practical extra-mural experience. This experience is to be spread over the three years as follows:

* It is recommended that the student gain experience in a number of practices. The practices selected should deal predominantly with the species indicated in (a), (b) and (c).

Third year (including Easter and Summer vacations)	8-10 weeks suggested (clinical)
Fourth year (Christmas, Easter and Summer vacations)	10-12 weeks (clinical) 2 weeks (meat plant and DVO)
Final year (Christmas and Easter vacations)	2-4 weeks (clinical)

- (ii) Students are assigned to a Clinical Tutor in third year. The 24 clinical weeks* to be spent with practising veterinary surgeons should include a minimum of:
- 2 weeks equine practice
 - 4 weeks small animal practice
 - 6 weeks farm animal or mixed practice.
- (iii) The remainder of the time can be spent in practices, hospital, laboratories, etc. selected by the individual student and approved in advance by the Faculty.
- (iv) Each student will spend one full week in an approved meat plant, one full week in a District Veterinary Office (DVO) and one full week in a PDSA Centre.
- (v) Up to 6 weeks may be spent overseas (up to 15 weeks with the approval of the Chair of the Clinical Division).
- (vi) Certification of Attendance:
- (vii) For each placement a progress sheet (Form PS/100) must be signed by the senior supervising veterinary surgeon certifying that a specified period of study has been completed and submitted to the Faculty Office as soon as possible after the end of the placement.
10. Students are required to attend their practicals and clinics. Failure to do so without satisfactory explanation to the Head of the Department will be notified to the Registrar. A student whose attendance, after formal warning by the Registrar, continues to be unsatisfactory, may be debarred by the Academic Council from presenting for examination.

* A week is between 5 and 7 days, dependent on the normal working week of the practice/establishment.

Examination Subjects

First University Examination in Veterinary Medicine

- VAN 1010 Veterinary Anatomy I (including Histology and Embryology)
VPB 1020 Veterinary Physiology and Biochemistry I (including Chemistry,
Applied Biophysics and Molecular and Cell Biology)

Second University Examination in Veterinary Medicine

- VAN 2010 Veterinary Anatomy II (including Histology and Embryology)
AHP 2050 Animal Husbandry and Production
VPB 2020 Veterinary Physiology and Biochemistry II
VAN 2040 Applications and Integration

Third University Examination in Veterinary Medicine

- AHP 3030 Animal Husbandry and Production II (Old Curriculum only)
VMP 3010 Veterinary Microbiology
VMP 3020 Veterinary Parasitology
SACS 3050 Small Animal Clinical Studies I
LACS 3040 Large Animal Clinical Studies I
VSY 3070 Veterinary Surgery I
SACS 3060 Veterinary Pharmacology and Toxicology I

Fourth University Examination in Veterinary Medicine

- VPY 4010 Veterinary Pathology
SACS 4020 Veterinary Pharmacology and Toxicology
LACS 4030 Large Animal Clinical Studies

MVB Degree Examination

- SACS 5010 Small Animal Medicine
VSY 5020 Veterinary Surgery
LACS 5030 Large Animal Medicine
LACS 5040 Clinical Reproduction

Courses of Instruction For The Degree of MVB

First Year

AHP 2050 Animal Husbandry and Production

The course in Animal Husbandry and Production consists of a series of animal handling practicals carried out both at the Veterinary School and Lyons Research Farm to facilitate student learning of appropriate procedures to approach, handle, restrain and carry out routine chores on food producing, equine and companion animals. This material is examined in the latter part of the second year course.

VAN 1010 Veterinary Anatomy I (including Histology and Embryology)

The anatomy course relates the structure and development of mammalian body form to its function. The course is based around the comparative anatomy of the principal domestic species, and adopts a topographical and systematic approach. Gross anatomy practicals are based around the dissection of the dog, horse, and ruminant species. Examples of material from other species are also provided. Histology practicals cover the microscopic structure of cells and tissues. These are also structured around the major body systems. The course emphasises the anatomy of greatest clinical and pathological relevance. It includes examples of radiographic images, and brief examples of pathological conditions in which abnormalities of anatomy are found. In the first year, it comprises 3 modules:-

1. An introduction to basic anatomy (including embryology), cells, and tissues.
2. The comparative anatomy, development, and histology of the thorax and its related organs.
3. The comparative anatomy, development, and histology of the abdomen and pelvis and their related organs.

VPB 1020 Veterinary Physiology and Biochemistry I (including Chemistry, Applied Biophysics and Molecular and Cell Biology).

The Veterinary Physiology course will deal with the following: cellular functions, energy metabolism, digestion, the cardiovascular and respiratory systems in domestic animals.

The Veterinary Biochemistry course will commence with a short course in Chemistry, designed as an introduction to biochemistry. The biochemistry course will include the following topics: enzymology, the biochemistry relating to the digestion of carbohydrates, fats, proteins and with the intermediary metabolism of these compounds, the biochemistry of vitamins, minerals and water. Courses in (a) molecular & cell biology and (b) veterinary applied biophysics will be presented, integrated where appropriate, with the teaching of Veterinary Physiology & Biochemistry and Veterinary Anatomy.

Practical classes will be held in Ballsbridge and at Lyons Research Farm.

VAN 0000 Veterinary Information Technology and Computing

This course is jointly delivered by all of the pre-clinical departments with the assistance of the computing services. It is intended as a practical introduction to computing, information management, and the use of computers in presenting information. There will be seven sessions of 2 hours duration. The skills acquired in this course will be required for many aspects of learning and computer use throughout the undergraduate course.

VAN 2040 Applications and Integration

This course involves the use of cases or problems on which students work in groups. Each problem stimulates small group discussion and student research on the basic and clinical sciences relevant to that problem. The problems require an inter-disciplinary approach and the students commence the process of applying and integrating their knowledge to solve them.

The first year examination marks will be carried forward to form part of an aggregate mark for this subject in second year.

LACS 3010 Veterinary Statistics

The course in Statistics deals with the collection and analysis of data relevant to the epidemiological investigation of disease and the interpretation of biological data of veterinary relevance.

Second Year

VAN 2010 Veterinary Anatomy II (including Histology and Embryology)

The second year course in veterinary anatomy completes the regional approach to the study of comparative anatomy in domestic animals begun in first year. The comparative anatomy of the head is covered including its overall development and the development of particular structures within the head. The histology of these structures is also studied. This is followed by a course on the functional anatomy of the limbs with particular emphasis on athletic species. The second half of the second semester is devoted to courses on radiographic anatomy and imaging, and the anatomy of exotic animals. The latter is presented in a self-learning format with students carrying out projects under supervision, and exchanging information.

AHP 2050 Animal Husbandry and Production

This course consists of lectures, tutorials, laboratory and companion animal practical classes given at Ballsbridge and farm animal practicals, which take place at the University Research Farm at Lyons.

The aim of the course is to cover the basic components of animal husbandry and production and give the students current practical knowledge and recommendations on how to feed, breed, house and manage farm and companion animals. In formal lectures and tutorials emphasis is placed on understanding the principals of genetics, nutrition, behaviour, reproduction, welfare and practical aspects of the husbandry of farm and companion animals. Alternative farming systems are also covered, as are economics and welfare implications of the management of all species. Laboratory sessions deal with the use of modern diagnostic techniques in genetics, nutrition, reproduction and dairy technology to help solve practical problems at farm level. Animal practicals involve identification of horses, assessing production systems, determination of reproductive status of farm animals, assessment of milking machine efficiency and investigating the behaviour, care and welfare of farm and companion animals. Visits are made to specific farms to help the student evaluate the efficiency of production systems, determine their strengths and weaknesses and make practical recommendations on how to improve efficiency.

VPB 2020 Veterinary Physiology and Biochemistry II

The course in veterinary physiology will consist of a general introduction (i) to systemic physiology with emphasis on special developments encountered in animals of veterinary importance and on features basic to animal husbandry and clinical subjects; and (ii) to whole animal physiology in relation to energy metabolism and nutrition, to the environment and to meat, milk and egg production.

The course in veterinary biochemistry will be integrated with that of physiology (where appropriate). It will consist of a general introduction to the composition and properties of body fluids; and the roles and metabolism of vitamins, minerals and water. Emphasis will be given to special mechanisms in animals of veterinary importance and to features basic to animal husbandry and clinical subjects.

VAN 2040 Applications and Integration

This course is a continuation of the first year programme and uses clinical cases and problems on which students work in small groups.

Physical Examination and History Taking

This short course will introduce students to the principles underpinning professional veterinary conduct, clinical diagnosis based on history taking and clinical examination, and the recording and use of the veterinary medical record. Students will engage in exercises to equip them to accurately obtain and record a patient history and to conduct and record physical examinations of dogs, cats, horses and cattle using a problem based veterinary medical recording system.

Third Year

New Curriculum

The first semester consists of lectures, tutorials and practical classes on:

1. The principles of bacteriology, virology, parasitology, pathology, medicine and surgery.
2. Veterinary immunology
3. Veterinary epidemiology

In the second semester the study of animal disease on a systems basis will commence. This will involve coordinated teaching on the agents which cause disease in each system, the pathogenesis of the diseases and their diagnosis and management.

The following systems/topics will be covered

1. Diseases of the haemopoietic system
2. Diseases of the cardiovascular system
3. Diseases of the respiratory system
4. Diseases of the central nervous system
5. Diseases of the skin and mammary gland
6. Pharmacology and toxicology
7. Metabolic diseases

AHP 3030 Animal Husbandry and Production II (Old Curriculum only)

This course consists of lectures, tutorials, laboratory and companion animal practical classes given at Ballsbridge and farm animal practicals which take place at the College's Field Station at Lyons. The aim of the course is to give the student current practical knowledge and recommendations on how to feed, breed, house and manage farm and companion animals. Topics covered in lectures include beef, dairy, sheep, goat and poultry production, and practical aspects of the husbandry of companion animals. Alternative farming systems are also covered as are economics and welfare implications of the management of all species. Laboratory sessions deal with the use of modern diagnostic techniques in genetics, nutrition, reproduction and dairy technology to help solve practical problems at farm level. Animal practicals involve assessing production systems, determination of reproductive status of farm animals, assessment of milking machine efficiency and investigating the behaviour, care and welfare of farm and companion animals. Visits are made to specific farms to help the student evaluate the efficiency of production systems, determine their strengths and weaknesses and make practical recommendations on how to improve efficiency.

VMP 3010 Veterinary Microbiology

The course deals with micro-organisms pathogenic for animals, the diseases they produce and their public health significance. The course comprises lectures and practical classes.

The lecture course covers the following topics:

- General principles of veterinary bacteriology, mycology and virology.
- Infectious diseases of animals caused by bacteria, including chlamydiae and rickettsiae, mycoplasmas, fungi, viruses and prions.
- For each infectious disease, emphasis is placed on its aetiology, epidemiology, pathogenesis, clinical signs, diagnosis and control.
- Zoonotic diseases.

Students carry out practical procedures relevant to veterinary microbiology:

- *Bacteriology*: microscopy, culture, use of biochemical tests for identification, sterilization and disinfection, antibiotic susceptibility testing.
- *Mycology*: microscopy, culture, identification.
- *Virology*: electron microscopy, tissue culture, egg inoculation.
- *Immunology*: serological tests and their interpretation, vaccines and vaccination.

In the second semester the course deals with the infectious agents which cause diseases of the haemopoietic, cardiovascular, respiratory and central nervous systems, and the skin and mammary gland.

VMP 3020 Veterinary Parasitology

The aim of the course is to enable students to acquire an understanding of parasitic diseases of animals and their public health significance. Lectures, seminars and tutorials over two semesters deal with diseases caused by helminths, arthropods and protozoa.

- The epidemiology, together with pathogenesis, economic importance, diagnosis and control of parasitic diseases are presented.
- In practical classes, students carry out routine laboratory diagnostic techniques and learn to recognize parasites of clinical importance.
- In tutorials, small groups of students are encouraged to consider contemporary problems in parasitology and to discuss them in an independent and critical manner.
- Individual students are assigned a project on which they make a presentation to the seminar group.

In the second semester the course deals with the infectious agents which cause diseases of the haemopoietic, cardiovascular, respiratory and central nervous systems, and the skin.

VPY 4010 Veterinary Pathology I

This course encompasses general pathology in companion and farm animals. Lectures are supplemented by practical classes and demonstrations in gross, microscopic and clinical pathology. The course is designed to give the student a thorough understanding of disease mechanisms.

This course consists of lectures and tutorials in medicine of the different body systems with emphasis on pathophysiology, clinical signs of organ dysfunction, diagnostic methods, diagnosis and principles of treatment of diseases of companion animals (dogs, cats, birds and others).

An integrated course in systemic and clinical pathology is given over the two semesters of the third year. Lectures and laboratory practicals are supplemented by tutorials and demonstrations. Morphological and pathophysiological aspects of disease are related to clinical findings. The course is closely co-ordinated with the diagnostic service provided by the Department of Veterinary Pathology.

Practical instruction in laboratory medicine demonstrates clinical laboratory techniques applied to specimens submitted from animal patients. Results are interpreted and discussed.

In the second semester the course deals with the pathology of diseases of the haemopoietic, cardiovascular, respiratory and central nervous systems, the skin and the mammary gland.

SACS 3050 Small Animal Clinical Studies I

This course consists of lectures and tutorials in medicine of the different body systems with emphasis on pathophysiology, clinical signs of organ dysfunction, diagnostic methods, diagnosis and principles of treatment of diseases of companion animals (dogs, cats, birds and others).

Body systems/topics covered include:

1. Diseases of the haemopoietic system
2. Diseases of the cardiovascular system
3. Diseases of the respiratory system
4. Diseases of the central nervous system
5. Diseases of the skin and mammary gland.

LACS 3040 Large Animal Clinical Studies I

The course in large animal clinical studies given in the third year consists of lectures, tutorials and practical classes on: (i) clinical methodology, hygiene and safety, (ii) veterinary epidemiology, (iii) clinical medicine including management of clinical cases.

Body systems/topics covered include:

1. Diseases of the haemopoietic system
2. Diseases of the cardiovascular system
3. Diseases of the respiratory system
4. Diseases of the central nervous system
5. Diseases of the skin and mammary gland
6. Toxicology
7. Metabolic diseases

VSY 3070 Veterinary Surgery I

Lectures are given in the principles of surgery, introduction to diagnostic imaging and elements of systematic surgery in small and large animals. There is a series of practical classes in aseptic surgical technique.

Body systems/topics covered include:

8. Diseases of the cardiovascular system
9. Diseases of the respiratory system
10. Diseases of the central nervous system
11. Diseases of the skin and mammary gland.

SACS 3060 Veterinary Pharmacology and Toxicology I

The course is designed to present those aspects of the various drugs sciences of most relevance to veterinary needs.

1. Systematic pharmacology deals with drugs according to the body system or function on which they have their greatest effect
2. Chemotherapeutics describes drugs used in the management of diseases of all types
3. Toxicology addresses the undesirable actions of drugs and other chemicals and describes the principles of treatment of poisoning.

Fourth Year

VPY 4010 Veterinary Pathology II

An integrated course in systemic and clinical pathology is given over the three terms of the Fourth Year. Lectures and laboratory practicals are supplemented by tutorials and demonstrations. Morphological and pathophysiological aspects of disease are related to clinical findings. The course is closely co-ordinated with the diagnostic service provided by the Department of Veterinary Pathology.

Practical instruction in laboratory medicine demonstrates clinical laboratory techniques applied to specimens submitted from animal patients. Results are interpreted and discussed.

VMP 0000 Veterinary Microbiology II

This course deals with the laboratory diagnosis and some applied aspects of the treatment, prevention and control of bacterial, mycotic, viral and prion diseases of domesticated animals.

VMP 0000 Veterinary Parasitology II

This course deals with the laboratory diagnosis and some applied aspects of the treatment, control and prevention of parasitic diseases in domesticated animals.

SACS 4020 Veterinary Pharmacology and Toxicology

The course is designed to present those aspects of the various drugs sciences of most relevance to veterinary needs. It is presented in the following sequence via lectures, seminars, tutorial demonstrations and practical sessions.

1. The basic pharmacology of how drugs act, how their actions are measured, how they reach their sites of action and how they are regulated by law.
2. Systematic pharmacology deals with drugs according to the body system or function on which they have their greatest effect.
3. Chemotherapeutics describes drugs used in the management of infectious diseases of all types.
4. Toxicology addresses the undesirable actions of drugs and other chemicals and describes the treatment of poisoning.

LACS 4030 Large Animal Clinical Studies I

The course in Large Animal Clinical Studies given in the Fourth Year consists of lectures, tutorials and practical classes on: (i) clinical methodology, (ii) clinical reproduction, (iii) poultry medicine, (iv) food hygiene and safety, (v) veterinary public health, and (vi) epidemiology and population medicine.

Students attend practical clinical sessions in the Veterinary Teaching Hospital. Clinical training is also provided on co-operating farms where disease problems are investigated both as individual cases and as herd or flock problems. Supervised visits are made to premises engaged in the production of foods of animal origin.

SACS 5010 Small Animal Clinical Studies I

This course consists of lectures and tutorials in medicine of the different body systems with emphasis on pathophysiology, clinical signs of organ dysfunction, diagnostic methods, diagnosis and principles of treatment of diseases of companion animals (dogs, cats, birds and others). Lectures are also given in clinical nutrition, infectious diseases and behaviour.

VSY 5020 Veterinary Surgery I

Lectures are given in the principles of surgery, introduction to veterinary anaesthesia, introduction to diagnostic imaging and elements of systematic surgery in small and large animals. There are seminars in anaesthesia and radiology and a series of clinical presentations. There is a series of practical classes in aseptic surgical technique.

Clinical instruction is given in the clinic and hospital. In the Fourth and Fifth Year, students are on rota to attend the clinic and hospital at weekends during term.

Fifth Year

SACS 5010 Small Animal Clinical Studies II

The lectures in the second year of Small Animal Clinical Studies consist of problem orientated lectures in small animal medicine. In addition, there are lectures in clinical nutrition, oncology, toxicology, geriatric and paediatric medicine. Students are supervised in small groups in the clinic and hospital where they have responsibility for the care and welfare of hospital patients. Students are rostered for out-of-hours and emergency care during term time.

LACS 5030 Large Animal Clinical Studies II

Lectures, tutorials and practicals are given on (i) the diagnosis, treatment and prevention of diseases of cattle, sheep, horses, pigs, goats and deer; (ii) clinical reproduction in all species of domestic animals; (iii) herd and flock medicine; (iv) state medicine; (v) jurisprudence and ethics; and (vi) practice management. There are daily clinical sessions which students attend on a rota basis in small groups for instruction in the diagnosis, treatment and prevention of diseases in large animals. Clinical sessions take place in the Veterinary Teaching Hospital as well as on co-operating farms and in a farm animal practice.

VSY 5020 Veterinary Surgery II

The course of lectures covers all the body systems in small and large animals and diagnostic imaging and veterinary anaesthesia. Teaching in case management, aseptic technique and operating room procedure, diagnostic imaging and veterinary anaesthesia is given within the Veterinary Teaching Hospital where students assist on rotation in veterinary anaesthesia, veterinary diagnostic imaging, large animal surgery and small animal surgery. Training is supplemented by seminars and practical classes. Rostered patient care before and after classes and on weekends forms part of the learning experience.

Postgraduate Degrees

Degree of Master of Animal Science

Degree of Master of Science

Degree of Master of Veterinary Medicine

Degree of Doctor of Philosophy

Postgraduate Study and Research

Candidates for the degrees of MVM, MAnSc, MSc, PhD shall fulfil the University regulations and requirements regarding these degrees.

Application Procedure

The application of a candidate shall be submitted for approval, through the Dean, to the Faculty of Veterinary Medicine, by the Professor or full-time statutory academic staff member with the approval of the relevant Professor, under whose direction the student is to work.

The application shall be submitted in writing to the Dean and shall be circulated to the Faculty prior to the meeting at which the application is presented for acceptance. The application shall provide information regarding:

- (a) The candidate's academic qualifications and fitness to undertake postgraduate studies;
- (b) The proposed research project and course of study;
- (c) The availability of facilities for the proposed research;
- (d) The name(s) of the supervisor(s).

Candidates from outside Ireland and Great Britain will be required to provide evidence of a satisfactory standard in English.

The names of the proposed extern examiners shall be submitted in writing to the Dean and shall be circulated, in advance, to the Faculty prior to the meeting at which the names are presented.

Degree of Master of Animal Science (MAnSc)

Admission Requirements

A candidate for the MAnSc degree, in the Faculty of Veterinary Medicine, would normally be a holder of a primary degree with First or Second Class Honours in a subject of relevance to veterinary medicine and shall present such evidence in this regard as will satisfy the Faculty.

Course Regulations

Candidates shall carry on research for a minimum period of three terms and shall take such courses as may be prescribed by the Faculty. Nine terms are allowed in which to complete the degree from the date of acceptance. Candidates who have not completed the degree within that period must re-apply to the Faculty. Candidates shall be required to take an oral examination on the subject matter of their thesis unless exempted by the examiners.

Degree of Master of Science (MSc)

Admission Requirements

A candidate for the MSc degree must have at least a Second Class Honours primary degree or equivalent.

Course Regulations

The degree of Master of Science may be awarded by thesis. Candidates shall carry out research for a minimum period of three terms. Nine terms are allowed in which to complete the degree from the date of acceptance. Candidates may be required to pass an examination on the subject matter of the thesis if the examiners so decide.

Degree of Master of Veterinary Medicine (MVM)

Admission Requirements

Holders of a degree in veterinary medicine, registerable with the Veterinary Council, shall be eligible to obtain the Degree of Master of Veterinary Medicine (MVM). The Faculty may, at its discretion, recommend that the holder of a degree in Veterinary Medicine, not registerable with the Veterinary Council, be deemed eligible to obtain the Degree of MVM.

Course Regulations

Candidates for the MVM degree shall carry on research for a minimum period of three terms. Nine terms are allowed in which to complete the degree from the date of acceptance. Candidates who have not completed the degree within that period must re-apply to the Faculty. Candidates shall be required to take an oral examination on the subject matter of their thesis unless exempted by the examiners.

Degree of Doctor of Philosophy (PhD)

A candidate for the PhD degree in the Faculty of Veterinary Medicine shall possess a degree in veterinary medicine or other appropriate qualification and shall present such evidence in this regard as will satisfy the Faculty.

Candidates shall carry on research for a minimum period of nine terms or six terms in the case of any candidate whose attainments, in the opinion of the Faculty, justify such shorter course.

Candidates are allowed six years in which to complete the degree from the date of acceptance, and if they have not done so within that period, they must re-apply to the Faculty.

Candidates shall be required to take an oral examination on the subject matter of their thesis unless exempted by the examiners.

Diploma

Diploma in Veterinary Nursing (VN)

In response to the enthusiastic interest and support of the veterinary profession and veterinary nurses in Ireland, UCD and the Faculty of Veterinary Medicine have developed a Diploma in Veterinary Nursing.

The three-year course is based on the block release principle. Trainees will be required to hold a minimum of 20 hours paid continuous employment, in a UCD Faculty of Veterinary Medicine-registered veterinary practice. This employment must be arranged prior to application and should start no later than the date of registration with UCD. While working in practice, trainees will complete a comprehensive personal portfolio, illustrating the skills and knowledge they are acquiring on the job.

Each year, the trainee will spend eight weeks at the Faculty of Veterinary Medicine, receiving an intensive course of lectures, practical classes and clinical rotations. The Veterinary Teaching Hospital caters for both large and small animals, and the curriculum will incorporate small animal, farm animal and equine nursing.

Admission Requirements

Passes in six recognised subjects at Leaving Certificate, at least two of which must be grade C3 on a higher paper or better. Subjects must include: Irish (minimum grade D3 leaving certificate ordinary paper); English (minimum grade C3 leaving certificate ordinary paper); Mathematics (minimum grade C3 leaving certificate ordinary paper); Laboratory Science subject or Home Economics (Social & Scientific) (minimum grade C3 leaving certificate higher paper).

Up to ten places per year will be available for persons who have completed alternative training and/or experience, but who may not have secured all the Leaving Certificate entry requirements. This entry route will be open to persons aged twenty-three years or over on the 1st January prior to entry.

Applications should be made direct to the UCD Admissions Office. In 2002 there will be a total of thirty places.

Examination Subjects

First University Examination in Veterinary Nursing

VNUR	1001	Veterinary Nursing Theory and Practice IA
VNUR	1002	Veterinary Nursing Theory and Practice IB
VNUR	1003	Veterinary Nursing Theory and Practice I
VNUR	1004	Portfolio of Veterinary Nursing Experience
VNUR	1005	Clinical Veterinary Nursing Rotations

Second University Examination in Veterinary Nursing

VNUR	2001	Veterinary Nursing Theory and Practice IIA
VNUR	2002	Veterinary Nursing Theory and Practice IIB
VNUR	2003	Veterinary Nursing Theory and Practice II
VNUR	2004	Portfolio of Veterinary Nursing Experience
VNUR	2005	Clinical Veterinary Nursing Rotations

Third University Examination in Veterinary Nursing

VNUR	3001	Veterinary Nursing Theory and Practice IIIA
VNUR	3002	Veterinary Nursing Theory and Practice IIIB
VNUR	3003	Veterinary Nursing Theory and Practice III
VNUR	3004	Portfolio of Veterinary Nursing Experience
VNUR	3005	Clinical Veterinary Nursing Rotations

