

# Western College of Veterinary Medicine

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## ADVISORY COUNCIL \*

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R. P. MacKinnon, President  
C. S. Rhodes, Dean of Veterinary Medicine

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Executive Director, Canadian Food Inspection Agency

#### Alberta Agriculture and Food

Dr. G. W. Ollis, Chief Provincial Veterinarian

#### Alberta Learning

Mr. P. Gougeon, Assistant Deputy Minister, Adult  
Learning

#### Alberta Veterinary Medical Association

Dr. I. Giebelhaus, Veterinary Practitioner

#### British Columbia Ministry of Advanced Education, Training and Technology

Ms. S. Burns, Acting Manager, Public Institutions

#### British Columbia Ministry of Agriculture, Fisheries and Food

Dr. R. Lewis, Director/Chief Veterinarian, Animal  
Health Branch

#### British Columbia Veterinary Medical Association

Dr. R. Ashburner, Veterinary Practitioner

#### Manitoba Agriculture and Food

Dr. A. Preston, Director, Veterinary Services Branch

#### Manitoba Education and Training

Ms. L. Gordon, Acting Executive Director, Council on  
Post-Secondary Education

#### Manitoba Veterinary Medical Association

Dr. D. McKague, Veterinary Practitioner

#### Saskatchewan Agriculture, Food and Rural Revitalization

Dr. L. A. Forsythe, Animal Health Unit

#### Saskatchewan Learning

Dr. J. Biss, Executive Director, University Services

#### Saskatchewan Veterinary Medical Association

Dr. T. Schmidt, Veterinary Practitioner

#### University of Alberta

Dr. I. N. Morrison, Dean, Faculty of Agriculture and  
Forestry, and Home Economics

#### University of British Columbia

Dr. M. Quayle, Dean, Faculty of Agricultural Sciences

#### University of Manitoba

Dr. H. Bjarnason, Dean, Faculty of Agricultural and  
Food Sciences

#### University of Saskatchewan

Dr. E. M. Barber, Dean of Agriculture  
Ms. L. Kennedy, Associate Vice-President (Financial  
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Western College Veterinary Students Association  
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## FACULTY & ACADEMIC STAFF

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A. J. Whitworth, Vice-President (Finance and  
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C. S. Rhodes, Dean of Veterinary Medicine  
J. V. Bailey, Associate Dean of Veterinary Medicine  
(Academic)  
N. C. Rawlings, Acting Associate Dean of Veterinary  
Medicine (Research)  
T. B. Wishart, Dean of Graduate Studies and Research  
and Associate Vice-President (Research)  
G. Barnhart, University Secretary  
F. Winter, Director of Libraries  
Å. Kachan, Director of Student Record Services and  
Registrar

## DEPARTMENT OF LARGE ANIMAL CLINICAL SCIENCES

### Professor and Acting Head

L. Petrie

### Professors

J. V. Bailey, S. M. Barber, A. D. Barth, J. R. Campbell,  
C. E. Card, J. C. Haigh, E. D. Janzen, R. J. Mapletoft,  
J. M. Naylor, C. S. Rhodes, J. M. Stookey,  
H. G. G. Townsend, D. G. Wilson

### Assistant Professors

T. D. Carruthers, C. R. Clark, C. W. Palmer,  
C. L. Waldner, M. Woodbury

### Associate Members

R. A. Pierson, S. Schmutz

### Adjunct Professor\*

J. Kastelec

### Clinical Associates\*

S. Ashburner, S. Manning, F. Schumann

## DEPARTMENT OF SMALL ANIMAL CLINICAL SCIENCES

### Professor and Head

K. Post

### Professors

N. A. Caulkett, T. Duke, C. S. Farrow, B. H. Grahn,  
J. W. Pharr, M. E. Smart, S. M. Taylor

### Associate Professors

T. Bechuk, A. P. Carr, C. L. Shmon

### Assistant Professors

M. Mayer, K. A. Tryon

### Adjunct Professor

C. Wheler

## DEPARTMENT OF VETERINARY BIOMEDICAL SCIENCES

### Professor and Head

D. L. Hamilton

### Professors

G. P. Adams, B. R. Blakley, P. M. Dowling,  
G. W. Forsyth, L. M. Hiebert, A. Livingston,  
G. D. Muir, N. C. Rawlings

### Associate Professors

R. K. Chaplin, D. Janz, B. Singh, J. Singh,  
M. Wickstrom

### Assistant Professor

K. Machin

### Associate Members

J. Alcorn, P. J. Chedrese, K. Liber

### Adjunct Professors\*

J. O. Boyson, C. R. Christensen, S. Gabriel,  
S. Bilodeau-Goeseels, L. P. Weber

## DEPARTMENT OF VETERINARY MICROBIOLOGY

### Professor and Head

V. Misra

### Professors

L. A. Babiuk, J. M. Chirino-Trejo, J. A. Ellis,  
J. R. Gordon, D. M. Haines, L. R. Polley

### Associate Professor

R. C. Mainar-Jaime

### Adjunct Professors\*

G. Appleyard, M. Campos, A. Estrada, M. A. Gajadhar,  
D. Godson, P. Griebel, R. Harland, E. P. Hoberg,  
S. Krakowka, M. Ngeleka, O. Ogunremi, A. Potter,  
S. K. Tikoo, K. West

## DEPARTMENT OF VETERINARY PATHOLOGY

### Associate Professor and Head

D. Middleton

### Professors

A. L. Allen, M. L. Jackson, F. A. Leighton,  
G. A. Wobeser

### Associate Professors

S. Gomis, B. Kidney, E. D. Olfert, E. Simko,  
J. E. G. Smits

### Adjunct Professors\*

B. Allan, G. D. Appleyard, T. K. Bollinger, E. G. Clark,  
M. Kerr, S. L. Myers, B. O'Connor, J. Orr, E. H. Waters

### Professional Affiliates\*

M. Cattet, H. Philibert

## MEMBERS FROM OTHER FACULTIES

J. Alcorn, Assistant Professor, College of Pharmacy and Nutrition

D. P. Chivers, Associate Professor of Biology

D. A. Kolbinson, Associate Dean of Dentistry and Professor of Dentistry

B. Laarveld, Professor and Head of Animal and Poultry Science

R. A. Pierson, Professor of Obstetrics, Gynecology and Reproductive Sciences

V. Misra, Professor and Acting Head of Microbiology and Immunology

J. J. McKinnon, Associate Professor of Animal and Poultry Science

D. A. R. Sanders, Assistant Professor of Chemistry

\* Denotes non-members of faculty.

## ADMISSION

### PRE-VETERINARY PROGRAM

Admission to the Western College of Veterinary Medicine requires at least two full years (60 credit units) in the College of Arts and Science (<http://arts.usask.ca>) or the College of Agriculture ([www.ag.usask.ca](http://www.ag.usask.ca)). The pre-veterinary requirements are as follows:

- (1) English or Literature 6 credit units\*
- (2) Chemistry 6 credit units
- (3) Organic Chemistry 3 credit units
- (4) Biochemistry 6 credit units
- (5) Physics 6 credit units
- (6) Mathematics or Statistics 6 credit units
- (7) Biology 6 credit units
- (8) Genetics 3 credit units
- (9) Introductory Microbiology 3 credit units
- (10) Electives\*\* 15 credit units

Total 60 credit units

All courses must be beyond senior matriculation (Grade 12 or equivalent) level\*\*\*

The Faculty of the Western College of Veterinary Medicine has also approved a policy that requires all applicants to have a minimum cumulative average of 70% in order to be considered for admission into the veterinary program. All grades are converted to a common scale for comparative purposes and this converted average will be used.

\* One credit unit represents one lecture-hour equivalent per week for one term, i.e. approximately one semester hour of credit.

\*\* The choice of electives should be based upon the requirements of the program in which the student is enrolled. At some universities it might be in the student's better interest to take three years to meet the pre-veterinary requirements in order to take electives appropriate for this program. Students are also encouraged to select electives which will broaden their perspective. A course in statistics is desirable and may be used to meet a part of the mathematics requirement.

\*\*\* One University course (6 credit units) not requiring a Grade 12 subject as prerequisite may be counted as one of the electives if it is needed to meet a senior matriculation deficiency.

At the University of Saskatchewan, pre-veterinary course requirements are usually met by the following courses:

- ENG 110.6 or any two of 111.3, 112.3, 113.3, 114.3
- CHEM 112.3, 115.3 (or BIOCH 212.3) and 250.3
- MATH 101.3 and STATS 103.3 or 110.3 and 3 additional credit units in mathematics or statistics
- PHYS 111.6
- BIOL 110.6 and 211.3
- BIOCH 200.3 and 211.3
- AP MC 212.3 or MICRO 214.3
- Sufficient electives to meet the 15 credit requirement.

It is the applicant's responsibility to ensure that his or her pre-veterinary courses are acceptable as prerequisite courses for admission to the D.V.M. program. Ordinarily, pre-veterinary advisors at other universities know the appropriate pre-veterinary courses in their institutions.

Only a limited number of applicants can be accepted for admission to the first year of the Veterinary Medicine program and completion of the pre-veterinary program carries no assurance of admission to the professional program.

Since competition for admission to this College is very keen, it is recommended that the applicant choose an alternate career goal which will determine the choice of electives taken. Applicants are urged to consult their undergraduate advisors for help in this regard.

Enquiries and requests for application forms should be directed to the Associate Dean (Academic), Western College of Veterinary Medicine, University of Saskatchewan. Completed applications for admission must be returned before January 3, 2004.

Selection will be based on scholastic records, references, interviews, and general qualifications. While practical experience with animals is not an absolute requirement for admission to the program, it is becoming increasingly important as a factor in selection, as is an exposure to veterinary medicine.

Since the Western College of Veterinary Medicine is a regional institution, it admits applicants primarily from western Canada with quotas for each province. For detailed information on residency policy and admissions procedures, contact the Admissions Office, Western College of Veterinary Medicine for a copy of the Admissions brochure.

### ABORIGINAL APPLICANTS

The Western College of Veterinary Medicine has recently, with the approval of the Saskatchewan Human Rights Commission, introduced an Educational Equity Program for Aboriginal Students. In this program, a defined number of seats have been allocated for self-identified applicants of Aboriginal descent. These applicants will be ranked among themselves and not against the general applicant pool.

Proof of Aboriginal ancestry will be required and must be provided at the time of application. For the purpose of admission, the documents that are accepted as proof of Aboriginal ancestry are listed in the General Information section of the *Calendar*.

If you wish to be considered under this program, please enclose a letter of intent with your completed application form as well as proof of ancestry.

### GRADUATE STUDY

A student who has graduated with a degree in Veterinary Medicine or who has a four-year Honours degree and who has obtained a sufficiently high standing may seek admission to the College of Graduate Studies and Research to proceed with a graduate program. For details of graduate programs offered, see the College of Graduate Studies & Research ([www.usask.ca/cgsr](http://www.usask.ca/cgsr)) section of the *Calendar* or consult the Associate Dean, Research, Western College of Veterinary Medicine.

## PROGRAMS

### DOCTOR OF VETERINARY MEDICINE PROGRAM

The session consists of four quarters of eight weeks each.

#### First Quarter

August 25–October 19, 2003

#### Second Quarter

(Years 1, 2, 3)

October 20–December 12, 2003

#### (Year 4)

October 20–December 14, 2003

#### Third Quarter

(Years 1, 2, 3)

January 5–February 22, 2004

#### (Year 4)

January 5–February 26, 2004

#### Mid-term Break

(Years 1,2,3)

February 23–February 29, 2004

#### (Year 4)

February 27–March 1, 2004

#### Fourth Quarter

(Years 1, 2, 3)

March 1–April 21, 2004

#### (Year 4)

March 2–April 25, 2004

Examination periods follow the Second and Fourth Quarter termination dates.

### Courses Of Instruction

#### Year 1

Gross Anatomy, Developmental Anatomy, Microscopic Anatomy, Physiology I, Epidemiology, Animal Management and Production I, Survey of Veterinary Medicine, Biochemistry, Neuroscience, Immunology.

#### Year 2

Animal Management and Production II, Veterinary Bacteriology and Mycology, Physiology II, Pharmacology, Virology, Parasitology, Systemic Pathology, General Internal Veterinary Medicine, Radiology, Veterinary Anesthesiology/Surgical Principles, General Pathology.

#### Year 3

Clinical Pathology, Obstetrics and Reproduction, Avian and Laboratory Animal Medicine, Toxicology, Clinical Pharmacology, Herd Medicine, The Veterinarian and the Law, Surgical and Medical Exercises, Small and Large Animal Internal Medicine, Small and Large Animal Surgery, Clinics.

#### Year 4

Applied Veterinary Medicine (Clinics).

### REGISTRATION AND ATTENDANCE

Lectures for students of Veterinary Medicine will begin on Monday, August 25, 2003.

Students wishing to register late should address the request, together with a statement of the special circumstances, to the Dean, Western College of Veterinary Medicine, University of Saskatchewan. Late registration will be permitted only by special ruling of the Faculty.

Students are expected to attend regularly all lectures and laboratory periods. Failure of a student to perform the

work of the course to the satisfaction of the Faculty will involve the loss of credit for the course and the student will be excluded from the final examination.

## PROMOTION REGULATIONS

Progress through the program is determined on a yearly basis with promotion to the next year or recommendation for graduation requiring a sessional weighted average of 60% and successful completion of all non-elective courses.

Subject to the regulations following, a student who has failed in any course of the veterinary medical program receiving a grade of less than 50% will be required to write and pass a supplemental examination before starting studies in a subsequent year.

Subject to a special ruling by the Faculty, failure in two courses or failure to obtain a weighted average of 60% constitutes failure for the session. The student may be permitted to repeat the entire year or be required to discontinue at the discretion of the Faculty. A student repeating a year must obtain a minimum grade of 60% in each course.

The Faculty may require an individual to withdraw from the program for reasons other than academic if it is considered in the best interests of the individual or the College.

See the General Information section of the *Calendar* for a full explanation of the grading system and the literal descriptors associated with percentage scores.

## DEGREE WITH DISTINCTION

The D.V.M. degree with Distinction will be awarded to students whose four-year averages are between 70 and 1.5 standard deviations above the mean of the four-year averages for their class and who have four-year averages of greater than 75.0% and weighted averages of greater than 70.0% in Year 4. The D.V.M. degree with Great Distinction will be awarded to students whose four-year averages are more than 1.5 standard deviations above the mean of the four-year averages for their class and who have four-year averages of greater than 80.0% and weighted averages of greater than 75.0% in Year 4.

## REQUIREMENTS FOR LICENSE TO PRACTICE

A D.V.M. degree does not automatically confer the right to practice veterinary medicine. By legislation this right is the prerogative of the recognized veterinary associations in each of the provinces. Further information on provincial licenses is obtainable from the offices of the provincial veterinary associations.

## GENERAL INFORMATION

### ABOUT THE WESTERN COLLEGE OF VETERINARY MEDICINE

The decision to build a College of Veterinary Medicine in Western Canada on the campus of the University of Saskatchewan at Saskatoon was reached on August 23, 1963. Representatives of the universities and governments of the four western provinces and the federal government were involved in the discussions leading up to the decision. This co-operative regional approach to higher education is maintained through

participation of regional representatives in the Advisory Council of the College. The Council provides formal communication on regional needs between the several western provinces and the college.

The Western College of Veterinary Medicine meets its responsibilities in three major areas; education, research, and service.

Education, the primary function, embraces undergraduate teaching in veterinary medicine and related disciplines. Formal graduate study toward M.Sc. or Ph.D. degrees or diplomas, and residency training programs are becoming increasingly important. Additionally, as in many fields, rapid advances in knowledge and techniques necessitate continuing education programs for the graduate veterinarian; this is a recently recognized addition to the educational function of universities.

Research supports the teaching program and at the same time exploits the potential of the highly trained staff. Research contributes to the advancement of science and the solving of health problems of man and animals.

A variety of services are provided, which aid the practicing veterinarian and thus ultimately the animal owner while yielding necessary teaching material and practical experience for students. These include a veterinary farm practice, clinics, laboratory diagnostic and extension services.

### Physical Facilities

The University of Saskatchewan proceeded rapidly with the establishment of the new college. The initial building was completed in September 1965 in time to provide temporary teaching facilities for the first class, which entered that fall. Construction of the first stage of the main building began in 1966, and occupancy and official dedication occurred in 1969. A major expansion of these facilities was completed in late 1981.

The main building is arranged about a central core in which are found those facilities which are in general usage by all divisions of the veterinary college, (i.e. lecture rooms, college administrative offices and library.) About this central core are arranged the specialized areas for the academic departments of the college. In these areas are found the teaching laboratories designed for specific disciplines, research laboratories for members of the faculty and graduate students, and the service facilities associated with each department.

The large animal hospital and the small animal hospital in the college provide patients for the teaching of clinical medicine, while the ambulatory clinic acquaints the student with veterinary farm practice. These clinical units, together with the supporting service laboratory units, comprise the Veterinary Teaching Hospital.

### THE VETERINARY LIBRARY

The Veterinary Library was established as a major branch of the University Library System just prior to the entrance of the first class of veterinary students. Its primary responsibility, that of support to the teaching program, has been broadened to include creation of a central repository for western Canada of reference material pertinent to animal medicine. In addition to support from the University, its initial growth has been aided by donations from individuals, professional associations and industrial organizations.

The library features a large reading room with adjacent alcoves for reference books, current periodical display and microfilm. On a mezzanine level surrounding the reading area, extensive stack space for periodical storage and a number of study carrels are located. The library

receives all major veterinary periodicals and many journals related to basic biological or medical sciences. The presence of a library devoted to health sciences associated with the Colleges of Medicine and Dentistry on the campus provides additional depth of library support.

## THE VETERINARY PROFESSION

Members of the profession of Veterinary Medicine are primarily responsible for the health of farm livestock and poultry, and pet animals. These are the major concerns of most veterinarians in private practice and for a large number of those in governmental service. However, the opportunities available to the graduate veterinarian to utilize his or her training in a number of other related areas are increasing rapidly. These opportunities include participation in various phases of public health work, such as inspection of production, storage and distribution of animal food products. Many graduates specialize in the health care of zoo animals, of wild animals (including birds and other lower vertebrates) or of animals used for biological and medical research. In addition, veterinarians in increasing numbers are engaged in full time research related either to animal disease or to more general biological or medical problems.

It is the aim of the Western College of Veterinary Medicine to provide the student with a good knowledge of the basic pre-clinical sciences and with practical training in clinical Veterinary Medicine. Graduates should be capable of successfully entering practice or training for a specialty in other fields of Veterinary Medicine.

## FEES, PAYMENT OF FEES, CANCELLATIONS AND REFUNDS, AND COURSE CHANGES

See the Tuition & Fee Information section of the *Calendar*.

## SPECIAL EXPENDITURES

Each student, on registering for the first year in Veterinary Medicine, must purchase a suitable microscope.

Instruments will be required for anatomy dissection and clinical work. Department heads concerned will advise on types or models preferred.

## SCHOLARSHIPS

Scholarships which are open for competition to students of all colleges are listed in the *Awards Guides* ([www.usask.ca/students/scholarships](http://www.usask.ca/students/scholarships)) available online.

## COURSES

College of Veterinary Medicine courses are listed in the Course Descriptions section of the *Calendar* under the following subject headings:

- Biochemistry (BIOCH)
- Large Animal Clinical Sciences (LACS)
- Small Animal Clinical Sciences (SACS)
- Veterinary Biomedical Sciences (VBMS)
- Veterinary Interdepartmental (VTINT)
- Veterinary Microbiology (VT MC)
- Veterinary Pathology (VT PA)