Summary of Changes for 2009-2010 Graduate Calendar

Changes as of December 17, 2009

PLEASE NOTE: Page numbers for insertions and deletions refer to page numbers in the June 2009 / hard copy version of the 2009-2010 Graduate Calendar.

Faculty of Graduate Studies
Update (updated December 9, 2009)
- Page 1
  - Deleted "Francey Pisicoli, Graduate Program Officer"

Academic Regulations
Revisions (updated December 17, 2009)
- Page 14
  - "Registration", second column, fifth paragraph, second sentence
    - Deleted "If a student in a course-based program does not take a minimum of one half-course during a registration year, the student will be required to withdraw from program."
    - Inserted "If a student in a course-based program does not take a minimum of one half-course during a registration year, the student will be required to pay the non-refundable tuition fee assessment of the equivalent to a graduate half-course fee."

- Page 16
  - "Annual Reports", second column, third paragraph, first sentence
    - Deleted "Each graduate student must file an annual progress report with his or her graduate program."
    - Inserted "Each thesis-based graduate student must file an annual report with his or her graduate program."

Graduate Degree Programs and Course Descriptions
Haskayne School of Business
Revisions (updated December 14, 2009)
- Page 126
  - Section 1, "Degrees and Specializations Offered", "Master of Business Administration (course-based)"
    - first paragraph, third sentence
      - Deleted "Students can complete the Haskayne MBA through full-time study that normally requires 20 months…"
      - Inserted "Students can complete the Haskayne MBA through full-time study that normally requires 16 to 20 months…"
  - Section 1, "Degrees and Specializations Offered", "Master of Business Administration (course-based)"
    - first paragraph, sixth sentence
      - Deleted "They may also elect not to have an area of specialization, or to create a custom specialization through special arrangements with the Associate Dean (MBA Program)."
      - Inserted "They may also elect not to have an area of specialization."
• Section 5, "Program/Course Requirements", "Haskayne MBA", first paragraph, first sentence
  o Deleted "The MBA degree normally consists of twenty half-courses."
  o Inserted "The MBA degree normally consists of twenty half-courses (nineteen half-courses and two quarter courses effective July 1, 2010)."
• Section 5, "Program/Course Requirements", "Haskayne MBA", first paragraph, third sentence
  o Deleted "Students must complete a minimum of fifteen half-courses..."
  o Inserted "Students must complete a minimum of fifteen half-courses (or equivalent)..."
• Section 5, "Program/Course Requirements", "First Year Courses", eleventh line
  o Inserted "MGST 789.01 MBA Skills (effective July 1, 2010)"
• Section 5, "Program/Course Requirements", "Second Year Courses", first sentence
  o Deleted "The MBA degree requires two integrative courses"
  o Inserted "The MBA degree requires the following integrative courses"
• Section 5, "Program/Course Requirements", "Second Year Courses", fourth line
  o Inserted "MGST 789.02 Leadership Capstone (effective July 1, 2010)"

• Page 127
• Section 5, "Program/Course Requirements", "Areas of Specialization", first paragraph, first sentence
  o Deleted "Students must complete eight elective half-courses beyond the first year and integrative courses."
  o Inserted "Students must complete eight elective half-courses (seven effective July 1, 2010) beyond the first year and integrative courses."
• Section 5, "Program/Course Requirements", "Areas of Specialization", third paragraph
  o Deleted "Students may also create a customized specialization through special arrangements with the Associate Dean (MBA Program)."
• Section 5, "Program/Course Requirements", "Executive MBA", second sentence
  o Deleted "However, the program requires all of the same courses as are required in the Haskayne MBA program."
  o Inserted "However, the program requires many of the same courses as are required in the Haskayne MBA program."
• Section 5, "Program/Course Requirements", "Executive MBA", sixth sentence
  o Deleted "It is expected that all participants entering the program in a given year will complete the program requirements at the same pace, completing all of them over the same 20-month time frame."
  o Inserted "It is expected that all participants entering the program in a given year will complete the program requirements at the same pace, completing all of them over the same 21-month time frame."

• Page 132
• Addition (updated December 14, 2009)
  o Inserted "Management Studies 789" as follows:

<table>
<thead>
<tr>
<th>Management Studies 789</th>
<th>Q(3-0)</th>
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</thead>
<tbody>
<tr>
<td>(effective July 1, 2010 and pending PCC approval)</td>
<td></td>
</tr>
</tbody>
</table>

**Seminar in Management Studies**

Intensive study and discussion of current literature and research with respect to selected topics in Management Studies.

**Prerequisite:** Consent of the Haskayne School of Business.

**MAY BE REPEATED FOR CREDIT**
**Interdisciplinary Graduate Program**
Revision (updated December 14, 2009)

- Page 138
- Section 2, "Admission Requirements", second paragraph
  - Deleted "For applicants required to prove proficiency in English a TOEFL score of 600 (written test) or 250 (computer-based test) including at least 5.0 on the Test of Written English (TWE), and a score of at least 50 on the Test of Spoken English (TSE); or an IELTS score of 7.5."
  - Inserted "For applicants required to prove proficiency in English a TOEFL score of 600 (written test) or 250 (computer-based test) including at least 5.0 on the Test of Written English (TWE), and a score of at least 50 on the Test of Spoken English (TSE); or 100 (internet-based test); or an IELTS score of 7.5."

Revisions (updated December 14, 2009)

- Page 139
- Section 2, "Admission Requirements", "Doctor of Philosophy", bullet point e)
  - Deleted "A four-year funding proposal in accordance with the University of Calgary Guidelines for Graduate Funding"
  - Inserted "A four-year funding proposal."
- Section 3, "Application Deadline", first paragraph
  - Deleted "Deadlines for submission of complete applications for students with Canadian and US transcripts"
  - Inserted "Deadlines for submission of complete applications for Canadians and Permanent Residents"
- Section 3, "Application Deadline", second paragraph
  - Deleted "Deadlines for submission of complete applications for students with international transcripts"
  - Inserted "Deadlines for submission of complete applications for students that require a study permit to enter the program"

**Veterinary Medical Sciences**
Revisions (updated December 17, 2009)

- Pages 184 and 185
- Revised Veterinary Medical Sciences as follows:

**VETERINARY MEDICAL SCIENCES VMS**
Contact Info
Location: Health Sciences Centre, Room G351 Teaching Research and Wellness (TRW) Building, Room 2D09
Faculty number: (403) 210-6628
Fax: (403) 210-8939 8121
E-mail address: mvmedres@ucalgary.ca vmgrad@ucalgary.ca
Web page URL: [http://vet.ucalgary.ca/graduate](http://vet.ucalgary.ca/graduate)
1. Degrees and Specializations Offered
Doctor of Philosophy (PhD)
Master of Science (MSc), thesis-based
*All students are registered full-time.

2. Admission Requirements
In addition to the Faculty of Graduate Studies requirements, the Faculty of Veterinary Medicine requires:

a) A minimum admission grade point average of 3.20 on a four-point scale, or equivalent A Baccalaureate degree** or its equivalent from a recognized institution with a minimum admission grade point average of 3.0 on a 4.0 grade point scale or equivalent, and a minimum of 3.2 during the last two years (60 credit hours) of undergraduate study.

b) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 580 (written test), 237 (computer-based test) or 92 (internet-based test) or a minimum IELTS score of 7.0.

**Note that a Doctor of Veterinary Medicine (DVM) degree is not a requirement for entry into the MSc or PhD programs. Applicants who do not meet the above requirements will be considered only under exceptional circumstances.

3. Application Deadline
Complete applications will be considered at any time but will start being reviewed by for the September, January, and May terms and will only be reviewed upon submission of on-line application and receipt of ALL required supporting documents by the following deadlines:

<table>
<thead>
<tr>
<th>Admission Term</th>
<th>Canadian and US Admission Deadline</th>
<th>International Admission Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>September</td>
<td>1 June</td>
<td>1 March</td>
</tr>
<tr>
<td>January</td>
<td>1 November</td>
<td>1 June</td>
</tr>
<tr>
<td>May</td>
<td>1 March</td>
<td>1 November</td>
</tr>
</tbody>
</table>

1 February for September admission, and;
1 August for January admission.

4. Advanced Credit
Advanced credit may be given for course work completed prior to entry into the program. The applicant must make requests for advanced credit as part of his or her application for admission.

5. Program/Course Requirements
In addition to Faculty of Graduate Studies requirements, all MSc and PhD students must take:

a) VMS 600 - Seminars in Veterinary Medical Sciences. Presentation of an annual seminar to the Faculty and a final seminar that precedes the thesis defence;

b) VMS 601 - Professional Skills in Health Science Research. Series of one-day workshops
focusing on skills essential for success in health science research - Research Integrity, Grants and Grant Writing, Verbal and Written Communication of Research Findings, Career Development, and Career Options in the Health Sciences;

| c) | VMS 603/Biology 603 - Biology of Laboratory Animals; |
| d) | VM 605: Research Design and Methods in the Health Science. This is an introductory course in experimental design and statistics centered on first year graduate students working in the health sciences. The course is open for auditing with permission of course coordinator. Alternatively, a suitable entry-level biostatistics course may be taken (e.g. Medical Sciences 643 - Biostatistics) |
| e) | MSc students must take at least one PhD additional and PhD students must take at least two additional graduate level half-courses appropriate to their field of study and approved by their Supervisory Committee; and |
| f) | Post-graduate DVMs engaged in a residency program may be required to take additional courses to supplement their clinical training. |

6. Additional Requirements

All Graduate Students will meet with the Graduate Training Manager at least once per year to review their research and scholarly progress. Contributions to the published research literature and presentations at scientific conferences are encouraged.

7. Credit for Undergraduate Courses

The student's Supervisory Committee may recommend credit for undergraduate courses provided they are relevant to the area of study.

8. Time Limit

Expected completion time for an MSc is two years with a maximum time of four years, for students in full-time study; students in PhD programs are expected to complete in four years but not longer than six years.

9. Supervisory Assignments

Students will normally have identified a permanent supervisor at the time of admission. Alternatively, the VMS Graduate Program has an optional rotation program that may last up to six months. This program will only be available for the September admission term. The rotation program allows each student to sample different research areas and thus to make a highly-educated choice of research topic, supervisor, and their research team. Rotations are 8 weeks in duration during which the student works closely with the supervisor or member of the research team as part of an ongoing study, as well as focusing on their course work. Students will be paid the standard stipend by the Program during the rotation period (prorated from $20,000 per year = $10,000 for six months or less if the student chooses a permanent supervisor early). After the rotation program, the student will select a permanent supervisor and is encouraged to apply for further funding. For further details, please contact vmgrad@ucalgary.ca.

In consultation with their supervisor(s), a Supervisory Committee will be selected which includes a minimum of two additional faculty members (MSc) or three additional faculty members (PhD). In the case of the PhD, one member should come from outside the Veterinary Medical Sciences graduate program. The Graduate Program Coordinator will approve the composition of the committee within the first six-four months of enrolment.

10. Required Examinations

The doctoral candidacy examination will have a written and oral component and is designed to
test the student’s general and specific knowledge of the area relevant to the thesis topic. Examination questions, two in the form of a literature review and two in the form of a grant proposal, will be given to the student four weeks before the oral exam. The student will have three weeks to prepare written answers to one of the literature review and one of the grant proposal questions, each of which will not exceed 20 double spaced pages. The oral part of the candidacy exam will be based on the written answers as well as related material. The candidacy exam for VMS PhD students will consist of a written and oral component. The student’s research proposal serves as the basis for the written component of the candidacy exam. In the Veterinary Medical Sciences Graduate Program, the oral part of the exam is based both on the written proposal and all relevant related topics assigned by the exam committee. Therefore, it is required that the candidacy is completed early in the student’s program, at the latest by 18 months. The written component shall consist of maximum 20 page (double-spaced) document, excluding references and figures, and will include a relevant literature summary of the student’s field of study and description of proposed research. The oral exam should be scheduled one week after submission of the written proposal to the exam committee. The supervisor/co-supervisor will attend the exam as non-voting members.

The final thesis defence for MSc and PhD degrees will consist of a public seminar followed by an open oral examination.

11. Research Proposal Requirements

MSc and PhD students must present a written research proposal to the Program Coordinator and have it approved by their Supervisory Committee no later than twelve months after initial registration in the program. The VMS Graduate Program requires all Masters and PhD students to defend a Research Proposal to their supervisory committee. A copy of the final version of the proposal will be kept in the student’s file. For VMS Masters students, this must happen no later than 12 months after initial registration in the program. For VMS PhD students the defense of the proposal is part of the candidacy exam. All components of the candidacy exam must be completed within 18 months of first registration. All Masters students who transfer to a PhD must present and defend a revised proposal to their Supervisory Committee within six months of program transfer as a component of their candidacy exam.

12. Special Registration Information

None.

13. Financial Assistance

Full time graduate students in the VMS Graduate Program will be offered a stipend of at least $20,000 per year for the duration of their program (normally two years for MSc and four to five years for PhD students). Funding comes from a variety of sources, including grants, external salary awards, and UCVM Entrance Awards ($18,000). Students who hold relevant professional degrees (e.g. DVM, MD) are also eligible to apply for generous post-professional awards of up to $40,000 per year for two years through the UCVM Entrance Awards. Admission to the Program is conditional on demonstration of internal or external studentship support. Sources of financial support are described on the Faculty of Veterinary Graduate Education website (http://www.vet.ucalgary.ca/graduate_research_teaching_assistantships). Continuation of financial support through the VMS Graduate Program or the Faculty of Veterinary Medicine is conditional on completion of program requirements including supervisory committee meetings, submission of the research proposal, annual seminar etc. Although initially required to pay a
differential tuition fees, International students registered in the VMS Graduate Program will be reimbursed the full value of their differential fee each year.

Further information on funding opportunities can be found at http://vet.ucalgary.ca/awards_amp_scholarships.

14. Other Information

Outstanding students enrolled in the MSc program may request a change of registration status and transfer to the PhD program. The request must be done within the first two years, 18 months of the program and supported in writing by the supervisor and formally recommended by the Supervisory Committee to the Graduate Program Coordinator. The student will be required to defend their thesis proposal, appropriate for a PhD project, within six months of transferring to complete the requirements of the PhD candidacy exam.

15. Faculty Members/Research Interests

Faculty members and their research interests may be found at:
http://www.vet.ucalgary.ca/about/faculty http://vet.ucalgary.ca/research_areas.

Additional information can be obtained by calling the contact number listed for the VMS program or from the Administrative Office of the Faculty of Graduate Studies.

See the online Graduate Calendar for a listing of new Graduate level courses in Veterinary Medicine