

Western University of Health Sciences

# College of Veterinary Medicine

**Doctor of Veterinary Medicine (DVM)**  
**2021/2022 Catalog**

## **COVID-19 Impact**

The contents of this 2021-2022 catalog reflect standard operating conditions for the academic year. However, the global COVID-19 pandemic has resulted in a rapidly changing environment for higher education, and Western University of Health Sciences will respond to those changes in the interest of the health and well-being of all our students, faculty, staff and administration. Changes to policy, procedure and practice may be necessary from time to time, and these changes will be published using typical communication channels, including mail, email, publication to the university web site, press releases, and other channels as deemed appropriate. These changes may supplement and supersede any inconsistent provisions found in this Catalog.

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# College of Veterinary Medicine

## *Doctor of Veterinary Medicine (DVM)*

### Accreditation

Western University of Health Sciences College of Veterinary Medicine (WesternU CVM) is accredited by the Council on Education of the American Veterinary Medical Association (AVMA-COE), 1931 N. Meacham Road, Suite 100, Schaumburg, Illinois 60173; Telephone (800) 248-2862. For additional information, please visit the [WesternU CVM Accreditation Website](#).

### Complaints Regarding Accreditation Standards

Student feedback about accreditation standards or other matters important to students can be submitted to the college in two ways: (1) a suggestions/complaint box located on the first floor of the Veterinary Medicine Center with business-hour access, or (2) an online anonymous form available at <https://rebrand.ly/cvmfeedback>. In addition, the CVM student app provides direct access to the online anonymous form listed above. The anonymous results are reviewed by the Office of the Dean and forwarded to the appropriate administrators who can address the suggestions/complaints in a timely matter.

### General Information

#### Mission Statement

The Mission of WesternU CVM is to educate veterinary professionals and advance knowledge to address the contemporary needs of society.

#### The Degree

The Doctor of Veterinary Medicine (DVM) degree is earned through the completion of four years of professional study subsequent to completion of undergraduate, pre-professional prerequisites at an accredited college or university. Graduates of this program are eligible to take national and state veterinary licensing examinations. Information on the North American Veterinary Licensing Examination is available on <https://www.icva.net>. Information on obtaining a state license to practice veterinary medicine is available from each state's veterinary medical board. The California Veterinary Medical Board is an agency within the California Department of Consumer Affairs. Information regarding the California Veterinary Medical Board is on <http://vmb.ca.gov>. Graduates who pass state licensing examinations may perform all of the duties and responsibilities of a practicing veterinarian as defined by the respective state's laws regulating the practice of veterinary medicine.

#### DVM Program Outcomes

All graduates of the program are competent in entry-level skills required by the profession, including but not limited to private/public practice, biomedical research, industry, and regulatory veterinary medicine. These outcomes are consistent with the AVMA-COE core competencies for veterinary graduates (listed below):

1. Comprehensive patient diagnosis (problem solving skills), appropriate use of clinical laboratory testing, and record management;

2. Comprehensive treatment planning including patient referral when indicated;
3. Anesthesia and pain management, patient welfare;
4. Basic surgery skills, experience, and case management;
5. Basic medicine skills, experience and case management;
6. Emergency and intensive care case management;
7. Health promotion, disease prevention/biosecurity, zoonosis, and food safety;
8. Client communications and ethical conduct; and
9. Critical analysis of new information and research findings relevant to veterinary medicine

## Personal Competencies for Admission and Matriculation

A candidate for admission to the Doctor of Veterinary Medicine (DVM) program must possess, or be able to achieve through reasonable accommodation, certain intellectual, emotional and physical abilities (sensory and motor functions) that would enable the individual to acquire the knowledge, technical and clinical skills needed to complete, successfully, the curriculum in order to pursue a career in veterinary medicine. Upon matriculation to the program, the student must continue to possess or be able to achieve through reasonable accommodation, the personal competencies outlined below throughout their progression in the DVM program. Graduation from the program signifies that the individual is prepared for entry into clinical practice or into postgraduate training programs. The candidate must be able to integrate - consistently, quickly, and accurately - all information received by whatever sense(s) are employed. In addition, they must have the intellectual ability to learn, integrate, analyze, and synthesize data.

The practice of veterinary medicine requires specific essential functions that include, but are not limited to, the following six broad categories: observation, communication, motor, interpretative (conceptual and quantitative), behaviors/social and physical health. For candidates or students who require a reasonable accommodation in order to meet the competencies outlined below, please contact the Harris Family Center for Disability and Health Policy (<sup>HF</sup>CDHP) at [Disability Accommodations \(e-mail\)](#) or (909) 469-5297 or visit the [<sup>HF</sup>CDHP web site](#).

Under all circumstances, a candidate or student should be able to perform the following in a reasonably independent manner, with or without reasonable accommodation:

### Observation Skills

Candidates and students must have sufficient vision to be able to observe demonstrations, experiments and macro- and microscopic laboratory exercises. They must be able to observe a patient accurately at a distance and close at hand. A candidate must be able to acquire information from written documents and to visualize information presented as paper, films, slides, video, and computer images. A candidate must be able to utilize visual diagnostic tools and other graphic images, with or without the use of assistive devices. A candidate must have functional use of visual, auditory, and somatic sensation (palpation, etc.) while using appropriate enhancement of sensory modalities (such as microscopes, stethoscopes, etc.). Reasonable accommodations may be provided for impaired individuals.

### Communication Skills

A candidate must be able to communicate clearly, appropriately, and effectively with a degree of sensitivity with patient caretakers or guardians; establish good rapport, convey or exchange information at a level allowing development of a health history; identify problems presented; explain alternative solutions; and give directions during treatment and post-treatment. For effective patient treatment, the candidate must be able to communicate with patient caretakers or guardians, colleagues, and all members of the veterinary and medical health care team effectively and efficiently. Communication must be culturally appropriate taking into consideration the diversity at WesternU. Communication includes oral and written modes requiring the ability to understand, write, and speak fluent English. The candidate must also be able to recognize nonverbal communication cues. Reasonable accommodations may be provided for impaired individuals.



### **Motor Skills**

A candidate should have a sufficient level of manual dexterity to execute the fine movements required to provide general veterinary care and treatment to patients within a specified amount of time. It is required that a candidate possess the manual motor skills necessary to directly perform diagnostic and treatment procedures associated with the practice of general veterinary medicine. Such procedures require coordination of both gross and fine muscular movements, equilibrium, and functional uses of the senses of touch, hearing, and vision. Examples of procedures reasonably required of students and veterinarians include, but are not limited to: physical examination of different species in the emergency and non-emergency settings, cardiopulmonary resuscitation, insertion of a variety of catheters, administration of intravenous medication, application of pressure to stop bleeding in open wounds, opening obstructed airways, basic surgical skills, performance of obstetrical maneuvers and performance of diagnosis and manipulation of the patient.

### **Interpretative (conceptual/quantitative) Skills**

A candidate must be able to perform interpretative skills such as measure, memorize, calculate, reason, analyze, integrate, and synthesize information. A candidate must be able to comprehend and mentally visualize three-dimensional relationships and to understand the spatial relationships of structures. A candidate must be able to apply problem-solving, clinical decision-making, and critical thinking skills in a timely fashion for effective patient treatment.

### **Behavior and Social Skills**

A candidate must possess the emotional health and maturity required for full utilization of their intellectual abilities, the exercise of good judgment and maintenance of confidentiality. This also requires the prompt completion of all responsibilities attendant to the diagnosis and care of patients and the development of mature, sensitive, and effective relationships with patients, patient caretaker/guardians, faculty, staff, and fellow students. A candidate must recognize that the curriculum is physically, mentally, and emotionally demanding. A candidate must be able to function effectively under stress, adapt to changing environments, display flexibility, and learn to function in the face of uncertainties inherent in the clinical problems of patients.

### **Physical Health**

WesternU has established medical status credential requirements that must be completed prior to matriculation and to maintain enrollment. Medical status credentialing is designed to ensure that the safety of patients and patient caretaker/guardian are not compromised while protecting the rights and safety of students as well. For more detailed information, contact the Student/Employee Health Coordinator at [stu-emphealth@westernu.edu](mailto:stu-emphealth@westernu.edu) or visit the [Student/Employee Health website](#).

## Admissions Policies and Procedures

WesternU CVM accepts applications from all qualified domestic and international candidates. Academic records, personal and professional potential and collaborative ability are considered in the admissions process. WesternU CVM seeks to admit a diverse student population with demonstrated academic competency and commitment to serve public and animal health care interests.

WesternU CVM participates in the centralized application service of the Association of American Veterinary Medical Colleges (AAVMC). Information regarding this service, called the Veterinary Medical College Application Service (VMCAS), is accessible via the VMCAS [website](#) or on the [Prospective Student website](#).

### Non-Discrimination Policy

In accordance with all applicable federal, state, and local laws, WesternU is committed to ensuring a campus community free from unlawful discrimination. Accordingly, WesternU prohibits unlawful discrimination on the basis of race, color, national origin ancestry, citizenship, ethnicity, creed, religion or religious creed, sex or gender (including gender identity), marital status, sexual orientation, disability (both physical and mental) including HIV and AIDS, medical condition (cancer and genetic characteristics), pregnancy (which includes childbirth, breastfeeding and medical conditions related to pregnancy, childbirth or breastfeeding), age, genetic information, military and veteran status, or any other characteristic protected under applicable law, in the administration of its programs or activities. WesternU also prohibits unlawful harassment, including Sexual Harassment. Lastly, WesternU is committed to providing equal access to and equal opportunities to all members of its campus community in accordance with all applicable laws.

This non-discrimination policy applies to applicants, students, and alumni. Additional nondiscrimination information can be found in the [Nondiscrimination, Anti-Harassment, and Anti-Retaliation Policy document](#) and the University Catalog.

### Reasonable Accommodation for Disabilities

Candidates and students must be able to perform all the essential functions of the program with or without reasonable accommodation. A student who discloses a disability and requests accommodation will be referred to the Harris Family Center for Disability and Health Policy (<sup>HF</sup>CDHP). The student will be asked to provide documentation of the disability for the purposes of determining appropriate accommodations. WesternU CVM will provide reasonable accommodations but is not required to make modifications that would substantially alter the nature or requirements of the program. A student with questions regarding reasonable accommodation may contact the <sup>HF</sup>CDHP office by phone, (909) 469-5441.

### Application Requirements

The application requirements that are shown in this catalog apply to applicants who are seeking entry for the 2022/2023 academic year. Current admission and application requirements for the DVM program, including prerequisite coursework requirements, can be located on the [Prospective Student website](#).

The WesternU CVM Admissions Committee will consider applicants who have earned a grade of “C” or above on all prerequisite courses. Applicants also must attain a minimum cumulative grade point average of 2.75 in all pre-professional coursework taken prior to application and matriculation. Application procedures, materials, and prerequisite courses are subject to revision each year, and the information below provides only general guidelines. Prospective students should consult the [Prospective Student](#)

[website](#) to confirm current application requirements. Applicants are directed to consult both the VMCAS and WesternU websites after June 1 of each application year.

### Test of English as a Foreign Language (TOEFL)

TOEFL is required for all applicants who are not U.S. citizens and for whom English is a second language. Applicants must attain a minimum score of 72 out of 120, with no less than 18 points for each skill criteria (reading, listening, speaking, writing) on the Internet-based Test (iBT). Official TOEFL scores are valid for three years, and valid scores must be submitted at the time of application. EXCEPTION: The TOEFL exam will be waived for students who are graduating with a confirmed baccalaureate or higher degree from an accredited United States institution of higher education at the time of application.

### Standardized Examinations

Each applicant is required to take the Medical College Admissions Test (MCAT) or Graduate Records Examination (GRE) within five years of application and must submit their scores to WesternU CVM for consideration in the admissions process.

### Transcripts

Applicants are required to submit transcripts to VMCAS in accordance with their application policies and procedures. Final official transcripts for all previous institutions attended will be required by WesternU CVM once an applicant has been accepted to the program.

### Animal-Related Experience

WesternU CVM requires that each applicant has no less than 500 hours of hands-on animal-related experience, including but not limited to veterinary clinical practice, farm animal production, public health animal control, animal training, and animal research. The nature of the work must go beyond volunteer effort and generate demands whereby a supervisor may speak to the applicant’s work habits, interest in animal well-being, and personal integrity.

### Prerequisite Courses

Prerequisites	Semester Credit Hours	Quarter Credit Hours	
Organic Chemistry with lab*	3	4	<ul style="list-style-type: none"> <li>All prerequisites must be completed at a regionally accredited US institution (exceptions will be made on a case-by-case basis).</li> <li>All prerequisites must be completed with a grade of “C” or better (a grade of “C-” or lower is not acceptable)</li> <li>All prerequisites must be completed by the end of the spring term of the planned year of starting the veterinary professional program if accepted.</li> </ul>
Biochemistry or Physiological Chemistry	3	4	
Upper Division Biological & Life Sciences with lab*	9	12	
Microbiology	3	4	
Upper-Division Physiology	3	4	

Genetics or Molecular Biology	3	4
General Physics with lab*	6	8
Statistics	3	4
English Composition	6	8
Humanities/Social Sciences/ Psychology/Sociology	9	12

- Prerequisites may be taken on an advanced-placement or CLEP credit basis. These credits must be listed by the university from which the credit was received on the official university transcript. Alternatively, a letter from the registrar detailing courses for which AP or CLEP credit was awarded must be submitted.
  - All coursework taken from non-US institutions must be submitted to an approved service for evaluation.
- \*Only courses with an on-campus laboratory component are acceptable

### Recommendations

A minimum of three letters of recommendation are required and are submitted as part of the primary application.

### Optional Application Materials

Within federal guidelines, the applicant may submit and/or WesternU CVM may request additional information documenting a basis for reasonable consideration under the diversity goals of the college. Scientific publications, or significant academic papers prepared as part of a course work requirement with evaluations included, may be submitted by the applicant, and reviewed by the Admissions Committee in assessing the abilities and experiences of the applicant.

### Applicants with Foreign Coursework

Applicants who wish to use coursework completed outside the United States, including Canada, must submit their transcripts for evaluation to a [Western University of Health Sciences Approved Service](#) at the candidate's expense. A course-by-course evaluation with a GPA calculation is required, and all coursework must be designated as undergraduate, graduate, or professional. WesternU only honors evaluations from World Education Services (WES). The official evaluation must be submitted to and received by VMCAS by the application deadline. A student with questions regarding reasonable accommodation may contact the <sup>HF</sup>CDHP office by phone, (909) 469-5441.

### International Students

International students are encouraged to apply. Applicants who are not U.S. citizens and who are living in the U.S. should be prepared to provide proof of legal U.S. residency at the time of interview. Proof of legal U.S. residency is required prior to any offer of acceptance. For detailed information, please visit our web page for [International Students](#).

### **Transfers from Other Schools**

Due to its unique curriculum, WesternU CVM does not currently accept transfer students from other institutions.

### **Non-degree Students**

Applicants with foreign veterinary degrees may apply for matriculation as non-degree students in the final year of the WesternU CVM curriculum to satisfy requirements for an evaluated clinical experience for the Program for the Assessment of Veterinary Education Equivalence (PAVE) program. Standard charges for tuition and fees apply. More information on the program and the application process can be obtained from the CVM Office of Academic Affairs.

### **Student Selection Process**

The WesternU Office of Admissions assists the college in application processing, including the preparation, distribution, and handling of all admissions-related materials. Applications are reviewed by WesternU CVM faculty using uniform criteria and acceptable applicants are recommended for interview.

Candidates whose application files are deemed acceptable after file review and the interview are considered part of the acceptable pool from which the Dean of the College of Veterinary Medicine, the Associate Dean for Academic Affairs, and the Chair of the Admissions Committee select the class. The college attempts to select a class that reflects broadly diverse characteristics considering gender, ethnicity, areas of critical need in veterinary medicine, economic and educational backgrounds, and species interest of the applicant. Invitations to successful applicants shall originate in the Dean's office and are signed by the Dean.

### **Registration**

All WesternU students are required to register by the registration deadlines specified by the University Registrar. Registration dates are posted on the [Registrar's Office](#) website. Failure to register by the deadline may be grounds for administrative withdrawal. All students registering after the posted deadline will be assessed a \$30.00 per business day late fee.

Full tuition and fees and all prior debts must be paid in full on or by posted deadlines each academic year. Matriculation is subject to the satisfactory completion of all academic requirements and payment of all outstanding debts to WesternU. The receipt of the final transcript(s) from all colleges/universities attended and a physical examination with documentation of required immunizations (if applicable) prior to registration are additional requirements for incoming students.

### **Registration Late Fee Appeals**

Students assessed a late fee for a registration period may submit an appeal to the Registrar. For additional information on the appeal process, please see the [Registration Late Fees](#) page on the Registrar's Office website.

### **Student Health Insurance Requirement**

All full-time students at WesternU are required to have active health insurance while enrolled. All students are automatically assessed half of the entire year's insurance premium and will be enrolled in the student health insurance plan until they submit proof of coverage that meets the University's requirements. For

additional information on student health insurance requirements and/or waiving out of the student health insurance plan, please see the [Student Health Insurance](#) page on the Registrar's Office website.

### **Student Orientation/Welcome Week**

Attendance at all Orientation/Welcome Week activities is mandatory for all incoming first-year students. Failure to attend any part of Orientation/Welcome Week without prior approval from the Office of Student Affairs may result in the rescindment of the offer of acceptance.

Attendance at all second-, third-, and fourth-year orientation activities is mandatory for all students in their respective year. Failure to attend any part of these activities without prior approval from the appropriate Year Director may result in disciplinary action.

### **Student-Initiated Changes in Enrollment Status**

#### ***Leave of Absence***

A student may request a Leave of Absence with the occurrence of a medical emergency or illness, personal issues, financial hardship, or military service. Students must be in good academic standing to be eligible for a Leave of Absence. For additional information on the University's Leave of Absence policy, please see 'Student Initiated Changes in Enrollment Status' in the University Catalog, General Academic Policies and Procedures section.

#### ***Withdrawal from University/Academic Program***

Matriculation at the University is a privilege granted in consideration of specified levels of performance and of maintaining the established standards of scholarship and personal and professional conduct. The University reserves the right to require withdrawal at any time it deems necessary to safeguard its standards of scholarship, conduct, and orderly operation. The student concedes this right by the act of matriculation. For additional information on withdrawing from the DVM program, please see 'Student Initiated Changes in Enrollment Status' in the University Catalog, General Academic Policies and Procedures section.

### **Full-Time/Part-Time Status**

All students enrolled in at least one class/rotation are considered full-time students.

### **Time Limits**

The DVM program is designed to be completed in four (4) years of full-time study. The requirements for the degree must be fulfilled within six (6) years from the date of matriculation to the program. Students who are unable to meet the 6-year time limit for the DVM program may be subject to administrative withdrawal.

## Tuition and Fees

By action of the Board of Trustees, DVM tuition and fees for the 2021/2022 academic year (subject to change) are as follows:

\$56,535.00	Annual Tuition
\$40.00	Student Body Fee (Years 1 and 2)
\$20.00	Student Body Fee (Years 3 and 4)

## Modified Curriculum/Repeated Coursework Tuition Rates

Students enrolled in a modified curriculum or who are directed to repeat one or more courses but not the entire academic year are charged a per credit hour tuition rate. This rate is calculated by dividing the total credit hours required for a class year by the annual tuition. The per credit hour rates for 2021/2022 are shown below:

\$1,346.07	DVM Year 1 Modified Curriculum Per Credit Hour Charge
\$1,346.07	DVM Year 2 Modified Curriculum Per Credit Hour Charge
\$1,662.79	DVM Year 3 Modified Curriculum Per Credit Hour Charge
\$1,713.18	DVM Year 4 Modified Curriculum Per Credit Hour Charge

## Other Fees and Expenses

\$120.00	SCAVMA Membership*
\$30.00	Registration Late Fee (Per Business Day)
\$50.00	Late Payment Fee (per month)
\$350.00	Graduation Fee
\$470.00	Annual Parking Permit (Auto)
\$40.00	Locker Key Replacement Fee
\$10.00	Official Transcript (Each)
\$21.00	Rush Transcript, First Class Mail (Each)
\$25.00	Rush Transcript, Federal Express (Each)
\$10.00	Student ID Replacement Fee
\$TBD	Breakage Fee (Replacement Cost)

*\*All first year DVM students are assessed a \$120.00 SCAVMA Membership fee that covers all four years of the program. Students who wish to opt out of SCAVMA membership should contact the Office of the Registrar at 909-469-5342.*

## Other Student Expenses (Estimated)

\$1,500.00	Estimated Costs for Textbooks (Per Year)
\$675.00	Required Equipment (Year 1)
\$250.00	Required Equipment (Years 2-4)
\$1,800.00 - \$3,000.00	Required Laptop Computer (with Webcam) and personal mobile device
\$1,000.00	Computer Peripherals (Printer, internet access, software, etc. per year)
\$150.00	Estimated Clinical Activity Travel (Years 1-2)
\$2,000.00 - \$3,000.00	Estimated Clinical Activity Travel (Year 3)

\$2,500.00 - \$10,000.00

Estimated Clinical Activity Travel and Lodging (Year 4)

### **Computer Technology**

Each WesternU CVM student is required to have a laptop computer that meets the specifications outlined on <http://www.westernu.edu/computing/computing-students/>.

The laptops will be used for e-mail communication with classmates and faculty, for accessing computer- and server-based course information, instructional software, online bibliographic databases, electronic bibliographies, and for participating in course exercises/activities/exams. Computers will be needed by students on campus as well as at their local residences and when rotating in off-campus courses/rotations; therefore, laptop computers are required instead of desktop models. In addition, each student must have access to a printer, the Internet (including hotspot for clinical experiences for Years 3 and 4), and a webcam.

These specifications are subject to change. The college reserves the right to impose uniform requirements for computer technology and software, including the possible requirement of a specific model of laptop computer and/or personal mobile device.

### **Clinical Training Expenses**

Students will rotate through off-campus clinical training experiences during all four years of the curriculum. For first- and second-year students, all clinical training activities will occur within a 60-mile radius of the University campus, and students are responsible for travel expenses to and from these locations. Most third-year clinical training activities will occur within a 60-mile radius of the University campus. Students are responsible for travel expenses to and from all locations in California and Arizona. Lodging will be provided for certain third-year courses that require student travel beyond the 60-mile radius. Lodging and travel will be provided for most out of state third-year course sites. All meals and other personal expenses will be the responsibility of the student. Fourth-year student-selected clinical training activities may occur worldwide. Any travel, food, housing or other expenses incurred by participating in fourth year Core or Selective Clinical Rotation course activities are the responsibility of the student. In addition, third- and fourth-year students are required to return to campus for various required activities. Travel costs to attend required on-campus activities are the responsibility of the student. Under special circumstances, requests for additional financial aid support may be directed to the Financial Aid office.

### **International Travel**

Students who would like to travel internationally for any fourth-year rotation must complete the required application forms at least three months prior to the clinical rotation. Students must contact the Director of Year 4 Curriculum ([cvmdirfourthyear@westernu.edu](mailto:cvmdirfourthyear@westernu.edu)) for the required forms.

### **Licensing Examination Fees**

Licensing examinations may be taken during the fourth year of the curriculum. Fees, application requirements, and scheduling requirements are determined by national and state examination services and are the responsibility of the student. Application procedures and fees are described on <https://www.icva.net>, and the web site for the California Veterinary Medical Board is <http://www.vmb.ca.gov>.



### **Felonies and Misdemeanors**

A background check may be required for some academic activities and is required for veterinary licensure. Some misdemeanor and felony convictions may limit a student's eligibility to participate in specific educational activities of the curriculum. This may restrict a student's ability to complete the program and receive a veterinary degree. Additionally, misdemeanor and felony conviction may restrict a graduate's eligibility for veterinary licensure in some states, as well as bar the individual from obtaining a DEA license, which is needed for dispensing and prescribing controlled substances. Applicants and students are encouraged to self-report these items to the college and seek to proactively address these potential restrictions.

## **General Academic Policies and Procedures**

### **Academic Advisement**

Students are assigned a faculty advisor, who provides students the opportunity to develop sustained, individual advisement on academic and professional levels. Students may request a change of advisor, if needed, through the office of the Associate Dean for Academic Affairs (or designee).

### **Attendance and Absences**

Attendance requirements are provided in each course syllabus.

For planned absences, students must complete and submit a Student Absence Form 30 days in advance. In the case of an unplanned absence, appropriate documentation must be provided to the Associate Dean for Academic Affairs (or designee) as soon as reasonably possible, and no later than the day the student returns to class or campus. Absence from any curricular activities due to any unforeseen circumstances, including illness, should be reported to the Course Leader, Year Director, Assistant Dean for Student Affairs and/or the Associate Dean for Academic Affairs by telephone or e-mail within 24 hours of an absence, except in those cases of severe hardship. Absence from curricular activities for any reason does not relieve the student from responsibility for the material covered during these periods. Students should consult individual course syllabi and year-specific student handbook for details. Unexcused absences may result in disciplinary action and may include failure of a course or dismissal from the program.

Planned absences longer than 29 consecutive days constitute a Leave of Absence and require completion of a Student Initiated Status Change Form and submission of required documentation. Requests for Leave of Absence are reviewed and approved by the Dean (or designee). The Dean has authorized the Associate Dean for Academic Affairs to handle such requests and inform the office of the Dean of all decisions.

### **Examinations**

Students are required to be present for all scheduled examinations. Students may not begin an examination any later than fifteen minutes after the scheduled start of the test without permission from the Course Leader or the Associate Dean for Academic Affairs (or designee). No additional time will be given to a student who begins an examination late. For a student to be allowed to take any examination other than at the scheduled time, approval must be received from the appropriate Course Leader. If a student misses an examination, appropriate documentation (e.g., health care provider note) justifying the absence must be provided to the Course Leader, who will determine whether the absence is acceptable. If the absence is excused the student will be permitted to take a make-up examination, the nature and time of which will be determined by the Course Leader. If the absence is not excused by the Course Leader the student may appeal (in writing) the Course Leader's decision within five business days to the appropriate Year Director.

### **Social Media and Networking**

There are many potential benefits to social networking web sites; however, it is important to also recognize and consider the inherent risks that may come with their use. In an effort to inform and protect students, WesternU employees, preceptors, clinical sites, their partners, their owners, and their patients, the college recommends that students consider the following:

- Understand that online presence can negatively reflect upon professional image – weigh the risks and benefits of self-disclosure;

- Remember that electronic sites are never completely secure and that what is posted can be seen by many – including an unintended audience;
- Respect copyright laws, and reference or cite sources appropriately, plagiarism applies to online materials as well as in print;
- Remember that WesternU, college or hospital partner logos and trademarks may not be used without written consent from the owner(s) of that logo or trademark;
- Respect the delicate relationship between patient/client and health care provider; student and faculty member; and employer and employee;
- Ensure that information posted complies with existing policies and laws governing privacy and dissemination of data (e.g., HIPAA, FERPA, etc.);
- Clearly state that the views expressed do not represent the views of others; and
- Review the privacy policy of the sites used and consider personal and property safety when posting information online.

The college forbids the posting of material (images, video, text, etc.) relating to any students, WesternU employees, preceptors, clinical sites, their partners, their owners, and their patients in any form to any public, social media, or social networking site (Facebook, Twitter, Instagram, Snapchat etc.) without the permission of those involved. Pictures of students, WesternU employees, preceptors, clinical sites, their partners, their owners, and their patients may not be posted without prior approval of those involved. When posting approved material, approval should be noted in the post. Students are required to maintain and respect client, patient, preceptor, and clinical site and their partners' confidentiality as well as respecting the dignity of all animals and their owners. Posting of these materials without appropriate permissions will be considered a violation of WesternU's Standards of Academic Integrity, Professionalism, and Student Conduct.

### **University Policies Governing the Recording of Still or Motion Images**

Recording is defined as the capturing of events or activities, in a permanent or semi-permanent format, for viewing, or in some way experiencing aspects of the activity or event later. This includes, but is not limited to audio, video, and still photo.

To ensure that the utmost respect is displayed to the family and the animal cadavers received through the Willied deceased Animals for Veterinary Education (W.A.V.E.) program; the patients in the WesternU Pet Health Center; the WesternU Faculty, Staff and Students; and all third party educational partners, photography of the cadavers, patient, employees, students, and the public is not allowed unless specific guidelines are met.

It is the policy of the CVM that taking photographs in the Multi-Discipline Classroom (MDC) is permissible only if it is for educational purposes and maintains the respect and dignity of the animal cadavers and their families.

Limiting factors are as follows:

1. Faces and distinguishing markings of animal cadavers are covered so that positive identification cannot be made when looking at the photograph and are limited to only the area being studied.
2. MDC staff is given appropriate notice prior to a professional photography session.

Above all else, photographs containing any animal cadaveric specimen(s) MUST NOT be posted to the internet or in any public forum, or to be used for any commercial intention unless written permission is granted by the Dean of WesternU CVM.

### ***Recording of Curricular and Research Activities***

Recording of events or activities by any means (including, but not limited to, audio, video, still photo, smartphones, etc.) that take place at teaching, training, and research venues used by the college (including, but not limited to, on-campus laboratories, private veterinary clinics, farms, animal facilities, laboratories, etc.) is governed by the following principals:

- Prior authorization of the faculty, researcher, preceptor, and/or the patient owner (depending on the activity) is required.
- Recorded material, including course presentations, must be for private personal use and cannot be shared with others through any means (including, but not limited to, social media, text, email, discussion board, etc.) without approval to do so by the faculty, preceptor, and/or the patient owner.
- Recording of research events or activities shall be authorized by IRB, IACUC, and/or subjects involved before the recording is made.
- Recordings of research events or activities may be collected for the Principal Investigator (PI) with approval from and under the supervision of the PI.

Violation of this policy will be deemed a violation of the code of Academic and Professional Conduct and will be referred to the Office of the Associate Dean for Academic Affairs and/or relevant college committee, as applicable.

All recordings should conform to the WesternU Standards of Academic Integrity, Professionalism and Student Conduct as defined in the University Catalog.

For policy information regarding capturing (e.g., audio, video, still photo, etc.) of events or activities in the MDC, please refer to the policy "Still or motion photography in the MDC".

If in doubt about recording or capturing of any activity, please consult the faculty member or preceptor directing the event and obtain permission. If these individuals are not available, contact the office of the Assistant Dean for Student Affairs before recording the activity.

### **Survey Policy and Procedures**

The CVM defines a survey as a gathering of information to make inferences about our students, staff, faculty, and CVM-affiliated populations. The purpose of this policy is to manage survey requests, to prevent survey fatigue, to protect the confidentiality of our veterinary medicine community, and to ensure that the process of data collection conforms to standard practices.

All requests to distribute widespread surveys to any members or prospective members of the CVM community (e.g. applicants, students, faculty, staff, preceptors, clinical sites and staff, board members, and alumni) must be approved by the Director of Outcomes Assessment or the Dean or designee.

### ***The Approval Process***

#### **External Surveys**

The external institution(s) or individual(s) wishing to conduct a survey must provide all of the following information at least 4 weeks prior:

- Description of the survey project, including the purpose and intended use of results;
- Specific population receiving the survey;
- Method of survey distribution (e.g. online or hard copy, via email, in class, at an event, etc.);
- Timeframe for administering the survey, including beginning and end dates;
- Description of any planned incentive program for respondents;
- Current draft of the survey and all invitation and cover letters;
- A copy of the institutional review board approval; and
- Evidence that the survey has been reviewed and accepted by the AAVMC (if appropriate).
- The College requests that the results of the survey be provided to the College upon completion.

#### **Academic Research Surveys**

The individual(s) wishing to conduct a survey must provide all of the following information at least 4 weeks prior:

- Contact information for the person responsible for the survey;
- Description of the survey project, including the purpose and intended use of results;
- Specific population receiving the survey;
- Method of survey distribution (e.g. online or hard copy, via email, in class, at an event, etc.);
- Time frame for administering the survey, including beginning and end dates;
- Detailed procedures to ensure confidentiality or anonymity of the data;
- Description of any planned incentive program for respondents;

- Current draft of the survey and all invitation and cover letters; and
- A copy of the institutional review board approval.
- The Office of Institutional Research and Effectiveness (OIRE) works with the researcher to ensure that the survey administration does not conflict with other surveys being administered to the same study population.

### **Institutional Surveys**

Surveys used for review of and/or improvement in the CVM program should be developed in consultation with the Office of Institutional Research and Effectiveness (OIRE) or the Associate Dean for Academic Affairs and the Office of the College Outcomes Assessment (OCA). The OIRE or OCA will review the surveys providing feedback and will work to ensure that the survey administration does not duplicate current efforts or conflict with other surveys being administered through the college. Upon request, the OIRE or OCA may provide data analysis and summary reports to the appropriate personnel and/or committees.

### **Protocol for Input on Matters of Student Concern**

When an issue or dispute arises between students, the issue/dispute resolution process starts with communication among the involved students. If a satisfactory resolution is not arrived at that level, the matter should then be addressed with the faculty advisor or course leader, if appropriate. If the problem is not resolved at the faculty advisor/course leader level, the matter should be brought to the appropriate college's Student Affairs personnel, then the College Dean. If the matter has not been resolved at those levels, the final arbiter is the SVP/Provost.

When an incident arises involving a faculty member, the first step in the issue/dispute resolution process is discussion with the faculty member. If the matter is not satisfactorily resolved at that level, then the matter should be referred to the Year Director, then Dean, in that order. The final arbiter is the SVP/Provost. Please note that grade appeals cannot be handled under this protocol.

When an incident arises involving a staff member, the dispute resolution process begins with the Supervisor, Director of Operations, and Assistant Dean for Student Affairs followed by the Dean. The Office of Human Relations is the final arbiter.

Failure to follow this sequence of steps will only serve to delay the appropriate resolution of the issue or dispute as the matter will only be referred back to the correct level in this chain of responsibility.

## **Standards of Academic Integrity, Professionalism and Student Conduct**

The University Standards of Academic Integrity, Professionalism, and Student Conduct can be located in the University Catalog. Students are expected to be aware of, and abide by, applicable University and College policies.

### **Standards of Academic Progress**

WesternU CVM students must maintain a cumulative grade point average (GPA) of at least 2.00 on a yearly basis to be considered making satisfactory academic progress. Students who have earned a grade of "U" or "NCR" in any course or have a cumulative GPA below 2.00 will be referred to the Student Performance Committee (SPC) for review and recommendation to the Associate Dean for Academic Affairs.

#### **Student Performance Committee (SPC)**

The SPC is comprised of seven faculty members and the following ex-officio member and non-voting members: Associate Dean for Academic Affairs, the Assistant Dean for Student Affairs, and the Director of Learning Enhancement & Academic Development (LEAD) Office. The SPC shall review the performance and comprehensive evidence of the progress of students who are pursuing the DVM degree. Particular attention will be given to students in academic difficulty, as their grades are made available to the SPC by the Registrar or Dean of WesternU CVM. For purposes of clarification, "performance" is defined as those activities of a behavioral-conduct or academic nature that negatively affect or impair the continued ability of a WesternU CVM student to matriculate, successfully, within CVM. The office of the Dean and Associate Dean for Academic Affairs may provide additional input to this process.

After reviewing a student's performance records, the SPC will recommend to the Associate Dean for Academic Affairs any of the following courses of action: promotion, probation, remediation, or dismissal from the College; academic or conduct suspension; educational assessment and other appropriate recommendations. It may also recommend that no action be taken. After considering the recommendations of the SPC, the Associate Dean for Academic Affairs will provide a recommendation to the Dean, who will then provide the final decision. The student will be notified in writing of the final decision. The SPC also has the responsibility of recommending to the faculty, as a whole, the awarding of the DVM degree to all students who satisfactorily complete all requirements for graduation as stated in the University Catalog.

While the SPC addresses situations that cover academic performance, professionalism and student conduct, there may be times where the hearing process in the University's catalog supersedes the College catalog. Generally, this occurs when a student is alleged to be in violation of the University's Standards of Student Conduct. In the event that the University Catalog applies, the CVM will follow all University hearing policies and procedures as applicable. For further information regarding the University hearing process, please refer to "Information for Students about Hearings Involving Alleged Violations of the Standards of Student Conduct," located in University Catalog.

#### **Promotion**

Promotion is defined as academic progression to the subsequent academic year. Students must maintain a cumulative grade point average of at least 2.00 in CVM courses in order to be promoted. Students must also successfully complete the prerequisite courses necessary for enrollment into subsequent courses. Students may not be promoted with a grade of "I", "U", or "NCR" on a required course. Additional fees may apply for remediation or repeated courses.

In addition to the successful completion of Year 1 and 2 courses, CVM also has progression requirements that need to be met in order for students to progress to Year 3. The College requires that students demonstrate proficiency in anatomy, behavior, epidemiology, genetics, immunology, microbiology, nutrition, parasitology, pathology, pharmacology, physiology, and toxicology. Proficiency levels are determined in the CVM 5000, 5020, 5100, 5120, 6000, 6020, 6100, 6120 courses, and students should review course syllabi, which specify the minimum proficiency levels required for successful progress. If a student's performance does not meet the minimum proficiency levels required for successful progress at the end of Spring Semester in Year 2, students will need to meet with the designated CVM content expert (or in the absence of the content expert, the Course Leader) and successfully complete assignments designed to ensure that they meet the minimum requirements.

A student who is unable to meet the minimum requirements for promotion by July 15 will be referred to the SPC for review and recommendation to the Associate Dean for Academic Affairs. The Associate Dean for Academic Affairs will provide a recommendation to the Dean, who will then provide the final decision, which may include repeating the year or dismissal.

Promotion will be revoked if the student fails to meet all academic, legal, ethical/professional conduct, health/immunization/radiation monitoring and financial requirements of the college and/or University.

### **Graduation**

A student will be recommended for the Doctor of Veterinary Medicine degree when the student meets the following requirements:

1. Has completed all prescribed academic and clinical requirements with a cumulative grade point average of 2.00 or above and has no outstanding grade of "I," "NCR" or "U" in any required or selective course.
2. Must be in good academic standing (not on probation or suspension).
3. Has reported their scores and score breakdown from the North American Veterinary Licensing Examination, if the exam has been completed.
4. Has not demonstrated serious deficiencies in ethical, professional, or personal conduct, as defined in the WesternU Catalog, "General Academic Policies and Procedures" section, which would make it inappropriate to award the degree of Doctor of Veterinary Medicine.
5. Has complied with all the legal and financial requirements of the University as stated in the WesternU Catalog.
6. Has attended in person and participated in the Commencement ceremony at which time the Doctor of Veterinary Medicine degree is conferred. Unless special permission has been granted by the Dean, each student must participate in their respective commencement ceremony. If the Dean grants special permission for excusal from commencement, the graduate may be required to present themselves to the Dean or their designee at another specified date to take their profession's oath before their diploma will be released. Requests for excusal will only be granted for extenuating circumstances.



Students will be allowed to participate in commencement activities provided they will complete all requirements of the program by December 31 of that calendar year. No student will receive their degree until the student has completed all requirements for graduation. Degrees will be dated as appropriate to the completion date.

## **Adverse Actions**

### ***Probation***

Students may be placed on academic probation or academic suspension by the Dean for any of the following reasons:

1. Inadequate academic progress, as defined above in the section on Satisfactory Progress and Promotion;
2. A pattern of unexcused absences from scheduled curricular activities;
3. Ethical, professional, or personal misconduct as defined in the WesternU and/or CVM Standards of Academic Integrity, Professionalism and Student Conduct.
4. A semester GPA of less than 2.00; or
5. Receipt of a “U” or “NCR” grade in any course.

Students on probation must meet with their faculty advisor once a month and complete required documentation. At the discretion of the faculty advisor, these meetings can be via electronic communication, over the phone, or in person. It is the student’s responsibility to contact the faculty advisor to arrange these meetings or contacts. Students on academic probation must bring their cumulative GPA to a 2.00 or greater and/or satisfactorily remediate deficient coursework within two semesters of the imposition of academic probation. Other requirements may be specified by the Dean and will be communicated in writing to the student.

Upon meeting the requirements to be taken off academic probation, it is the student’s responsibility to provide all documents and a request in writing to be taken off academic probation. These documents are to be provided to the Office of the Associate Dean for Academic Affairs. Students who do not meet the specified requirements to be removed from academic probation may be subject to further disciplinary actions. A student may not graduate (receive a diploma) unless all requirements for removal from academic probation have been fulfilled.

Students on academic probation are not permitted to hold leadership positions in extracurricular activities associated with the University and/or college. If it is found that the student has not resigned from all leadership positions in extracurricular activities associated with the University or college, they will be violating the conditions of academic probation and thus will be subject to administrative action as discussed in the University Catalog under the section ‘Standards of Academic Integrity, Professionalism and Student Conduct.’

### ***Financial Aid Warning Policy (Title IV and Title VII)***

If a student is not making Satisfactory Academic Progress (SAP) they may be placed on “Financial Aid Warning” status for the next payment period and continue to receive financial aid for that period. Financial Aid is any financial assistance offered to the student for paying for their education, such as loans,

scholarships, Federal Work-Study, grants and stipends (judged on the criteria of the stipend). Students who fail to make SAP by the end of the payment period lose Financial Aid eligibility.

It is the policy of the Financial Aid Office (FAO) that once a student has been placed on academic probation for not meeting SAP standards as defined by the college, the FAO will automatically place the student in a Financial Aid Warning status. During the next academic term, if the student does not meet SAP standards and the college places the student on academic suspension, the student will no longer be eligible for financial aid. If the student appeals the academic suspension and the appeal is approved, financial aid will be reinstated. If the student is directed to audit courses, those courses will **not** be covered by financial aid.

### ***Academic Assistance Program***

Students experiencing academic difficulty may seek assistance from the Assistant Dean for Student Affairs and/or the LEAD office ([LEAD website](#), [lead@westernu.edu](mailto:lead@westernu.edu) or (909) 469-5325).

### ***Lack of Satisfactory Progress***

In accordance with the WesternU Catalog, correction for lack of satisfactory progress in the program as defined in the previous section (Promotion) is approved by the Dean after consultation with appropriate academic personnel, which may include course leaders, content experts, the SPC, the appropriate Year Director and/or the Associate Dean for Academic Affairs. Options for correction include remediation and repeating all or a portion of the curriculum.

A student required to correct lack of satisfactory progress must be notified in writing by the Dean or designee. Notification is sent by certified mail, to the students' official address on university record or hand-delivered to the student and must be acknowledged with the signature of the student.

### ***Remediation***

Remediation is defined as completing an academic exercise designed by the course leader and/or content expert(s) to address particular deficiencies demonstrated by the student. These remediation exercises may be of various lengths of time (depending on the demonstrated severity of deficiencies) but generally will not exceed one semester in duration.

Upon successful remediation, the transcript is notated with the grade earned alongside the original grade. A student who originally received a "U" grade and who remediates successfully, will have a grade of "U/C" entered on their transcript. The amount of tuition charged for remediation is determined on a case-by-case basis and at the discretion of WesternU CVM. After completing remediation, the highest grade a student will be able to achieve for the course will be a 'C' or 'PA'.

### ***Repeating Curriculum***

If a student is directed to repeat a course or a clinical rotation in its entirety, the grade for the repeated course will be recorded on the official transcript separately and within the semester the repeated course was completed. The original course grade will remain recorded in the semester it was originally taken. Students will be charged full tuition for repeated coursework.

If a student is required to repeat the academic year, the original grades will remain listed on the transcript in the original semester(s) and the repeated course grades will be recorded in the semester they were completed. Students will be charged full tuition for repeating the academic year.

Only the repeated grade(s) for the course(s) will be included in the student's GPA calculation.

### ***Academic Suspension***

Students required to repeat a given academic year or portion thereof will be placed on academic suspension until they can resume their studies. Once the student resumes their studies, the student will be placed on academic probation until all coursework has been satisfactorily repeated. A student may not receive financial aid during any time of a suspension.

### ***Summary Suspension***

Actions that threaten or endanger, in any way, the personal safety, and/or well-being of self or others, or that disrupt or interfere with the orderly operation of the College or University are cause for immediate disciplinary action. Either the University President, SVP/Provost, or Dean of CVM has the authority to summarily suspend a student when the student admits to guilt or when, in the opinion of these entities, such action is appropriate to protect the health or safety of any individual, or to preserve the orderly operation of the University. Further details regarding the summary suspension action can be found in the University Catalog.

### ***Dismissal***

The Dean of the CVM may dismiss a student from the program for one or more of the following reasons:

1. Earning a cumulative GPA of less than 2.00;
2. Failing one course or clinical rotation;
3. Failing to successfully repeat or remediate any required course;
4. Receiving a "U" or "NCR" while on academic probation, regardless of the student's GPA;
5. A pattern of unexcused absences from scheduled curricular activities;
6. Failing to meet requirements of academic probation; and/or
7. Ethical, professional, or personal misconduct as defined in the WesternU and/or CVM Standards of Academic Integrity, Professionalism and Student Conduct.

### ***Readmission***

Students dismissed from the program must reapply to be considered for readmission. All students readmitted after being dismissed will be subject to all curricular requirements in effect at the date of re-matriculation. Failure to achieve these requirements will result in permanent dismissal from the program. All readmitted students will be placed on academic probation for one year from the date the student matriculates into the program and may be dismissed at any time due to unsatisfactory performance. Exceptions to these requirements may be granted by the Dean after consultation with the Associate Dean for Academic Affairs.

### ***Student Appeal Process***

In accordance with the University catalog, the Dean shall have authority to make decisions regarding a student's status in matters of academic progression/promotion, suspension, student conduct, dismissal and graduation. Students may request an appeal of the Dean's decision to the SVP/Provost by following the process defined in the 'Student Appeal Process' section of the University Catalog.

## Evaluation and Grading

WesternU CVM uses the following letter grades as defined in the specific course syllabus:

### Grading Scale, Years 1-3

<u>Grade</u>	<u>Equivalent</u>	<u>GPA Points</u>
A	Excellent	4.00
B	Good	3.00
C	Adequate	2.00
U	Unsatisfactory/Fail	0.00
CR	Credit	N/A
NCR	No Credit	N/A

### Grading Scale, Year 4

<u>Grade</u>	<u>Equivalent</u>	<u>GPA Points</u>
H	Honors	4.00
PA	Pass	3.00
U	Unsatisfactory/Fail	0.00
CR	Credit	N/A
NCR	No Credit	N/A

### Administrative Grades

<u>Grade</u>	<u>Equivalent</u>	<u>GPA Points</u>
AU	Audit	N/A
I	Incomplete	N/A
M	Missing	N/A
TR	Transfer	N/A
W	Withdrawal	N/A
WPC	Waived for Prior Credit	N/A

### Incomplete

An “I” (Incomplete) is assigned to a student who does not complete all course requirements because of unexpected or unavoidable circumstances (e.g., death of a family member, personal illness, or personal injury). If a student does not successfully complete the course requirements for which the “I” was assigned prior to the end of the following academic semester and/or the scheduled promotion to the next year, a “U” grade for that course will be issued. If the course is successfully completed, the “I” grade is notated with the grade earned. For example, a student with an “I” grade who completes the course with an “A” grade, will have the grade notated on the transcript as “I/A”.

### Audit

An “AU” (Audit) is assigned to a student who pays tuition for the course and attends class activities but does not complete examinations and does not receive course credit. However, under certain circumstances, at the discretion of the Dean, a student who is repeating or undergoing remediation may

be required to complete course examinations and/or other required work products while auditing the course for no grade.

### **Withdrawal**

A “W” (Withdrawal) is assigned to a student who initiates a voluntary withdrawal prior to the administration of the final exam or the final day of a clinical course or rotation. Students may also be assigned a “W” by the Office of Academic Affairs.

### **Grade Reports**

Course grades are electronically entered by the Course Leader into BanWeb. Grades may be viewed, and unofficial transcripts are available on the Banner student record system. The student must satisfy course requirements as defined by the course syllabus and clinical handbook to receive academic credit. Course syllabi and clinical handbooks inform students of the levels of academic accomplishment required for each grade.

A semester grade point average and a cumulative grade point average are calculated and posted on each student's transcript. Class ranking is also available upon request from the Registrar's Office.

### **Grade Changes**

Grade changes will be initiated by the Course Leader, using the appropriate form, and approved by the Year Director and Associate Dean for Academic Affairs. All recorded grades remain on the official transcript unless a clerical error is discovered.

### **Appeal of Recorded Grades**

Grade appeals must first be submitted to the Course Leader. The Course Leader will decide if the student appeal has sufficient merit to alter a grade. If the grade is not altered and the student wishes to continue with the appeal process, the next appeal is to the appropriate Year Director followed by the Associate Dean for Academic Affairs, then the Dean. Changing a course leader's decision should be based on failure to follow grading procedures or errors in calculation. At any step in the process, the Course Leader should be given the opportunity to change the grade given sufficient evidence of an error.

The appeal request must be accompanied by a narrative explaining the basis for the appeal. The narrative should fully explain the student's situation and substantiate the reason(s) for the appeal or for advocating a reversal of a prior decision.

Students will have a maximum of five (5) business days after they are notified by the Course Leader that course grades have been posted by the Registrar. The student should notify in writing (e-mail is acceptable), the Course Leader and respective Year Director of their intention to appeal any errors or irregularities in grading. At each level, the student will have five business days to submit a further appeal and the administrator (Course Leader, Year Director, etc.) will review the case. Within ten (10) working days, the administrator will either; a) issue a decision in writing to the student, which may affirm, modify, or reverse the previous action or b) issue a notice to the student that additional time is required to adjudicate the appeal due to the need to gather additional information. The decision of the Dean will be final.

### **Credit Hour Calculations**

WesternU CVM follows the WesternU Credit Hour Policy, which defines one credit hour as 15 contact hours plus an average of 30 hours out of class. Given that the pace of learning and studying is not identical for everyone, it is understood that actual time on task will vary from student to student.

This formula will be applied to instructional terms of any duration. An equivalent amount of time on task (i.e., contact time + out of class student work) per credit hour is required for non-classroom based academic activities such as laboratory or small group practice, clinical rotations, asynchronous online or distance instruction, and other non-classroom modalities and delivery methods. Calculation of credit hours will be rounded to the nearest 0.5 credit hours per course.

## Curriculum Organization

A passing grade for each of the following courses must be recorded with the Registrar in order to meet the curricular requirements for the DVM degree.

### Year 1

Year 1, Fall Semester		
Course	Title	Credit Hours
CVM 5000	Veterinary Basic and Medical Sciences I	8.00
CVM 5020	Veterinary Basic and Medical Sciences II	8.00
CVM 5030	Molecular and Cellular Biology I	1.00
CVM 5040	Veterinary Issues I	2.00
CVM 5060	Veterinary Clinical Sciences and Skills I	2.00
IPE 5000	Patient Centered Cases I	1.00
<b>Semester Total:</b>		<b>22.00</b>
Year 1, Spring Semester		
Course	Title	Credit Hours
CVM 5100	Veterinary Basic and Medical Sciences III	8.00
CVM 5120	Veterinary Basic and Medical Sciences IV	8.00
CVM 5130	Molecular and Cellular Biology II	1.00
CVM 5140	Veterinary Issues II	2.00
CVM 5160	Veterinary Clinical Sciences and Skills II	2.00
IPE 5100	Patient Center Cases II	1.00
<b>Semester Total:</b>		<b>22.00</b>
<b>Year 1 Total:</b>		<b>44.00</b>

### Year 2

Year 2, Fall Semester		
Course	Title	Credit Hours
CVM 6000	Veterinary Basic and Medical Sciences V	8.00
CVM 6020	Veterinary Basic and Medical Sciences VI	8.00
CVM 6030	Molecular and Cellular Biology III	1.00
CVM 6040	Veterinary Issues III	2.00
CVM 6060	Veterinary Clinical Sciences and Skills III	2.00
IPE 6000	Team Training in Health Care I	1.00
<b>Semester Total:</b>		<b>22.00</b>
Year 2, Spring Semester		
Course	Title	Credit Hours
CVM 6100	Veterinary Basic and Medical Sciences VII	8.00
CVM 6120	Veterinary Basic and Medical Sciences VIII	8.00
CVM 6130	Molecular and Cellular Biology IV	1.00
CVM 6140	Veterinary Issues IV	2.00
CVM 6160	Veterinary Clinical Sciences and Skills IV	2.00
IPE 6100	Team Training in Health Care II	1.00
<b>Semester Total:</b>		<b>22.00</b>
<b>Year 2 Total:</b>		<b>44.00</b>

### Year 3

Year 3		
Course	Title	Credit Hours
CVM 7000A	Financial and Practice Management	0.50
CVM 7000B	Financial and Practice Management	0.50
CVM 7010	Small Animal Practice I	2.00
CVM 7011	Small Animal Practice II	2.00
CVM 7012	Small Animal Practice III	2.00
CVM 7013	Small Animal Practice IV	2.00
CVM 7020	Livestock Practice I – Dairy	2.00
CVM 7021	Livestock Practice II – Meat and Fiber	2.00
CVM 7025	Population Health and Production	2.00
CVM 7030	Equine Practice I	2.00
CVM 7031	Equine Practice II	2.00
CVM 7035	Surgery/Anesthesia	2.00
CVM 7040	Diagnostic Laboratory & Pathology	2.00
CVM 7045	Laboratory Animal & Research	2.00
CVM 7050	Zoo Animal & Wildlife	2.00
CVM 7055	Veterinary Public Health	2.00
CVM 7060	Food & Feed Safety	2.00
CVM 7065	Global Health	2.00
CVM 7090	Third Year Student Presentations	1.00
<b>Year 3 Total:</b>		<b>34.00</b>

### Year 4

Year 4		
Course	Title	Credit Hours
CVM 7510A/B CVM 7515	Core Veterinary Internal Medicine Rotation <b>OR</b> Core Food Animal Medicine Rotation	4.00
CVM 7520A CVM 7520B	Core Surgery (Small Animal) Rotation <b>OR</b> Core Surgery (Equine) Rotation	4.00
CVM 7525	Core Veterinary Career Development	1.00
CVM 7530 – CVM 7599	Selective Clinical Rotations (6)	24.00
<b>Year 4 Total:</b>		<b>33.00</b>



## Course Descriptions

Courses listed in this Catalog are subject to change. New courses and changes in existing course work are initiated by the faculty, reviewed and approved by the WesternU CVM Curriculum Committee, the Associate Dean for Academic Affairs, the Dean, and the SVP/Provost.

All courses are awarded letter grades, except when indicated otherwise.

### **CVM 5000 Veterinary Basic and Medical Sciences I (8.0 credits)**

The Veterinary Basic and Medical Sciences courses promote student-centered, self-directed learning of the fundamental concepts in the primary basic medical sciences (anatomy, behavior, epidemiology, genetics, immunology, microbiology, nutrition, parasitology, pathology, pharmacology, physiology, and toxicology). A Problem-Based Learning (PBL) environment is generated using cases that describe real patients with specific diseases providing the context for learning. Students are assigned to groups of 6 to 8 students with a faculty facilitator. Facilitators guide the students through the PBL process. Student will problem-solve by defining patient problems, evaluating facts/data, exploring ideas/hypotheses, and considering action plans/action items that will further define or resolve patient problems. PBL sessions are dynamic, interactive meetings that also enhance students' communication and collaboration skills. A body-systems approach is used to integrate the basic medical sciences. Correlative laboratories and learning activities are provided to enhance the learning experience.

### **CVM 5020 Veterinary Basic and Medical Sciences – II (8.0 credits)**

Taken concurrently with CVM 5000. See CVM 5000 for course description.

### **CVM 5030 Molecular and Cellular Biology I (1.0 credit)**

This course provides correlative activities to the Veterinary Basic and Medical Sciences cases, focusing on the central biological principles and mechanisms that underlie animal health and disease at the molecular and cellular levels.

### **CVM 5040 Veterinary Issues I (2.0 credits)**

This course introduces the student to significant issues facing the veterinary profession, which may include public policy, biomedical ethics, and legislation affecting animals or the veterinary profession, animal welfare, public health, and veterinary career opportunities. The format includes invited presentations, small group discussions and assigned readings and projects. This and subsequent courses include material on the California Veterinary Medical Practice Act.

### **CVM 5060 Veterinary Clinical Sciences and Skills I (2.0 credits)**

This course provides learning activities that lead to functional competence in basic veterinary clinical skills and common clinical procedures used in veterinary medicine. Various instructional arenas in small and large animals will be employed.

### **CVM 5100 Veterinary Basic and Medical Sciences - III (8.0 credits)**

Continuation of CVM 5000 and 5020. Prerequisites: CVM 5000, CVM 5020.

### **CVM 5120 Veterinary Basic and Medical Sciences - IV (8.0 credits)**

Taken concurrently with CVM 5100, focusing on other veterinary problems. Prerequisites: CVM 5000, CVM 5020.

**CVM 5130 Molecular and Cellular Biology II (1.0 credit)**

Continuation of CVM 5030. Prerequisite: CVM 5030.

**CVM 5140 Veterinary Issues II (2.0 credits)**

Continuation of CVM 5040. Prerequisite: CVM 5040.

**CVM 5160 Veterinary Clinical Sciences and Skills II (2.0 credits)**

Continuation of CVM 5060. Prerequisite: CVM 5060.

**CVM 6000 Veterinary Basic and Medical Sciences - V (8.0 credits)**

Continuation of CVM 5100 and 5120. Prerequisites: CVM 5100, CVM 5120.

**CVM 6020 Veterinary Basic and Medical Sciences - VI (8.0 credits)**

Taken concurrently with CVM 6000, focusing on other veterinary problems. Prerequisites: CVM 5100, CVM 5120.

**CVM 6030 Molecular and Cellular Biology III (1.0 credit)**

Continuation of CVM 5130. Prerequisite: CVM 5130.

**CVM 6040 Veterinary Issues III (2.0 credits)**

Continuation of CVM 5140. Prerequisite: CVM 5140.

**CVM 6060 Veterinary Clinical Sciences and Skills III (2.0 credits)**

Continuation of CVM 5160. Prerequisite: CVM 5160.

**CVM 6100 Veterinary Basic and Medical Sciences - VII (8.0 credits)**

Continuation of CVM 6000 and 6020. Prerequisites: CVM 6000, CVM 6020.

**CVM 6120 Veterinary Basic and Medical Sciences - VIII (8.0 credits)**

Taken concurrently with CVM 6100, focusing on other veterinary problems. Prerequisites: CVM 6000, CVM 6020.

**CVM 6130 Molecular and Cellular Biology IV (1.0 credit)**

Continuation of CVM 6030. Prerequisite: CVM 6030.

**CVM 6140 Veterinary Issues IV (2.0 credits)**

Continuation of CVM 6040. Prerequisite: CVM 6040.

**CVM 6160 Veterinary Clinical Sciences and Skills IV (2.0 credits)**

Continuation of DVM 6060. Prerequisite: CVM 6060.

**CVM 7000A Financial and Practice Management (0.5 credit)**

This course is an on-campus orientation to practice management, practice economics, and career and personal development. The course focuses on aspects of modern veterinary practice and life skills management, including but not limited to: preparation of contemporary medical records (emphasis placed on Problem- Oriented Veterinary Medical Records - POVMR), how to run a veterinary practice as a business, time management, team communications skills, contract law, compensation and benefits in employment contracts, personal budgets and tax issues, negotiation skills, and establishing fee schedules.

**CVM 7000B Financial and Practice Management (0.5 credit)**

Continuation of CVM 7000A.

**CVM 7010 Small Animal Practice I (2.0 credits)**

Supervised education in small animal (canine, feline) medicine. This will be carried out through instructor-led activities, self-directed learning, and/or in select high-quality and high-volume private practices. Students see a variety of scheduled and emergency appointments, while gaining experience in preventative patient care, as well as the diagnosis and treatment of disease. Active participation by students in the management of patients includes gaining experience in history taking, performing physical examination of patients, and engaging in problem-oriented decision-making discussions. Students will observe clinicians as role models and become familiar with how clinicians apportion their time spent with clients, staff, and other hospital matters.

**CVM 7011 Small Animal Practice II (2.0 credits)**

This course provides supervised education in small animal (canine, feline) medicine carried out through instructor-led activities, self-directed learning, and/or in select high-quality and high-volume private practices. Students see a variety of scheduled and emergency appointments, while gaining experience in preventative patient care, as well as the diagnosis and treatment of disease. Active participation by students in the management of patients includes gaining experience in history taking, performing physical examination of patients, and engaging in problem-oriented decision-making discussions. Students will observe clinicians as role models and become familiar with how clinicians apportion their time spent with clients, staff, and other hospital matters.

**CVM 7012 Small Animal Practice III (2.0 credits)**

This course provides supervised education in small animal (canine, feline) medicine carried out through instructor-led activities, self-directed learning, and/or in select high-quality and high-volume private practices. Students see a variety of scheduled and emergency appointments, while gaining experience in preventative patient care, as well as the diagnosis and treatment of disease. Active participation by students in the management of patients includes gaining experience in history taking, performing physical examination of patients, and engaging in problem-oriented decision-making discussions. Students will observe clinicians as role models and become familiar with how clinicians apportion their time spent with clients, staff, and other hospital matters.

**CVM 7013 Small Animal Practice IV (2.0 credits)**

This course provides supervised education in small animal (canine, feline) medicine carried out through instructor-led activities, self-directed learning, and/or in select high-quality and high-volume private practices. Students see a variety of scheduled and emergency appointments, while gaining experience in preventative patient care, as well as the diagnosis and treatment of disease. Active participation by students in the management of patients includes gaining experience in history taking, performing physical examination of patients, and engaging in problem-oriented decision-making discussions. Students will observe clinicians as role models and become familiar with how clinicians apportion their time spent with clients, staff, and other hospital matters.

**CVM 7020 Livestock Practice I - Dairy (2.0 credits)**

The goal of this course is to expose students to the practice of food animal medicine with specific focus on dairy production systems. Students may also be afforded the opportunity to be active participants in the diagnostic and therapeutic management of individual animal patients, including physical diagnosis, patient care, and therapeutic problem-oriented decision-making. Emphases will be on herd health preventive programs, population medicine, record analysis, facility evaluation, and animal welfare issues. While in this clinical setting, students are expected to continue building knowledge in the basic sciences through self-directed study, while developing an understanding of the clinical sciences through their experiences.

#### **CVM 7021 Livestock Practice II - Meat & Fiber (2.0 credits)**

The goal of this course is to educate students about production systems involved in the rearing of beef cattle, sheep, and swine, and the practice of food animal medicine and surgery. Major emphases will be on herd health preventive programs, population medicine, record analysis, facility evaluation, and animal welfare issues. The curriculum will also focus on active participation in individual animal medicine in the diagnostic and therapeutic management of patients including physical diagnosis, patient care and therapeutic problem-oriented decision-making opportunities. Core curricular competencies related to reproductive management and evaluation, surgical and obstetric techniques may be addressed. Students are expected to continue building basic science knowledge in a clinical setting and develop an understanding of clinical sciences through clinical experiences and self-directed study.

#### **CVM 7025 Population Health & Production (2.0 credits)**

This course will be administered by on-campus Western University faculty. On-campus activities will involve in depth discussions of population health and production topics. Concepts related to disease dynamics and transmission, biosecurity, disease monitoring and surveillance, disease eradication and/or control, and cost/benefit analysis of disease interventions will be discussed in the context of an outbreak investigation in both small and large group formats. This course will also focus on critical appraisal and use of population-based information for individual animals, including topics related to evaluation and application of diagnostic tests, record analysis as a diagnostic tool, and management related health issues in populations. Timely topics or current events impacting population health and production can be discussed throughout the course. As part of student assessment in the course, each student will prepare a 10-15-minute oral presentation critically appraising an observational study or clinical trial published in primary literature. This presentation will be delivered to one or more faculty, including at least one faculty member involved in the delivery of this course, as well as a group of peers concurrently taking the course.

#### **CVM 7030 Equine Practice I (2.0 credits)**

This third-year course provides supervised clinical education in hospital-based equine care. The students will have an opportunity to work along-side high quality, community-based equine clinicians. The students will be active participants in the diagnostic and therapeutic management of equine patients and continue to develop problem-oriented decision processes. The students will develop skills in the management of primary care patients, medical, surgical, and emergency issues, as well as gaining exposure to the economics of the equine practice.

#### **CVM 7031 Equine Practice II (2.0 credits)**

This third-year course provides supervised clinical education in ambulatory-based equine practice. The students will have the opportunity to work along-side high quality, community-based equine clinicians. Students are active participants in the diagnostic and therapeutic management of the patient and will

continue to develop problem-oriented decision-making skills directed toward the care of the patient. These students will assume progressive responsibility in the management of primary care patients, preventive care programs, and emergencies that occur in practice as well as gaining exposure to the economics of equine practice.

**CVM 7035 Surgery/Anesthesia (2.0 credits)**

This is a clinical experience supervised by WesternU faculty in the Upland Shelter or other facilities as needed. Students are responsible for anesthesia, surgical procedures (such as sterilization), peri-operative care, and client education for adopted and client-owned animals. Surgical and anesthetic experience will be gained through participation in ovariohysterectomies and/or castrations during the course. Additional surgical procedures will be performed if indicated.

**CVM 7040 Diagnostic Laboratory & Pathology (2.0 credits)**

This course emphasizes the efficient and effective use of laboratory services in veterinary medicine. This course includes aspects of diagnostic clinical pathology, anatomical pathology, parasitology, and microbiology (bacteriology and virology). Specimens from a variety of species are used as they are routinely processed in a veterinary diagnostic laboratory. Particular emphasis is placed on the practical applications of gross pathology and histopathology as an aid to assist general veterinary practitioners and animal owners in the identification of disease processes. Emphasis is placed on the proper collection and submission of clinical specimens from sick and deceased animals. The interpretation of laboratory test results are reviewed and discussed. In this course, students will acquire practice experience/skills in techniques used for an effective necropsy, proper examination of specific organs, and identification of lesions and postmortem changes. Students will become familiar with basic principles of tissue preservation and processing for histopathology and the recognition and interpretation of microscopic findings.

**CVM 7045 Laboratory Animal & Research (2.0 credits)**

This course introduces laboratory animal veterinary medical practice. Primary laboratory animal species are identified as rodents, ferrets, rabbits, and non-human primates. Students are expected to understand individual and population based medical aspects for these species. This includes basic husbandry, bi methodology (handling, restraint, injection sites, and diagnostic sample collection), assessment of animal well-being and major diseases (etiology, pathogenesis, diagnosis, treatment, health surveillance methods, prevention, and zoonotic risks). Animal facility management relating to animal care, biosecurity, and occupational health and safety will be addressed. Students will become familiar with local, state, and Federal regulations governing research animal care and use to understand the critical role the veterinarian plays in ensuring regulatory compliance.

**CVM 7050 Zoo Animal & Wildlife (2.0 credits)**

This course introduces zoo, exotic companion, and wildlife medicine and surgery. Students will acquire basic knowledge in a variety of clinical, surgical, and managerial skills. Emphasis will be placed on management (husbandry), transport, handling, restraint, capture, anesthesia, internal medicine, emergency and critical care, necropsy techniques and appropriate specimen collection in a variety of zoo animals. In addition to seeing clinical cases, sessions with the course director and/or a clinical veterinarian are set aside to discuss anatomy/physiology/husbandry of non-domestic animals, zoo ethics, and if time is available, the students will have an introduction to the management of zoos and the conservation efforts of zoos. Students are expected and highly encouraged to participate, actively, in the diagnostic and

therapeutic problem-oriented decision-making of each particular case. Issues pertaining to the conservation of wildlife may be discussed depending upon the students' interest and staff availability.

#### **CVM 7055 Veterinary Public Health (2.0 credits)**

This course will introduce the student to how veterinarians function as public health professionals. The course will build on concepts introduced in Veterinary Basic and Medical Sciences, but it will challenge students to delve more deeply into the arena of Veterinary Public Health. Students will develop an understanding of the public health system in the US. They will be introduced to major zoonoses that impact human health and common methods used to diagnose, prevent, and control these diseases. Other topics will include occupational health risks to people working with animals, the role of veterinarians in disaster and bioterrorism preparedness, and the concepts of emerging and re-emerging diseases. Visits to Veterinary Public Health facilities are included. Activities will consist of a mix of student-centered learning activities, group discussions, presentations, written assignments, and presentation by content experts.

#### **CVM 7060 Food & Feed Safety (2.0 credits)**

The primary aim of this course is to provide students with the basic knowledge regarding the role of veterinary medicine in the production of safe foods of animal origin (meat, dairy products and eggs) and safe feeds for companion animals, poultry, livestock, and other species. The continuum from pre-harvest through post-harvest food and feed safety will be covered with emphasis on the physical, chemical, and biological aspects of food safety. Principles of cleaning, disinfection, sterilization, and radiation as it applies to food production will also be discussed. Students should understand the concepts of developing a Hazard Analysis Critical Control Points (HACCP) program at both the pre-harvest and post-harvest stages.

#### **CVM 7065 Global Health (2.0 credits)**

The goal of this course is to educate veterinary students on foreign animal diseases and global health issues so that they understand their roles and responsibilities as veterinarians within and outside the USA, understand the global impact of foreign animal and zoonotic diseases and contribute to their control and prevention. This course will include three components: Foreign Animal Diseases, Global Health, and USDA Accreditation. Students will gain knowledge of foreign animal diseases that are reportable in the USA, including Office International des Epizooties (OIE) reportable diseases as well as the Centers for Disease Control and Prevention's Category A, B, C Bioterrorism Agents/Diseases and other important high consequence livestock pathogens and toxins. They will be introduced to major Global Health concepts. The role of USDA in international activities, other national and international animal, and public health organizations, including United Nations (UN) organizations such as the Food and Agriculture Organization of the UN (FAO) and the World Health Organization (WHO), as well as the OIE, will be discussed. Students will meet with representatives from both the area office of USDA-APHIS and the California Department of Food and Agriculture Animal Health and Food Safety Service to become familiar with their role in disease control, eradication, and prevention and to review their professional, legal, and ethical responsibilities as accredited veterinarians. Students will complete the required USDA – Initial Accreditation Training.

#### **CVM 7090 Third Year Student Presentations (1.0 credit)**

The goal of this course is to give the student the responsibility and opportunity to select, study, and present a topic of interest or original research. The topics must be explored extensively in regard to both the clinical and pre-clinical sciences and include pathophysiologic, pharmacologic, cellular, and genetic basis, etc. Students are expected to conduct an extensive and exhaustive literature review, critically appraise relevant publications, and utilize the dictums of evidence-based medicine in preparing the presentation. Presentations will be evaluated by the faculty using formal criteria.

**CVM 7510A Core Small Animal Internal Medicine (4.0 credits, Graded H/PA/U)**

This core clinical rotation provides fourth-year veterinary students with clinical experiences focused on small animal internal medicine in selected, high-quality, specialty or referral internal medicine practices. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the Course leader and documented in the course syllabus. This includes participation in the practice of small animal veterinary internal medicine, including the diagnosis, management, and treatment of diseases, primarily in small animal patients (feline, canine). Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is not open to students completing CVM 7510B or CVM 7515.

**CVM 7510B Core Equine Internal Medicine (4.0 credits, Graded H/PA/U)**

This core clinical rotation provides fourth-year veterinary students with clinical experiences focused on equine internal medicine in selected, high-quality, specialty or referral practices. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the Course leader and documented in the course syllabus. This includes participation in the practice of veterinary equine internal medicine, including the diagnosis, management, and treatment of diseases, primarily in equine patients. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is not open to students completing CVM 7510A or CVM 7515.

**CVM 7515 Core Food Animal Production Medicine (4.0 credits, Graded H/PA/U)**

This core clinical rotation provides fourth-year veterinary students with experiences focused on food animal production medicine. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in Food Supply Veterinary Medicine (FSVM) including investigation, analysis, and solving of herd level production problems and the diagnosis and management of food animal cases. Although all food and fiber species are covered in this course, the emphasis will be on dairy production medicine. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is not open to students completing CVM 7510A or CVM 7510B.

**CVM 7520A Core Small Animal Surgery (4.0 credits, Graded H/PA/U)**

This core clinical rotation provides fourth-year veterinary students with clinical experiences focused on small animal surgery in selected, high-quality, specialty or referral practices. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the practice of veterinary surgery, including diagnosis, management and treatment of surgical and musculoskeletal diseases. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is not open for credit to students completing CVM 7520B.

**CVM 7520B Core Equine Surgery (4.0 credits, Graded H/PA/U)**

This core clinical rotation provides fourth-year veterinary students with clinical experiences focused on equine surgery in selected, high-quality, specialty or referral practices. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the practice of veterinary surgery, including diagnosis, management and treatment of surgical and musculoskeletal diseases. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is not open for credit to students completing CVM 7520A.

**CVM 7525 Core Veterinary Career Development (1.0 credit, Graded CR/NCR)**

This required rotation provides fourth-year veterinary students access to a broad coverage of topics related to the practice of veterinary medicine. This includes the knowledge and skills necessary for successful entry and engagement in the veterinary profession including topics: career development and advancement, employment opportunities and selection, interview skills, negotiation skills, contract interpretation, compensation, personal and professional financial management and planning, personal and professional insurance coverage, and diseases and conditions of multiple veterinary species encountered in veterinary medicine with a focus on those that are common, zoonotic, and of economic importance. The sections focused on common diseases, and conditions of veterinary species seminar are designed to facilitate student development in clinical reasoning and critical thinking through the use of cases, discussions, and assignments. Content and activities will be directly related to North American Veterinary Licensing Examination published species diagnoses or competencies in the broad areas of small animal medicine and surgery, equine medicine and surgery, and livestock and poultry medicine. Students are encouraged to identify personal gaps in knowledge and identify credible resources for use in self-study throughout the rotation and for their career preparation. This rotation cannot be repeated.

Year 4 Selective rotations (CVM 7530 – CVM 7574) delivered online may be graded as CR/NCR. Please contact the Director of Year 4 Curriculum for more information.

**CVM 7530 Complementary/Alternative/Integrative Medicine Practice (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the application of alternative, complementary, and homeopathic medicine in managing animal health, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the practice of alternative, complementary, and homeopathic medicine, gaining experience in both the clinical application and scientific basis for alternative approaches to medical and surgical management of veterinary patients. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable for a maximum of eight (8) credits.

**CVM 7531 Anatomic Pathology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on diagnostic pathology of multiple species. All activities are overseen by an individual that meets the



college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in activities such as performing necropsies; reviewing pathology submission forms; reviewing and writing pathology reports (description and diagnosis); reviewing ancillary tests; and reviewing, evaluating and, and interpret histopathology specimens. The rotation may also include experiences in clinical pathology. Students are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable for a maximum of eight (8) credits.

**CVM 7532 Clinical Pathology and Ancillary Diagnostics (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with experiences focused on clinical pathology and ancillary diagnostic methods available to clinicians and pathologists. All activities are overseen by an individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in activities such as generating and interpreting clinical pathology results (hematology, cytology, clinical chemistry and urinalysis); microbiology test results (bacteriology, virology with immunology, and mycology); toxicology testing results; and parasitology testing results. Additionally, students participate in reviewing clinical pathology and ancillary diagnostics submission forms, specimen handling and processing; data collection and evaluation; learning about and understanding available tests and methods for isolation/identification of agents (antibodies and histopathological changes). Students are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7533 Anesthesia (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the use of anesthetics in small companion animals, horses, and/or food animals. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in activities that help develop an understanding of selection, dosage, and administration of general and local anesthetic drugs, as well as other supportive therapy employed as part of a balanced anesthetic protocol. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7534 Aquatic Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the health and management of freshwater and/or marine species, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by an individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in activities such as water quality management, individual animal care, and diagnostic procedures. Students may be given responsibility for the management of individual and/or population cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7535 Avian Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on avian species including pet birds and non-agricultural poultry, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the diagnosis and treatment of common and zoonotic diseases and the nutritional management of pet birds. Students may be given responsibility for the management of individual or population cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7536 Beef Cattle Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on cow/calf, feedlot, and/or stocker health management, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation diagnosis and treatment of common diseases of beef cattle and the epidemiology, diagnosis, treatment, prevention, and control of those diseases at the individual and/or populations level. Students will also gain an understanding of cattle management practices related to housing, feeding, marketing, and culling and the structure and organization of the beef industry. Students may be given responsibility for the management of individual and/or population cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7537 Behavior (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with experiences focused on basic principles of animal behavior (ethology, psychology and neuroscience) and their application in clinical, shelter, ambulatory veterinary practices, and other environments. All activities are overseen by an individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in gathering behavioral histories and identifying, assessing, and treating common behavioral problems. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7538 Camelid Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on diagnosis, treatment, prevention, and control common diseases and conditions in camelids. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in health management and fiber production at both the individual and herd level. Students may be given responsibility for the management of individual and/or population cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7539 Canine Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the diagnosis and treatment of common diseases and conditions seen in contemporary canine veterinary medicine. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in activities such as the management of individual cases, diagnostic imaging (e.g., radiology, ultrasonography), endoscopy, clinical pathology, fluid therapy, electrocardiology, dentistry, and surgery. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7540 Cardiology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on clinical signs, historical findings, breed predilections, methods of diagnosis, and medical and surgical interventions for the most commonly seen cardio respiratory conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation activities such as cardiovascular examination, electrocardiography, diagnostic imaging (e.g., radiography, echocardiography, and electrocardiology). Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7541 Dairy Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on dairy health management, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in techniques involved with, the epidemiology, diagnosis, treatment, prevention and control of diseases/disorders at the individual animal and populations level. Students will also gain and understanding of the structure and organization of the dairy industry, common dairy management practices, predominant housing systems, accepted feed delivery systems, marketing channels, and culling practices. Students may be given responsibility for the management cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7542 Dentistry (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on diagnosis, management, medical treatment, and surgical techniques commonly utilized in veterinary dentistry. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in exchange of theoretical knowledge with the specialist via consultations and conversations, diagnosing congenital oral problems, taking and interpreting dental radiographs, working up oral cases, and collaborating with the dentist in client education regarding oral

preventive medicine of common oral and dental diseases of domestic animals. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7543 Dermatology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on dermatology. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the diagnosis, treatment, and prevention of a range of dermatologic diseases from a variety of pathogenic and etiologic categories. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7544 Emergency and Critical Care Rotation (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on emergency and critical care, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the diagnosis, management, therapy, prevention and control of animal diseases requiring emergency or critical care management in the emergency and critical care setting. Students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7545 Epidemiology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with experiences focused on the application of epidemiologic principles in the practice of veterinary medicine and/or public health. All activities are overseen by and individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in planning strategies for disease prevention, disease monitoring and surveillance, analysis of population data, outbreak investigation, observational research or other aspects of clinical epidemiology. Students are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7546 Equine Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the diagnosis, management, and treatment of common diseases and conditions seen in contemporary equine medicine. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in preventive and general medicine/surgery procedures including radiology, ultrasonography, endoscopy, lameness evaluation, dentistry and reproductive services. Students may experience the practice of equine medicine and surgery in both

ambulatory and in-house settings. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7547 Exotics Animal Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the diagnosis, treatment, and prevention of disease in exotic pets (avian, amphibians, reptiles, rodents, lagomorphs, other small mammals, and pet fish). All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in preventive and general medicine/surgery procedures of exotic animal medicine and surgery. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7548 Feline Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the most common feline medical and surgical cases and common associated clinical procedures. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the ethical, legal and financial aspects of a feline practice. Students may engage in a variety of diagnostic techniques and modalities including radiology, ultrasonography, endoscopy, clinical pathology, electrocardiology, fluid therapy, dentistry, and surgery. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7549 Food Animal Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the practice of contemporary food animal production medicine, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the delivery of health management programs, investigation of health problems, diagnosis and medical or surgical treatment of ill or injured animals and the review and/or implementation of approaches to enhance productivity in farm animals such as dairy cattle, sheep, goats and swine. Additionally, students may be given responsibility for the management of individual and/or population cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7550 General Practice (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the practice of general veterinary medicine, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in

course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the diagnosis, treatment and prevention of disease in multi-species general practice. Students may engage in a variety of diagnostic techniques and modalities including radiology, ultrasonography, endoscopy, clinical pathology, electrocardiology, fluid therapy, dentistry, and surgery. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7551 Internal Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on internal medicine, including the diagnosis and treatment. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in patient evaluation, diagnosis, and treatment of common diseases and condition. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7552 Global Health (2.0 or 4.0 credits, Graded H/PA/U)**

This selective rotation provides fourth-year veterinary students with experiences focused on new cultures and socio-cultural habits, the roles of animals in the different cultures, and health issues of global concern. All activities are overseen by an individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes introduction to the trans-boundary diseases that are prevalent in the country they are visiting. Disease control programs in developed and developing countries will be compared as well as the role of internal health organizations in disease, control and prevention at the local and global levels. Disease transmission in poor rural settings and the challenges that poverty, lack of education, and socio-cultural and religious beliefs pose to disease control will also be explored. This rotation will take students out of their comfort zones, test their level of tolerance, their level of responsibility in the world, their levels of sensitivity and give them the opportunity to work with people from different social and cultural backgrounds. Additionally, students are encouraged to participate in the process of evidence-based decision-making process. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7553 Laboratory Animal Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on laboratory animal medicine including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in restrain, physical examinations, administer medications, collect samples, and anesthetize common laboratory animals. The student will become familiar with diseases of laboratory animals and the correlation of clinical findings with gross and microscopic changes along with normal anatomy. The student will learn about regulations affecting the welfare of laboratory animals and the roles and responsibilities of the laboratory animal veterinarian in this area. This will include understanding the role of the Institutional Animal Care and Use Committee (IACUC) in monitoring the program of animal care in the research facility and in evaluating research protocols. The student may

participate in daily rounds, necropsies, surgical and therapeutic procedures. The student may be asked to present a seminar(s) on a selected topic. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

#### **CVM 7554 Neurology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on examination, diagnosis, and management of disorders of the nervous system. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in a variety of diagnostic techniques and modalities including radiology, ultrasonography, computed tomography, magnetic resonance imaging, and surgery. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

#### **CVM 7555 Nutrition (2.0 or 4.0 credits, Graded H/PA/U)**

This selective rotation provides fourth-year veterinary students with experiences focused on the application of nutrition to maintain and improve animal health. All activities are overseen by an individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes developing an understanding of nutritional requirements of domestic animals and methods used to evaluate the rations/diets delivered to these animals. Student will gain an understanding of deficiencies or excesses in diets and will gain experience in adjusting the nutritional plan to correct for those imbalances. Student will acquire the knowledge necessary to make pertinent and valid recommendations concerning the nutritional plan to be developed for and utilized in the face of disease or for normal animals as they progress through the differing stages of their life, production, and reproduction cycles. The student will gain knowledge of the characteristics of common feedstuffs used in the formulation of animal diets. Diagnosis, treatment, and prevention of common nutritional-based diseases in major veterinary species may be covered. Students may gain experience in HACCP and other regulatory procedures used to ensure safe production of animal feedstuffs. Additionally, students may be given responsibility for the management of cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

#### **CVM 7556 Oncology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the diagnosis and treatment of neoplasia in domestic animals. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in management strategies neoplastic disease, diagnostic techniques, treatment options, ethical considerations and client communication skills. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

#### **CVM 7557 Ophthalmology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on diagnostic ophthalmology, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in ocular examination, ophthalmic diagnostic tests, use of specialized equipment, and apply basic technical skills necessary for ophthalmic treatments. Student will be exposed to various ophthalmic surgeries, including both intra-ocular and extra-ocular procedures. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7558 Poultry Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on health care and management of poultry species, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in poultry production medicine and the management of individual and population cases and incorporate preventive medicine knowledge with economic strategies as it impacts animal welfare, farm productivity, environmental health, disease control and biosecurity, and food safety. Additionally, students may be given responsibility for the management of individual cases and/or flock and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7559 Public Health (2.0 or 4.0 credits, Graded H/PA/U)**

This selective rotation provides fourth-year veterinary students with experiences focused on in-depth exposure to those aspects of veterinary science that have a direct impact on the physical, social, and mental well-being of humans. All activities are overseen by an individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes activities that allow them to apply their knowledge of the core domains of veterinary public health. These venues include private sector, governmental agencies or academic institutions, which have a strong veterinary public health component, regardless of whether that institution's primary focus is human or animal health. Additionally, students are encouraged to participate in the process of evidence-based decision-making process. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7560 Public Policy (2.0 or 4.0 credits, Graded H/PA/U)**

This selective rotation provides fourth-year veterinary students with experiences focused on public policy related to pet and industry animals. All activities are overseen by an individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in activities at faculty-approved governmental affairs programs, industry trade associations, professional groups or associations, non-profit organizations, governmental bodies or agencies, or businesses/corporations. Students will be introduced to, and participate in, the public policy process as it affects the veterinary profession and/or the role and welfare of animals in society. This will include the identification of public policy problems,



the setting of policy agendas, analysis of the public policy process and cycle, and issues related to the delivery, implementation, and evaluation of public policies. Additionally, students are encouraged to participate in the process of evidence-based decision-making. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7561 Radiation Oncology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the management and treatment of neoplasia with external beam radiation therapy, in vivo radioisotope therapy, and/or isotope seed implants. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in a variety of diagnostic and treatment techniques and modalities including radiology, ultrasonography, computed tomography, magnetic resonance imaging, surgery, external beam radiation therapy, in vivo radioisotope therapy, and/or isotope seed implants. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7562 Diagnostic Imaging (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on diagnostic imaging, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in systematic evaluation of the appendicular skeleton, abdomen, thorax, spine and skull, and provide differential considerations of findings from multiple diagnostic imaging modalities, including radiographic, computed tomography, magnetic resonance imaging, ultrasonographic, echocardiographic, and nuclear medicine imaging techniques. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7563 Regulatory Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective rotation provides fourth-year veterinary students with experiences focused on role of veterinarians in regulatory practice. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in implementation, assessment, and analysis of the results of mandatory animal health protocols. Protocols may include state, federal or international disease surveillance, monitoring, and control measures. Students may also experience activities related to compliance with import and export regulations, enforcement of quarantine orders, and investigation of reportable disease incidence or outbreaks. Additionally, students may be given responsibility for the management of individual and/or population cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7564 Research (2.0 or 4.0 credits, Graded H/PA/U)**

This selective rotation provides fourth-year veterinary students with experiences focused on research. All activities are overseen by an individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the principles of sound experimental design and good laboratory practices. Student will develop a specific hypothesis and design a protocol to test the hypothesis. The student will maintain a laboratory notebook, documenting the procedures, and assays performed on a daily basis, as well as, define and explain the scientific questions that each assay is intended to address. Students should gain and underlying mechanisms by which the assays operate. Student may participate in laboratory meetings, seminars, and/or journal clubs. At the conclusion of the rotation, the student will prepare a one-page summary of their research project, which will be written in abstract form that contains both a title and an author(s) section, with the body of the abstract addressing the background, objectives, methods, results, and conclusions of the project. Additionally, a four to five -page technical summary of the research project will be prepared. This document should be written in manuscript format, including an abstract (same as above), introduction, methods, results and conclusions/discussion sections. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7565 Rural Practice (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on practice of veterinary medicine in the unique culture of rural America, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation, often times in a mixed animal practice setting, where the veterinarians serve a vital role in sustaining animal health and economic viability of the local community. Students are expected to participate in after hours and emergency calls with their preceptor. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7566 Shelter Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on medical assessment of, and providing veterinary medical care to, shelter housed animals, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in infectious disease surveillance, prevention and control of infectious diseases, temperament testing and participation in discussions, evaluations and demonstrations of behavioral assessments of shelter animals are included. Students will examine, develop diagnostic and treatment plans for shelter animals utilizing triage and consider financial limitations associated with the facility. Students will evaluate small animals pre-operatively, and will participate in surgical sterilization, and monitor post-operative recovery. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7567 Sports Performance/Rehabilitation Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the field of sports medicine, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in an interdisciplinary program incorporating specialists in lameness, orthopedics, cardiopulmonary disease, neurology, integrative therapies and endocrine diseases with an advance array of imaging equipment. Students will be exposed to the basic knowledge content of sports medicine as it relates to primary care medicine, understanding the role of exercise physiology, injury prevention, injury management, and rehabilitation of common exercise and sports related acute and chronic injuries. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7568 Small Ruminant Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the diagnosis, treatment, prevention and control of common diseases and conditions in small ruminants. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in health management and meat and fiber production topics at both the individual animal and herd level. Students will develop an understanding of the economics of modern small ruminant production medicine and their influence on marketing strategies and health management decisions. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7569 Surgery (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the diagnosis and treatment of common surgical diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in applying surgical theory and continue to develop surgical skills, techniques, and principles. Students will participate in complex surgical cases. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7570 Swine Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the diagnosis and treatment of common diseases and conditions seen in contemporary swine production medicine. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes understanding strategies for production record analysis and routine herd health visits. Students will also become familiar with the Pork Quality Assurance (PQA) program and the veterinarian's role in ensuring food quality and safety and promoting swine health and welfare. Additionally, students may be given responsibility for the management of individual cases and

are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7571 Theriogenology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the physiology and pathology of male and female reproductive systems, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in the evaluation of clinical practice, genital diseases, and reproductive diagnostic techniques used in domestic animals. Students may participate in breeding soundness evaluation of male and female patients, semen collection, evaluation, preservation, and artificial insemination. Embryo collection, evaluation, micromanipulation, preservation, and transfer may also be available. Students will understand fertility on an individual animal and herd and basis, measuring fertility, monitoring fertility, and fertility control schemes. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7572 Toxicology (2.0 or 4.0 credits, Graded H/PA/U)**

This selective rotation provides fourth-year veterinary students with experiences focused on the diagnosis, treatment, and/or management of poisoned patients. All activities are overseen by an individual that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes activities to enhance knowledge and skill in the clinical approach to patients who have been exposed to toxins, acutely, and chronically, from a variety of sources including iatrogenic, environmental, and nutritional. In small animal cases, students will learn to approach the diagnosis and treatment of poisoned patients in a systematic and holistic manner. In large animal cases, students will learn to consider not only the health of the patient, but also the implication of secondary exposures to other species, including humans, when poisoned animals and their food products enter either animal or human food products. Students may have the opportunities to learn about regulatory toxicology issues as they relate to environmental health, biosecurity, bioterrorism and food and drug safety. Additionally, students may be given responsibility for the management of individual and/or population cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7573 Wildlife and Conservation Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on the health, management, and conservation of wildlife species, including diagnosis and treatment of common diseases and conditions, as well as the pathology associated with them. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation in capture procedures, necropsies, surgical, diagnostic, and therapeutic procedures. Additionally, students may be given responsibility for the management of individual and/or population cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7574 Zoological Medicine (2.0 or 4.0 credits, Graded H/PA/U)**

This selective clinical rotation provides fourth-year veterinary students with clinical experiences focused on zoo animal medicine, including the diagnosis and treatment of common diseases and conditions. All activities are overseen by a veterinary practitioner that meets the college's established guideline and is approved by the college's Committee on Clinical Instruction. Students will engage in course activities to meet the desired course outcomes designated by the course leader and documented in the course syllabus. This includes participation to clinical techniques, including restraint, physical examinations, administering medications, collecting samples, anesthesia, and diagnostic imaging of a variety of zoo animals. Students will become familiar with preventive medicine, quarantine procedures, nutrition and husbandry of zoo animals. Students will learn about regulations affecting the care and welfare of zoo animals as well as the roles and responsibilities of the zoo veterinarian in this area. Student may participate in daily rounds, necropsies, surgical, and therapeutic procedures. The student may be asked to present a seminar on a selected topic. Additionally, students may be given responsibility for the management of individual cases and are encouraged to participate in the process of evidence-based decision-making and clinical reasoning. This rotation is repeatable to a maximum of eight (8) credits.

**CVM 7575 Seminars in Clinical Veterinary Medicine (2.0 or 4.0 credits, Graded CR/NCR)**

This selective virtual clinical rotation provides fourth-year veterinary students with a broad overview of common clinical diseases and conditions of multiple species encountered in veterinary medicine. This seminar series is designed to facilitate student development in clinical reasoning and critical thinking through the use of cases, discussions, and assignments. Content and activities will be directly related to North American Veterinary Licensing Examination published species diagnoses or competencies in the broad areas of small animal medicine and surgery, equine medicine and surgery, and livestock and poultry medicine. Students are encouraged to identify personal gaps in knowledge and identify credible resources for use in self-study throughout the rotation and for their preparation for licensing examinations. This rotation is not repeatable.

**CVM 8090 Independent Study (1.0-8.0 credits, CR/NCR)**

Supervised student-centered learning experience in a clinical, administrative or research setting. Repeatable to a maximum of eight credits. Year 4 students are limited to eight combined credits for concurrent enrollment in CVM 8090 and CVM 8095. Prior permission of the Dean's Office is required in order to repeat this course. Credit awarded for this course does not count toward the total number of credit hours required for the DVM degree.

**CVM 8095 Research Thesis (2.0-8.0 credits, CR/NCR)**

The goal of this course is to improve the scholarly writing and scientific presentation skills of students. These skills are especially relevant to students considering further clinical (internship or residency) or research (MS or PhD) training after graduation. This course is applicable to students who have previously completed a research rotation (CVM 7564), independent study (8090) or been engaged in scholarly activities during their clinical rotations or during summer programs. The course is designed to allow final preparation of the scholarly writing (article submitted for publication or thesis), preparation of an abstract, and public defense. Students may elect to enroll in this course during Years 2, 3 or 4, and must complete the course prior to graduation. Repeatable to a maximum of eight credits. Year 4 students are limited to eight combined credits for concurrent enrollment in CVM 8090 and/or CVM 8095. Prior permission of the Dean's Office is required to repeat this course. Credit awarded for this course does not count toward the total number of credit hours required for the DVM degree.

**CVM HART The Healer's Art (1.0 credit hour, CR/NCR)**

This course encourages students to identify, strengthen, and cultivate the human dimensions of veterinary medicine. Students will experience the effects of listening generously and compassionately. This course's innovative educational strategy is based on discovery model drawing on tested approaches and theories to deal with the hidden crisis in medicine. The curriculum is process based enabling a formation of a community of inquiry between students and faculty. Students, veterinarians, and facilitators are brought together in a discovery model that encourages honest and mutually respectful sharing of experience, beliefs, and personal truths. Meaning is the antecedent of commitment. The pressures of contemporary practice may require us to broaden our customary educational objectives to develop student capacity to find meaning lifelong in the same systematic way skills are fostered to maintain current knowledge base and technical expertise.

This elective course consists of five 3-hour sessions. Emphasis is on experiential learning and building small group communities. Each session will begin with a brief talk given by a veterinarian and then small group sessions explore the topics. Priority given to CVM first- and second-year students. Available to third- and fourth-year veterinary students on space available basis.

**IPE 5000 Patient Centered Cases I – An Inter-professional Approach (1.0 credit, CR/NCR)**

This course is a required university seminar for all first-year health professional students. This course prepares students to practice health care services through a team approach. Working in small inter-professional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social, and psychological issues. This course is a graduate requirement for all health professional programs.

**IPE 5100 Patient Centered Cases II - An Inter-professional Approach (1.0 credit, CR/NCR)**

This course is a required university seminar for all first-year health professional students. This course prepares students to practice health care services through a team approach. Working in small inter-professional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social, and psychological issues. This course is a graduate requirement for all health professional programs.

**IPE 6000 Team Training in Health Care I (1.0 credit, CR/NCR))**

IPE 6000 will continue to build upon the knowledge from the IPE 5000 series but will expand upon that knowledge and require the student to learn and apply advanced tools and strategies that are crucial to develop a collaborative health care team. The majority of the course is independent study with students engaging in a large-scale tabletop activity where they apply team tools necessary to solve a health care dilemma.

**IPE 6100 Team Training in Health Care (1.0 credit, CR/NCR)**

Continuation of IPE 6000.

## Academic Calendar

Fall 2021	
June 7, 2021	Fall Classes Begin (Year 4, Cohorts 1 & 2)
July 5, 2021	Independence Day Observed – No Classes*
July 5, 2021	Fall Classes Begin (Year 4, Cohorts 3 & 4)
August 2-6, 2021	Orientation/Welcome Week (Year 1)
August 6, 2021	Year 3 Orientation
August 7, 2021	Convocation/White Coat Ceremonies (Year 1)
August 9, 2021	Fall Classes Begin (Years 1-3)
September 6, 2021	Labor Day – No Classes*
November 11, 2021	Veterans Day – No Classes*
November 22-25, 2021	No Classes (Year 3)
November 25-26, 2021	No Classes (Years 1-2)
November 29, 2021	Fall Classes Resume (Years 1-3)
December 5, 2021	Fall Classes End (Year 4, Cohorts 1 & 3)
December 17, 2021	Fall Classes End (Years 1-3)
December 20, 2021	Winter Recess Begins (Years 1-3)
January 2, 2022	Fall Classes End (Year 4, Cohorts 2 & 4)
Spring 2022	
December 6, 2021	Spring Classes Begin (Year 4, Cohorts 1 & 3)
January 3, 2022	Spring Classes Begin (Years 1-3, Year 4 Cohorts 2 & 4)
January 17, 2022	Martin Luther King Day – No Classes*
February 21, 2022	President’s Day – No Classes*
March 14, 2022	Spring Break Begins (Years 1-3)
March 21, 2022	Spring Classes Resume (Years 1-2)
May 13, 2021	Spring Classes End (Year 3)
May 18, 2022	Spring Classes End (Year 4)
May 16, 2022	Spring Classes End (Years 1-2)
May 20, 2022	Commencement

\* Years 3 and 4 students observe their preceptor’s hours, which may include working on federal holidays.

## **Veterinarian's Oath**

Being admitted to the profession of veterinary medicine, I solemnly swear to use my scientific knowledge and skills for the benefit of society through the protection of animal health and welfare, the prevention and relief of animal suffering, the conservation of animal resources, the promotion of public health, and the advancement of medical knowledge.

I will practice my profession conscientiously, with dignity, and in keeping with the principles of veterinary medical ethics.

I accept as a lifelong obligation the continual improvement of my professional knowledge and competence.

*Approved by the House of Delegates, 1954; Revision approved by the House of Delegates, 1969; Revision approved by the Executive Board of the American Veterinary Medical Association in 1999, 2010.*