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I. Introduction

Our Mission
The University of Florida’s College of Veterinary Medicine’s faculty has developed a strong program of study in order to fully prepare the next generation of veterinarians for careers. The objectives of the curriculum include the following goals:

- To impact key concepts and skills as well as critical and analytical thinking skills essential for lifelong learning, success, and professional growth;
- To provide students with knowledge and experiences that will foster consideration of the full spectrum of career opportunities and prepare interested students for post-graduate education;
- To provide classroom and clinic environments where there is an emphasis on high morals and ethics, professional values, leadership qualities, and sensitivity to societal needs; and
- To emphasize the importance of veterinarians in the advancement of animal and human health and the preservation of humane animal care.

Calendar

<table>
<thead>
<tr>
<th>Date - 2012</th>
<th>Activity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 13-15</td>
<td>Freshmen Orientation</td>
<td>Class of 2015, transfers</td>
</tr>
<tr>
<td>Aug. 16-17</td>
<td>Freshmen Leadership Experience</td>
<td>Class of 2016, class of 2015 facilitators</td>
</tr>
<tr>
<td>Aug. 20</td>
<td>Fall classes begin</td>
<td>Classes of 2016, 2015, 2013</td>
</tr>
<tr>
<td>Sept. 3</td>
<td>Labor Day</td>
<td>No class</td>
</tr>
<tr>
<td>Nov. 9</td>
<td>Homecoming</td>
<td>No class for classes of 2016, 2015, 2013</td>
</tr>
<tr>
<td>Nov. 12</td>
<td>Veterans Day</td>
<td>No class</td>
</tr>
<tr>
<td>Nov. 22-23</td>
<td>Thanksgiving holidays</td>
<td>No class</td>
</tr>
<tr>
<td>Dec. 24-28</td>
<td>Shadowing opportunity in clinics</td>
<td>Class of 2015</td>
</tr>
<tr>
<td>Dec. 21</td>
<td>End of fall semester</td>
<td>Classes of 2016, 2015, 2013</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date - 2013</th>
<th>Activity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 7</td>
<td>Classes begin</td>
<td>Classes of 2016, 2015, 2013</td>
</tr>
<tr>
<td>Jan. 21</td>
<td>Martin Luther King, Jr. Day</td>
<td>No class</td>
</tr>
<tr>
<td>March 18-22</td>
<td>Spring break</td>
<td>Classes of 2016, 2015</td>
</tr>
<tr>
<td>March 22-23</td>
<td>National SAVMA Symposium</td>
<td></td>
</tr>
<tr>
<td>April 12</td>
<td>Animal Health Day</td>
<td></td>
</tr>
<tr>
<td>April 13</td>
<td>Open House</td>
<td></td>
</tr>
<tr>
<td>May 10</td>
<td>Professional Coating Ceremony</td>
<td>Class of 2015</td>
</tr>
<tr>
<td>May 17</td>
<td>Enter Clinics</td>
<td>Class of 2015</td>
</tr>
<tr>
<td>May 24</td>
<td>Senior breakfast, senior banquet</td>
<td>Class of 2013</td>
</tr>
<tr>
<td>May 25</td>
<td>Commencement</td>
<td>Class of 2013</td>
</tr>
</tbody>
</table>
II. University of Florida Resources

Alumni Affairs
http://vetmed.ufl.edu/about-the-college/administration/donors-and-friends/

Disability Resource Center
http://www.dso.ufl.edu/drc/

Gator 1 ID Card
http://wwwbsd.ufl.edu/G1C/idcard/distance.asp

ISIS
http://www.isis.ufl.edu/

International Center
http://www.ufic.ufl.edu/

Regional Transit System
http://go-rts.com/index.php

Start a Student Organization
https://www.studentinvolvement.ufl.edu/StudentOrganizations/RegistrationInformation

Student Housing
http://www.housing.ufl.edu/villages/

Veteran Affairs
http://www.registrar.ufl.edu/hubveterans.html

Wellness Center
http://www.counseling.ufl.edu/cwc/
III. Curriculum

Introduction
There are three phases of study at the College of Veterinary Medicine:

- **Phase I**
  - Semester 1-2 (first year)
  - Study disease processes and therapy
  - Organized on an organ system basis
- **Phase II**
  - Semester 3-4 (second year)
  - Clinical applications
  - Organized on an organ system basis
- **Phase III**
  - Semester 5-9 (third and fourth year)
    - Students have two semesters to perform additional didactic coursework in an area of focused concentration
    - Students enter the Veterinary Medical Center and embark upon clinical clerkship rotations and advanced classroom education.
    - Junior clerkships, essential and elective didactic courses, senior clerkships, and externships

### Phase I Courses
*All required courses*

<table>
<thead>
<tr>
<th>Fall Semester - Freshmen Year (18 credits)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VEM 5001</strong> Career Opportunities in Veterinary Medicine</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5008 Veterinary Professional Development</td>
<td>1</td>
</tr>
<tr>
<td><strong>VEM 5101</strong> Veterinary Gross Anatomy†</td>
<td>4</td>
</tr>
<tr>
<td><strong>VEM 5110</strong> Animal Systems I</td>
<td>7</td>
</tr>
<tr>
<td>VEM 5113 Veterinary Embryology</td>
<td>1</td>
</tr>
<tr>
<td><strong>VEM 5115</strong> Veterinary Histology</td>
<td>1</td>
</tr>
<tr>
<td><strong>VEM 5131</strong> Veterinary Molecular Biology</td>
<td>2</td>
</tr>
<tr>
<td><strong>VEM 5150</strong> Veterinary Parasitology</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester - Freshmen Year (18 credits)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VEM 5041 Contemporary Topics in Animal Welfare and Ethics</td>
<td>1</td>
</tr>
<tr>
<td><strong>VEM 5111</strong> Animal Systems II</td>
<td>7</td>
</tr>
<tr>
<td><strong>VEM 5112</strong> Animal Systems III†</td>
<td>7</td>
</tr>
<tr>
<td>VEM 5181 Radiological Techniques</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5191 Introduction to Veterinary Animal Behavior</td>
<td>1</td>
</tr>
<tr>
<td><strong>VEM 5220</strong> Basic Veterinary Nutrition</td>
<td>1</td>
</tr>
</tbody>
</table>

†The college takes seriously its ethical responsibility to ensure anatomy animals are appropriately obtained. A will body program has been developed to support students who feel college-selected animals do not meet their personal morals. Although the college has been able to meet personal ethical needs of previous students through the will body program, the college cannot guarantee animal access. Students who require alternatively sourced ethical cadavers are required to sign paperwork stating that if the college is unable to locate and/or provide an acceptable cadaver that they will delay their DVM academic studies 1 or more years until such time as a suitable cadaver is obtained.
Phase II Courses
*all required courses

### Fall Semester - Sophomore Year (20 credits)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VEM 5141 Veterinary Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>VEM 5161 Veterinary General Pathology</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5171 Veterinary Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>VEM 5172 Veterinary Toxicology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5201 Clinical Techniques and Physical Diagnosis</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5221 Veterinary Clinical Pathology</td>
<td>4</td>
</tr>
<tr>
<td>VEM 5261 Diagnostic Veterinary Radiology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5278 Theriogenology</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5301 Veterinary Cardiopulmonology</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5306 Veterinary Endocrinology</td>
<td>1</td>
</tr>
</tbody>
</table>

### Spring Semester - Sophomore Year (16 credits)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VEM 5162 Veterinary Systemic Pathology</td>
<td>3</td>
</tr>
<tr>
<td>VEM 5241 Veterinary Ophthalmology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5251 Emergency Medicine and Critical Care</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5286 Veterinary Clinical Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5305 Veterinary Urology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5309 Veterinary Gastroenterology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5384 Veterinary Neurology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5387 Veterinary Dermatology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5402 Fundamentals of Soft Tissue Surgery</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5440 Fundamentals of Orthopedic Surgery</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5470 Veterinary Anesthesiology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5504 Veterinary Preventive and Production Medicine</td>
<td>2</td>
</tr>
</tbody>
</table>
Phase III Courses

This phase of the professional curriculum is divided into four categories:

- Junior clerkships,
- Essential and elective didactic courses,
- Senior clerkships, and
- Externships.

Phase III begins immediately following the spring semester of the sophomore year and continues through graduation. The summer semester between the junior and senior year is open for senior students to perform in-house clerkships or externships as students desire.

Junior Clerkships

Junior clerkships are scheduled during the summer and fall semesters of the junior year which occupies a 32-week period. The purpose of this phase is to provide students a solid introduction to clinical medicine so they can carry this knowledge into advanced didactic classes. Junior clerkships are two or four weeks in duration, and students typically earn two or four credits per clerkship depending on the length of the clerkship; core applied pathology is an exception as it is taught only in the afternoons for a two-week duration and provides students only one credit of university work. All required clerkships must be completed prior to graduation, including a minimum of six weeks of medicine and six weeks of surgery.

<table>
<thead>
<tr>
<th>Junior Clinical Clerkships: Summer and Fall Semesters Junior Year (31 credits)</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Core and Required Clinical Clerkships</strong></td>
<td></td>
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<tr>
<td>VEM 5730 Required Practice Based Equine Clerkship [PBE]*</td>
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</tr>
<tr>
<td>VEM 5733 Required Large Animal Medicine Clerkship [LAM]*</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5735 Required Food Animal Reproduction &amp; Medicine Service Clerkship [FARMS]*</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5737 Required Large Animal Surgery Clerkship [LAS]*</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5741 Required Small Animal Medicine Clerkship [SAM]</td>
<td>Var</td>
</tr>
<tr>
<td>VEM 5743 Required Outpatient Medicine &amp; Dentistry Clerkship [OUT-MED]</td>
<td>(2/4)</td>
</tr>
<tr>
<td>VEM 5745 Required Small Animal Surgery Clerkship [SAS]</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5751 Required Applied Pathology Clerkship [PAT]</td>
<td>Var</td>
</tr>
<tr>
<td>VEM 5761 Required Anesthesiology Clerkship [ANE]</td>
<td>(2/4)</td>
</tr>
<tr>
<td>VEM 5783 Required Radiology Clerkship [RAD]</td>
<td>1</td>
</tr>
</tbody>
</table>

The phase III/senior (clinical) year requires students to take a minimum of six weeks total from three of the four starred clinical services above. This allows for more readily available opportunities for students with large animal interest to participate in LAM, PBEC, LAS, or FARMS as elective rotations. The following combinations are the options:

- LAM+LAS+PBEC=6 weeks
- LAS+PBEC+FARMS=6 weeks
- PBEC + FARMS+ LAM = 6 weeks
- FARMS+ LAM + LAS = 6 weeks

Immediately prior to beginning the junior clerkships, students are asked to declare whether they desire to complete their junior clinical education with more initial emphasis in small or large animal veterinary medicine. Students who elect to focus their junior clinical education toward a large animal emphasis are permitted to decide...
whether they wish to satisfy their medicine and surgery graduation requirements by completing either (1) 4 weeks each of SAM and SAS, plus 2 weeks each of LAM and LAS or two weeks each of SAM and SAS, plus four weeks each of LAM and LAS During the Junior Clerkships, students are offered four weeks of vacation.

**Essential and Elective Didactic Courses**

Prior to end of the junior clerkships and the beginning of the spring semester of the junior year, students are asked to select an area of focused concentration for the remaining aspects of their DVM education. Areas of focused concentration are:

- Small animal medicine and surgery
- Equine medicine and surgery
- Food animal medicine
- General (mixed) veterinary medicine and surgery.

Although students are required to select an area of focused concentration, this selection does not influence which essential courses they are required to complete to earn the DVM degree. (The single exception is that students who select food animal medicine as an area of concentration are required to complete ruminant medicine as an essential course.) The list of essential courses is offered during the spring and fall semesters of the junior and senior years. The credit hours earned for successful completion of these courses is shown in Table 1. Table 2 provides the specific course numbers, titles, and credit hours for the essential courses.
Elective didactic courses are also offered during the spring and fall semesters of the junior and senior years. Students choose these courses to enhance their professional training based on their personal career interests. Enrollment in some of these courses is limited and depends on which area of focused concentration the student has chosen, which means that not all courses are available to all students. In addition, simultaneous scheduling of some courses occurs, which limits enrollment opportunities.

**Table 1. Essential Courses**

<table>
<thead>
<tr>
<th>Course Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anesthesiology, Small or Large Animal Anesthesiology</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacology, Small or Large Animal Clinical Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>Microbiology, Small or Large Animal Applied Microbiology</td>
<td>1</td>
</tr>
<tr>
<td>Parasitology, Small or Large Animal Parasitology</td>
<td>1 or 2</td>
</tr>
<tr>
<td>Pathology, Small or Large Animal Pathology</td>
<td>1</td>
</tr>
<tr>
<td>Radiology, Small or Large Animal Radiology and Ultrasound</td>
<td>1</td>
</tr>
<tr>
<td>Medicine, Small Animal or Equine Medicine</td>
<td>4 or 3</td>
</tr>
<tr>
<td>Surgery, Small or Large Animal Soft Tissue and Orthopedic Surgery</td>
<td>4 or 3</td>
</tr>
</tbody>
</table>

*Students who choose to focus on food animal medicine are required to complete VEM 5355 Ruminant Medicine (two credits) along with the small animal medicine, equine medicine, or dairy production medicine course.

**Table 2. Spring Semester Junior and Fall Semester Senior Essential Courses**

<table>
<thead>
<tr>
<th>Essential Didactic Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VEM 5032 Veterinary Business and Professional Development*</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5035 Veterinary Business Management*</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5143 Small Animal Applied Veterinary Microbiology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5144 Large Animal Applied Veterinary Microbiology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5153 Small Animal Parasitology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5154 Large Animal Parasitology</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5164 Small Animal Pathology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5165 Large Animal Pathology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5262 Advanced Small Animal Diagnostic Imaging</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5264 Large Animal Radiology and Ultrasound</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5288 Small Animal Clinical Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5289 Large Animal Clinical Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5325 Small Animal Medicine</td>
<td>4</td>
</tr>
<tr>
<td>VEM 5335 Equine Medicine</td>
<td>3</td>
</tr>
<tr>
<td>VEM 5355 Ruminant Medicine</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5422 Equine Surgery and Lab</td>
<td>3</td>
</tr>
<tr>
<td>VEM 5432 Advanced Small Animal Surgery</td>
<td>3</td>
</tr>
<tr>
<td>VEM 5433 Small Animal Surgery Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5472 Small Animal Anesthesiology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5473 Large Animal Anesthesiology</td>
<td>1</td>
</tr>
<tr>
<td>Elective Didactic Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>VEM 5003 End of Life Issues in Veterinary Medicine</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5061 Introduction to Veterinary Disaster Response</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5176 Poisonous Plants</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5206 Advanced Veterinary Animal Clinical Behavior</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5208 Additional Approaches to Disease Prevention and Treatment</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5222 Cytodiagnosis in Veterinary Practice</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5225 Small Animal Clinical Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5242 Small Animal Ophthalmology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5243 Equine Ophthalmology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5271 Small Animal Reproductive Medicine</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5274 Equine Reproduction</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5277 Bovine Reproduction</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5303 Small Animal Hematology</td>
<td>1</td>
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<tr>
<td>VEM 5304 Small Animal Neurology</td>
<td>1</td>
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<tr>
<td>VEM 5307 Small Animal Dermatology</td>
<td>2</td>
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<tr>
<td>VEM 5308 Veterinary Medical Oncology</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5311 Avian Health and Diseases</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5313 Poultry Diseases</td>
<td>1</td>
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<tr>
<td>VEM 5320 Shelter Animal Behavior and Welfare</td>
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<tr>
<td>VEM 5322 Shelter Medicine</td>
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<tr>
<td>VEM 5324 Forensic Veterinary Medicine</td>
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<tr>
<td>VEM 5342 Community Cat Management</td>
<td>1</td>
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<tr>
<td>VEM 5343 Small Animal Dentistry</td>
<td>1</td>
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<tr>
<td>VEM 5352 Dairy Production Medicine</td>
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<tr>
<td>VEM 5363 Diseases of Laboratory Animals</td>
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<tr>
<td>VEM 5364 Clinical Medicine and Surgery of Rabbits, Rodents, and Ferrets</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5370 Reptile Medicine and Surgery</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5377 Marine and Large Mammal Medicine</td>
<td>1</td>
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<tr>
<td>VEM 5378 SeaVet Clinical Training</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5501 Clinical Epidemiology</td>
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<tr>
<td>VEM 5503 Veterinary Epidemiology</td>
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<tr>
<td>VEM 5506 International Veterinary Medicine</td>
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<tr>
<td>VEM 5530 Beef Production Medicine</td>
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<tr>
<td>VEM 5571 Emerging Diseases</td>
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<tr>
<td>VEM 5902 Supervised Academic Teaching Development</td>
<td>Var 1-3</td>
</tr>
<tr>
<td>VEM 5904 Independent Study for International Veterinary Medicine</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5912 Supervised Veterinary Medical Research</td>
<td>Var 1-3</td>
</tr>
<tr>
<td>VEM 5931 Topics in Veterinary Medicine</td>
<td>1</td>
</tr>
</tbody>
</table>

* required during the spring and fall semesters
Senior Clerkships

*final semester of DVM studies

Senior students are required to complete a minimum of 16 weeks of clinical clerkships during the spring semester of their senior year regardless of the number of credits they have accumulated toward graduation. A minimum of 150 credit hours are needed to graduate from the College of Veterinary Medicine. If a senior student has not completed their clinical clerkships prior to this final semester of DVM work, they must do so during this time. During this time, seniors will have at most eight weeks of required clerkship remaining, but many students will have satisfied these requirements by completing required clerkships during scheduled elective times offered during their junior clerkships and during the summer between their junior and senior years. As a result, many senior students have multiple opportunities to schedule elective clerkships during their final semester of clinical studies.

<table>
<thead>
<tr>
<th>Elective Clinical Clerkship</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>VEM 5315 Poultry Medicine Practicum</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5344 Small Animal Dentistry Skills and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5374 Diseases of Warm Water Fish</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5821 Advanced Zoological Medicine Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5830 Practice Based Equine Clerkship Elective</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5833 Advanced Large Animal Medicine Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5835 Advanced Food Animal Reproduction &amp; Medicine Service Clerkship (FARMS)</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5836 Food Animal Production Medicine Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5837 Advanced Large Animal Surgery Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5841 Advanced Small Animal Medicine Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5843 Outpatient Medicine and Dentistry Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5844 Introduction to Small Animal Dentistry</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5845 Advanced Small Animal Surgery Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5847 Veterinary Emergency Critical Care Clinical Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5851 Advanced Applied Pathology Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5854 Clinical Pathology Elective</td>
<td>1</td>
</tr>
<tr>
<td>VEM 5855 Clinical Pathology Special Elective</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5861 Advanced Anesthesiology Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5862 Veterinary Cardiology Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5869 Advanced Dermatology Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5873 Veterinary Oncology</td>
<td>2</td>
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<tr>
<td>VEM 5875 Advanced Neurology Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5876 Acupuncture Elective Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5877 Advanced Ophthalmology Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5883 Advanced Radiology Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5885 Advanced Equine Theriogenology Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5886 Stud Farm Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5888 Bovine Reproduction Clerkship</td>
<td>2</td>
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<tr>
<td>VEM 5890 Consultations in Shelter Animal Medicine</td>
<td>2</td>
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<tr>
<td>VEM 5891 Shelter Animal Medicine</td>
<td>2</td>
</tr>
<tr>
<td>VEM 5892 Special Projects (Externships)</td>
<td>2</td>
</tr>
</tbody>
</table>
Student Externships

Externship opportunities are considered valuable in our curriculum. Students are eligible to perform approved externships once they have begun their junior clerkships. With the exception of externships related to the certificate in International Veterinary Medicine, externships are not granted prior to this time. During the spring semester of the senior year, students may only complete an externship during a period when they have been granted vacation. The maximum number of credits a student may accumulate towards graduation is eight. Students are permitted to complete three externships, one of which can be for a month in duration and will be eligible for four credits; the remaining two externships will only be eligible for two credits per two-week experience. Students may also pursue externship experience outside the United States through the Office of International Programs. Students enrolled in the Certificate of International Veterinary Medicine may pursue externships at any point in their DVM career to fulfill certificate requirements.

Important Facts and Regulations for Students about Completing Externships

- Externships are optional and are not required to graduate.
- Externships are pass/fail.
- Mandated by the college, students must remain on campus during the last term of the senior year. Thus, all externships must be completed by the end of the fall term of the senior year.
- Juniors and seniors are the only students eligible to register for externships.

Earning Externship Credit

- Students may complete up to three externships for credit.
- Students have the option to earn 2, 4, 6, or 8 credits.
  - If the maximum number of credits allowed (8) have been completed, any other externship a student chooses to complete after that will simply be for experience and will not be eligible for credit.
- All externships a student plans to complete must be at different locations.
- You must stay a minimum of two weeks at one location or a maximum of four weeks in order to receive credit.
  - In the event the location you have chosen requires an odd length of time for you to be there, for instance three or six weeks, you would simply earn 2 credits if you are there three weeks or 4 credits if you are there six weeks.
- All externships a student plans to complete must be noted on their schedule in advance. Any externship completed that is otherwise not on the student’s schedule will not be eligible for credit. Credit is not disbursed retroactively.

Examples of Potential Externship Planning

<table>
<thead>
<tr>
<th>Externship Work</th>
<th>Credits Earned</th>
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<tbody>
<tr>
<td>2 weeks at 1 location</td>
<td>2</td>
</tr>
<tr>
<td>1 month at 1 location</td>
<td>4</td>
</tr>
<tr>
<td>3 weeks at 3 different locations</td>
<td>6</td>
</tr>
<tr>
<td>2 weeks at 2 different locations plus 1 month at different location</td>
<td>8</td>
</tr>
</tbody>
</table>

*2 weeks = 10 business days  *1 month = 20 business days
Choosing a Practice/Location

- The practice(s)/location(s) you decide to complete your externship(s) at must be approved by our college.
- To have a practice/location approved, please provide them with an application. This application must be filled out entirely and must include any additional paperwork explaining the questions/statements list on the back of the application. Once completed, they may e-mail, fax, or mail the application and paperwork to me. The third Tuesday of every month, the externship committee will review all received applications. Lastly, I will release an e-mail to all juniors and seniors notifying them of those practices that were approved.

Student Responsibilities

- Apply and make arrangements with the practice(s)/location(s) chosen.
- Confirm understanding of UFCVM externship rules and regulations and adhere to all in order to ensure proper earning of credits.
- Communicate any problems or issues that arise before, during, or after an externship to Dot McColskey.
- Supply supervising veterinarian with a copy of the evaluation form.
- Complete evaluation of experience at practice(s)/location(s) upon return to school in order to receive copy of evaluation and grade submitted by supervising veterinarian(s).
- Schedule brief meeting with Dot McColskey to review your plans.

<table>
<thead>
<tr>
<th>Externship Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dot McColskey</td>
</tr>
<tr>
<td><a href="mailto:mccolskeyd@ufl.edu">mccolskeyd@ufl.edu</a></td>
</tr>
<tr>
<td>Phone: 352-294-4260</td>
</tr>
<tr>
<td>Fax: 352-846-2744</td>
</tr>
</tbody>
</table>

Courses of Instruction

Department of Infectious Diseases and Pathology

**VEM 5001** Career Opportunities in Veterinary Medicine - 1 credit. This course is to explore the various aspects of veterinary medicine as a profession, and all the fields available. Course Coordinator - Dr. L. Farina; Grading System - Pass/Fail.

**VEM 5131** Veterinary Molecular Biology - 2 credits. Basic overview of molecular genetics; alteration of genetic information and its consequences; molecular diagnostics and molecular therapeutics and biotech products. Course Coordinator - Dr. D. Allred; Grading System - Letter grade. May include both plus and minus letter grades.

**VEM 5141** Veterinary Microbiology - 3 credits. Structure, biochemistry and identification of pathogenic microorganisms. Causes, signs, treatment, control and prevention of infectious diseases in domestic animals. Course Coordinator - Dr. D. Brown; Grading System - Letter grade.

**VEM 5143** Small Animal Applied Veterinary Microbiology - 1 credit. Provides experience with the nuances of diagnosis and control of infectious diseases of special significance in feline, canine, and exotic animals. The application, use, abuse, and interpretation of commercially available diagnostic tools for small animal practitioners will be demonstrated and discussed. Course Coordinator - Dr. M. Brown; Grading System - Letter grade.

**VEM 5144** Large Animal Applied Veterinary Microbiology - 1 credit. Provides experience with applied microbiological techniques and equipment for diagnosing bacterial, viral, and fungal diseases of horses and cattle. Course Coordinator - Dr. M. Long; Grading System - Letter grade.
VEM 5150 Veterinary Parasitology - 1 credit. Basic principles of parasitology including morphology and life cycles of representative species inhabiting domestic animals and transmissible from animals to humans. Epidemiology, pathogenesis, pathology, and immunology are emphasized. Course Coordinator - Dr. H. Walden; Grading System - Letter grade.

VEM 5153 Small Animal Parasitology - 1 credit. Parasites of the small animal host; identification; nomenclature, mode of infection, diagnosis, treatment and control. Course Coordinator – Dr. H. Walden; Grading System - Letter grade.

VEM 5154 Large Animal Parasitology - 2 credits. Parasites of cattle, sheep, goats, pigs, and horses; identification, nomenclature, mode of infection, diagnosis, treatment and control. Course Coordinator - Dr. H. Walden; Grading System - Letter grade.

VEM 5161 General Pathology - 2 credits. General Pathology is a lecture and laboratory course introducing basic reactions of cells and tissues to injury that underlie all disease processes and include cell injury and death, circulatory disturbances, inflammation and repair as well as disturbances of growth and neoplasia. Lectures and laboratories focus on pathogenesis, morphologic features, pathophysiologic significance and sequelae of basic pathologic processes and serve as a prerequisite for Veterinary Systemic Pathology. Course Coordinator - Dr. W. Castleman; Grading System - Letter grade.

VEM 5162 Veterinary Systemic Pathology - 3 credits. Systemic pathology, a continuation of VEM 5161, involving study of pathogenesis and gross and microscopic characteristics of animal diseases. Course Coordinator - Dr. B. Sheppard; Grading System - Letter grade.

VEM 5164 Small Animal Pathology - 1 credit. Major disease entities of dogs and cats will be presented via a systems approach. Emphasis will be placed on recognition and understanding of the disease process and its clinical manifestations. Formulation of differential diagnosis will be stressed when pertinent. Course Coordinator - Dr. J. Abbott; Grading System - Letter grade.

VEM 5165 Large Animal Pathology - 1 credit. Pathology of the horse, cattle, sheep, goats, and swine from a systems perspective: including cardiovascular and respiratory, alimentary, hemolymphatic, endocrine, musculoskeletal, alimentary and hepatic systems, and non-neoplastic and neoplastic disorders. Course Coordinator - Dr. W. Castleman; Grading System - Letter grade.

VEM 5313 Poultry Diseases - 1 credit. Emphasis is on recognition and diagnosis of major diseases of chickens that affect commercial production. These include viral, bacterial, fungal and parasitic diseases, and nutritional deficiencies. Respiratory diseases will be highlighted. Basic avian anatomy is discussed, and there is one laboratory exercise on poultry gross pathology and necropsy. Vaccination is discussed briefly. Course Coordinator - Dr. C. Romero; Grading System - Letter grade.

VEM 5363 Diseases of Laboratory Animals - 1 credit. Diseases of Laboratory Animals - 1 credit. Covers etiology, pathogenesis, clinical signs, gross and microscopic pathology, diagnosis, treatment and control of diseases of laboratory animals concentrating on rodents, and non-human primates. The format of the course is lectures supplemented by kodachromes and handouts. Students considering this course should be aware that, due to the amount of material, coverage is necessarily somewhat superficial. The emphasis of the course is on spontaneous diseases and on understanding and preventing the potential complications due to disease. Course Coordinator - Dr. M. Reinhard; Grading System - Letter grade.

VEM 5571 Emerging Diseases - 1 credit. Issues surrounding transmission, control, regulation, and reporting of foreign and emerging diseases. Course Coordinator - Dr. F. Maunsell; Grading System - Pass/Fail.

VEM 5751 Core Applied Pathology Clerkship - 1 credit. Experience in gross necropsy, and histopathological examination. Pathology case material consists of in-patients as well as material referred from outside. Course Coordinator - Dr. B. Sheppard; Grading System - Letter grade.
VEM 5851 Advanced Applied Pathology Clerkship - 2 credits. Experience in gross necropsy and histopathological examination. Case material consists of in patients as well as material referred from outside. Requires advanced permission from the course coordinator, and the student must participate in the biopsy service. Course Coordinator - Dr. B. Sheppard; Grading System - Letter grade.

VEM 5991 Individualized Investigation - 2 credits. Students individually prepare an oral and written report on a research or clinical topic. Course Coordinator - Dr. M. Long; Grading System - Letter grade.

Department of Large Animal Clinical Sciences

VEM 5008 Professional Development - 1 credit. The goal of this course is to provide the students with information on selected topics to enhance the professional development of students and to let them know what resources are available to them over the next four years. Course Coordinator - Dr. J. Dias and Dr. M. Walsh; Grading System - Letter grade.

VEM 5032 Veterinary Business and Professional Development - 1 credit. Basic principles of veterinary professional management, career opportunities in the profession, personal financial planning, personnel management and employment law, and client relations. Issues of the human animal bond and animal welfare/animal rights are also addressed. Course Coordinator – Dr. D. Zimmel.; Grading System - Satisfactory/Unsatisfactory assessment.

VEM 5035 Veterinary Business Management - 1 credit. This course outlines the establishment and daily operations of veterinary practice. Basic office procedures, purchasing products, effective communications, malpractice and negligence, as well as medical ethics and legal responsibilities. Course Coordinator - Dr. D. Zimmel; Grading System - Pass/Fail.

VEM 5041 Contemporary Topics in Animal Welfare and Ethics - 1 credit. Introduction to basic moral theory and its relevance and application to ethical dilemmas and social issues in veterinary medicine. Course Coordinator – Dr. A. House; Grading System - Pass/Fail.

VEM 5201 Veterinary Clinical Techniques and Physical Diagnosis - 1 credit. An introduction to clinical methods used in examination and treatment of domestic animals. Course Coordinator - Drs. O. Rae and A. Stone; Grading System - Pass/Fail.

VEM 5271 Small Animal Reproductive Medicine - 1 credit. Course covers canine and feline reproductive endocrinology, infectious and metabolic diseases related to infertility, reproductive management, and artificial insemination. Course Coordinator – A. Kelleman; Grading System - Letter grade.

VEM 5274 Equine Reproduction - 1 credit. Advanced equine reproductive physiology and endocrinology with laboratory -including management of estrous; infertility in the mare; abortion; problems of gestation; post-partum problems; neonatal care; ultrasonography; stallion breeding soundness examination; semen handling and preservation; stallion infertility. Course Coordinator - Dr. M. MacPherson; Grading System - Letter grade.

VEM 5277 Bovine Reproduction - 1 credit. Special emphasis on problems in bovine reproduction including diagnosis of pregnancy, postpartum care, rebreeding, abortion, evaluation of breeding soundness, heifer management, embryo transfer, ultrasonography, teaser bull management, reproductive surgery. Pre-Requisite to VEM 5888 - Bovine Reproduction Clerkship. Course Coordinator - Dr. C. Risco; Grading System - Letter grade.

VEM 5278 Theriogenology - 2 credits. Basic principles of obstetrics, gynecology, andrology, genital diseases, fertility control and artificial insemination of domestic animals. Course Coordinator - Dr. C. Risco; Grading System - Letter grade.
VEM 5315  Poultry Medicine Practicum - 2 credits. Clinical experience in poultry veterinary medicine. Exposure to poultry research, teaching and diagnostic activities. Course Coordinator - Dr. G. Butcher; Grading System - Letter grade.

VEM 5335  Equine Medicine - 3 credits. Essentials of equine internal medicine including fluid therapy, cardiopulmonology, gastroenterology, neurology, hemolymphatic disorders, dermatology, and special problems in neonatology. Course Coordinator - Dr. R. MacKay; Grading System - Letter grade.

VEM 5352  Dairy Production Medicine - 1 credit. Introduction to topics in dairy herd health and production management. Topics covered include record keeping systems, implementation and evaluation of reproductive programs, milk quality and milking management, nutrition programs, replacement rearing programs, individual animal health management and client education. Course Coordinator - Dr. A. Donovan; Grading System - Letter grade.

VEM 5355  Ruminant Medicine - 2 credits. Gastroenterology, respiratory diseases, neurology, cardiovascular diseases, hemolymphatic disorders, and dermatology of ruminants. Course Coordinator - Dr. C. Sanchez; Grading System - Letter grade.

VEM 5374  Diseases of Warm Water Fish - 2 credits. Diagnosis and management of diseases of warm water fish. Emphasis on aquarium fish with consideration of food fish production and game fish. Course Coordinator - Dr. R. Francis-Floyd; Grading System - Letter grade.

VEM 5377  Marine Mammal Medicine - 1 credit. To educate students in the basic science, husbandry, medicine and surgery of large mammal. To understand the classification of mammals, special husbandry issues and management of species, including medicine surgery and anesthesia. Course Coordinator - Dr. M. Walsh; Grading System - Pass/Fail.

VEM 5378  SeaVet Clinical Training - 3 credits. SeaVet I is a new training program in marine mammal science and medicine. This will be the second offering of this course. The curriculum will emphasize species native to Florida such as the manatee and small cetaceans. A segment on sea turtles will also be included. The course is intended to serve as an introduction to marine mammal biology, natural history and captive husbandry. Common health concerns of both free-ranging and captive populations will be discussed with emphasis on management and disease prevention. The course is intended for students in veterinary medicine and related disciplines as well as graduate veterinarians, professional biologists, marine mammal trainers and agency personnel. Course Coordinator - Dr. R. Francis-Floyd; Grading System - Letter grade.

VEM 5422  Equine Surgery and Lab - 3 credits. Soft tissue and orthopedic lectures and laboratories emphasizing surgical interventions for diseases and injuries of horses. Course Coordinator - Dr. M. Brown; Grading System - Letter grade.

VEM 5470  Veterinary Anesthesiology - 1 credit. Physics and chemistry of anesthetics; anesthetic management and monitoring; general and regional anesthesia of small animals, large animals and exotic animals. Course Coordinator - Dr. L. Pablo; Grading System - Letter grade.

VEM 5472  Small Animal Anesthesiology - 1 credit. The course deals with the principles and practice of small animal anesthesia. The topics include the use of small animal anesthetic machines, perianesthetic drugs, monitoring, choice of inhalant agents, perioperative pain management, management of complications, and dysrhythmias during anesthesia, local anesthetic techniques, epidural drugs, ventilatory support, and anesthetic management of patients with specific diseases and procedures. Anesthesia of small mammals is also discussed. Course Coordinator - Dr. L. Pablo; Grading System - Letter grade.

VEM 5473  Large Animal Anesthesiology - 1 credit. The course deals with the principles and practice of large animal anesthesia. The topics include perianesthetic drugs, field anesthesia, monitoring, perioperative pain management, management of complications, local anesthetic techniques, ventilatory support, and
anesthetic management of patients with specific diseases and procedures. Anesthesia of pigs, cattle, small ruminants, and camels is also discussed. Course Coordinator - Dr. L. Pablo; Grading System - Letter grade.

**VEM 5501** Clinical Epidemiology - 1 credit. Introduction to food animal oriented clinical epidemiology. Topics covered include epidemiological history and principles, interpretation of diagnostic tests, measurement of disease frequency, epidemiologic criteria for association in disease, confounding and interaction, disease outbreak and disease investigation. Course Coordinator - Dr. A. Donovan; Grading System - Letter grade.

**VEM 5503** Veterinary Epidemiology - 2 credits. Principles of epidemiology in the study of diseases in animal populations. Course Coordinator - Dr. J. Hernandez; Grading System - Letter grade.

**VEM 5504** Veterinary Preventive and Production Medicine - 2 credits. Introduction to basic concepts in preventive and production medicine with emphasis on herd health and production programs for domestic animals including cattle, (dairy and beef), small ruminants, swine and companion animals. Epidemiological and economic aspects are combined with production health, regulatory and preventive medicine considerations. Course Coordinator - Dr. C. Risco; Grading System - Letter grade.

**VEM 5506** International Veterinary Medicine - 1 credit. To develop an awareness of the impact that veterinary medicine has on the health and well-being of people and animals in foreign countries, and explore opportunities in international veterinary medicine. Course Coordinator - Dr. J. Hernandez; Grading System - Pass/Fail.

**VEM 5505** Emerging and Exotic Diseases - 1 credit. Distance Education. Course Coordinator - Dr. F. Maunsell – pass/fail.

**VEM 5507** Beef Production Medicine - 1 credit. Emphasis is given to beef cattle health including topics in the principles and practices of beef cattle production and herd health management, cattle regulatory issues and quality assurance, nutrition and feeding, genetics, reproduction, behavior, practice economics, and computerized management of health and production records. Course Coordinator - Dr. D.O. Rae; Grading System - Letter grade.

**VEM 5508** Practice Based Equine Clerkship – 2 credits. The purpose of this course is to provide students with additional and advanced on-farm primary care experience with horses in physical examinations, diagnosis, treatment, herd health, routine surgery and practice management. Course Coordinator – Dr. A. House; Grading System – Pass/Fail

**VEM 5530** Core Large Animal Medicine Clerkship - 2 credits. Clinical experience in medicine of large domestic animals. History taking, physical examination and management of hospital patients and out patients. Course Coordinator - Dr. R. Mackay; Grading System - Letter grade.

**VEM 5535** Core Food Animal Reproduction and Medicine Service Clerkship (FARMS) - 2 credits. Clinical experience is provided in medicine, surgery and epidemiology of bovine (beef and dairy), ovine and porcine species. Herd and individual animal history taking, physical examination, diagnostic methods, treatment and management of patients are the core of instruction. Course Coordinator - Dr. O. Rae; Grading System - Letter grade.

**VEM 5537** Core Large Animal Surgery Clerkship - 2 credits. Clinical experience in surgery of equine, bovine, porcine, camelid and ovine species. History taking, physical examination and pre-and post-operative management of hospital patients and out patients. Course Coordinator - Dr. D. Freeman; Grading System - Letter grade.

**VEM 5561** Core Anesthesiology Clerkship - 2 credits. Clinical experience in anesthesiology and pulmonary function. Course Coordinator - Dr. L. Pablo; Grading System - Letter grade.
Advanced Practice Based Equine Clerkship – 2 credits. The purpose of this course is to provide students with additional and advanced on-farm primary care experience with horses in physical examinations, diagnosis, treatment, herd health, routine surgery and practice management. Course Coordinator – Dr. A. House; Grading System – Pass/Fail

Advanced Large Animal Medicine Clerkship - 2 credits. Clinical experience in medicine of large domestic animals. History taking, physical examination and management of hospital patients and out patients. Course Coordinator - Dr. R. Mackay; Grading System - Letter grade.

Elective Food Animal Reproduction and Medicine Service Clerkship (FARMS) - 2 credits. This elective course provides an advanced clinical experience in medicine, surgery and epidemiology of bovine (beef and dairy), ovine and porcine species. Herd and individual animal history taking, physical examination, diagnostic methods, treatment and management of patients are the core of instruction. Advanced student involvement and participation are expected. Course Coordinator - Dr. O. Rae; Grading System - Letter grade.

Special Elective Food Animal Production Medicine Clerkship - 2 credits. Advanced clinical instruction regarding food animal medicine, surgery and epidemiology. Students are assigned specific and challenging case work-ups to be developed in depth over the rotation period. Time and diagnostic resources and tools are made available to solve cases and establish recommendation for management of the case challenge. Course Coordinator - Dr. O. Rae; Grading System - Letter grade.

Advanced Large Animal Surgery Clerkship - 2 credits. Clinical experience in surgery of equine, bovine, porcine, camelid and ovine species. History taking, physical examination and pre-and post-operative management of hospital patients and out patients. Course Coordinator - Dr. D. Freeman; Grading System - Letter grade.

Advanced Anesthesiology Clerkship - 2 credits. Clinical experience in anesthesiology and pulmonary function. Course Coordinator - Dr. L. Pablo; Grading System - Letter grade.

Equine Theriogenology Clerkship - 2 credits. Clinical experience in diagnosis and treatment of diseases of the reproductive system of large animals. Course Coordinator - Macpherson; Grading System - Letter grade.

Stud Farm Clerkship - 2 credits. Introduction to stud farm management factors as they relate to veterinarians. Course Coordinator - TBA; Grading System - Letter grade.

Bovine Reproduction Clerkship - 2 credits. Advanced clinical training in bovine reproduction. Pre-requisite VEM 5277 required. Course Coordinator - Dr. C. Risco; Grading System - Letter grade.

Special Projects - 2 credits. Clinical or research experience augmenting the core clerkships. Course Coordinator - Variable; Grading System - Satisfactory/Unsatisfactory assessment.

Special Projects/International Externship - 2 credits. Externship opportunities are anticipated in primary care medicine, corporate veterinary medicine (pharmaceuticals, pet nutrition), government/regulatory medicine (USDA, military, public health organizations), and non-government organizations or humanitarian groups (Christian Veterinary Mission). Students pursuing externship after start of core clerkships may receive a maximum of 2 DVM externship credits. Students enrolled in the Certificate in International Veterinary Medicine may pursue externships at any point in DVM career to fulfill certificate requirements. Course Coordinator - Dr. J. Hernandez; Grading System - Satisfactory/Unsatisfactory assessment.

Topics in Veterinary Medicine - 1 credit. The objectives of this course are to enhance the UF CVM international profile by creating a forum for presentation of faculty/resident/intern/student international activities and to facilitate international opportunities for students. Course Coordinator – various, Grading System - Pass/Fail.
Department of Physiological Sciences

**VEM 5101** Veterinary Gross Anatomy - 4 credits. Gross anatomy of organ systems in companion animals. Course Coordinator - Dr. S. Tevosian; Grading System - Letter grade.


**VEM 5111** Animal Systems II - 7 credits. Continuation of Animal Systems I. VEM 5110 is a prerequisite to VEM 5111. Musculoskeletal - Hayward; Cardiology - Hayward; Respiration - P. Davenport; Reproduction - M. Pozor. Course Coordinator - Dr. D. Bolser; Grading System - Letter grade.

**VEM 5112** Animal Systems III - 7 credits. Continuation of Animal Systems II. VEM 5111 is a prerequisite to VEM 5112. Hematology - J. Harvey; Digestion - D. Freeman; Anatomy - R. Johnson; Renal - D. Bolser. Course Coordinator - Dr. D. Bolser; Grading System - Letter grade.

**VEM 5113** Veterinary Embryology - 1 credit. Developmental anatomy of organ systems and congenital malformations. Course Coordinator - Dr. R. Reep; Grading System - Letter grade.

**VEM 5171** Veterinary Pharmacology - 3 credits. Introduction to general principles of pharmacology, with emphasis on selected classes of drugs that are used commonly in veterinary therapeutics, including mechanisms of action, adverse effects, indications for use as well as species-related differences in drug actions and restrictions. Course Coordinator - Dr. T. Vickroy; Grading System - Letter grade.

**VEM 5172** Veterinary Toxicology - 1 credit. Principles of toxicology and mechanisms of antidotal therapy. Course Coordinator – Dr. L. Stuchal; Grading System - Letter grade.

**VEM 5176** Poisonous Plants - 1 credit. The course is designed to expose students to the problems of plants poisonous to domestic animals, especially livestock and other farm animals. Emphasis will be placed on identification of plants from slides, dried specimens and live specimens presented during lecture and discussion periods. One outside lab periods will be scheduled. Students will become familiar with the general clinical signs of poisoning, postmortem lesions, species of animal most commonly affected, conditions of poisoning, and the toxic principle. Additionally, students will become familiar with the relative abundance and habitats of local poisonous plants. Course Coordinator – Dr. R. Weil; Grading System - Letter grade.

**VEM 5221** Veterinary Clinical Pathology - 4 credits. This is an introductory course designed to provide basic knowledge about veterinary clinical pathology. The major goal of this course is that students be able to understand and use clinical pathology test results (complete blood cell count, serum biochemistry, urinalysis, hemostatic testing, and cytology) to diagnose and monitor animal diseases in clinical practice. In general, exam questions will focus upon recall of information taught during all course meetings (lectures, case discussions, laboratories) and application of that information to interpret clinically based laboratory data. Course Coordinator – Dr. H. Wamsley; Grading System – Letter grade

**VEM 5222** Cytodiagnosis in Veterinary Practice - 1 credit. Lecture, discussion and laboratory approach to the use of cytology in a veterinary practice. Emphasis will be placed on the cytologic evaluation of body fluids (effusions, synovial fluid, spinal fluid), selected internal organs (lymph nodes, liver, spleen, prostate), and tissue masses (neoplasia). Prognosis and therapy of selected disorders will be covered using case presentations in discussions and laboratories. Course Coordinator - Dr. R. Alleman; Grading System - Letter grade.
VEM 5289 Large Animal Clinical Pharmacology - 1 credit. Bovine and equine ethical therapeutics; issues of food and drug residues; industrial trials; parasite chemotherapy; pharmacology of muscle relaxants; quality control programs. Course Coordinator – TBA; Grading System - Satisfactory/Unsatisfactory assessment.

VEM 5303 Small Animal Hematology - 1 credit. Lecture, discussion, and lab approach to small animal hematology including the diagnosis and treatment of bone marrow disorders, immune-mediated diseases, and hemoparasites. This course is designed to provide clinical expertise in the use of hematology in the diagnosis and treatment of animal diseases. Some exposure to comparative hematology will also be provided. Course Coordinator - Dr. R. Alleman; Grading System - Letter grade.

VEM 5854 Clinical Pathology Elective - 1 credit. This is a half-day, two-week elective clerkship offered in the summer, fall, and spring each year. Course Coordinator - Dr. M. Dunbar; Grading System - Letter grade.

VEM 5855 Clinical Pathology Special Elective - 2 credits. Available during the summer to juniors and on space available basis during the spring to seniors only. Permission to take the course must be prearranged with the course coordinator. Course Coordinator - Dr. R. Alleman; Grading System - Letter grade.

Department of Small Animal Clinical Sciences

VEM 5003 End of Life Issues in Veterinary Medicine – 1 credit. The purpose of this course is to provide an introduction to specific information on the euthanasia of different species of animals as well as how to assist veterinary clients during the decision making process and support clients whose pets are dying or have died. Coordinator – Dr. J. Dias; Grading System – Pass/Fail

VEM 5061 VEM 5061 Introduction to Veterinary Disaster Response ( 1 credit) WEB BASED. Course Goal: Be prepared to respond to veterinary disaster events. Course Objectives: By the end of the course, students will: 1. Complete five online Federal Emergency Management Agency (FEMA) courses to obtain credentials as a basic-volunteer responder. 2. Know the Incident Command System (ICS) structure and why it is important for disaster management. 3. Identify a personal role within the ICS structure. 4. Know the potential roles served by volunteers and veterinarians within a disaster response. 5. Compare the response structure for animal disasters in Florida to the structures used in other locations. 6. Develop a personal disaster readiness plan. 7. Be ready to respond to a disaster if activated. Satisfactory/Unsatisfactory grade system. Course taught entirely online within the UF academic calendar for Fall 2012 ( August 22- December 5, 2012). Students must have a Gatorlink ID to access the course materials at https://lss.at.ufl.edu/ Instructor: Dr. Cynda Crawford. Course Coordinator: Dr. Terry Spencer

VEM 5115 Veterinary Histology - 1 credit. Introduction to the microanatomy of domestic mammals and the integument of domestic mammals. Course Coordinator - Dr. D. Samuelson; Grading System - Letter grade.

VEM 5181 Radiological Techniques - 1 credit. Principles of x-rays and radiographic images; radiation safety; animal positioning and x-ray technique charts for large and small animal units. Course Coordinator - Dr. M. Winter; Grading System - Letter grade.

VEM 5191 Introduction to Veterinary Animal Behavior - 1 credit. Comparative behavior of companion and domestic animals. Course Coordinator - Dr. T. Curtis; Grading System - Letter grade.

VEM 5206 Advanced Clinical Veterinary Animal Behavior - 1 credit. This is an interactive course. In addition to lectures on the use of psychoactive medications for behavioral disorders, how to implement a behavior modification plan, and an overview of the more common behavior problems encountered in veterinary practice, enrolled students will be presenting and reviewing behavior articles and presenting their own behavior cases. Course Coordinator - Dr. T. Curtis; Grading System - Letter grade.
VEM 5208 Complementary and Alternative Veterinary Medicine - 1 credit. This course covers areas in complementary and alternative veterinary medicine that are used as modalities in humans and animals for the treatment and prevention of disease. Course Coordinator - Dr. C. Medina; Grading System - Pass/Fail.

VEM 5220 Basic Veterinary Nutrition - 1 credit. Basic principles of veterinary nutrition including effects of deficiency, therapeutic nutrition, and nutrient requirements of diseased and convalescing animals. Course Coordinator - Dr. R. Hill; Grading System - Letter grade.

VEM 5225 Small Animal Clinical Nutrition - 1 credit. Didactic and problem-based approach to small and exotic animal clinical nutrition. Course Coordinator - Dr. R. Hill; Grading System - Letter grade.

VEM 5241 Veterinary Ophthalmology - 1 credit. Study of diseases of the eye and orbit of domestic animals. Laboratories in diagnostic procedures and surgical exercises. Course Coordinator - Dr. C. Plummer; Grading System - Letter grade.

VEM 5242 Small Animal Ophthalmology - 1 credit. Ophthalmologic examination techniques; problems in conjunctival and corneal disease, eyelid, nictitans and lacrimal disease, anterior segment disease, posterior segment disease, and ocular manifestations of systemic diseases. Course Coordinator – Dr. B. Mangan; Grading System - Letter grade.

VEM 5243 Equine Ophthalmology - 1 credit. Form, function, disease, and treatment of the equine eye. Course Coordinator – Dr. C. Plummer; Grading System - Letter grade.

VEM 5251 Emergency Medicine and Critical Care - 1 credit. Evaluation and monitoring of animal patients; shock syndromes; respiratory distress syndromes; hemorrhagic disorders; trauma; cardiopulmonary resuscitation and seizure. Course Coordinator - Dr. Bandt; Grading System - Letter grade.

VEM 5261 Diagnostic Veterinary Radiology - 1 credit. Interpretation of roentgen signs of normal and abnormal systems of small animals (dogs and cats). Course Coordinator - Dr. C. Berry; Grading System - Letter grade.

VEM 5262 Advanced Small Animal Diagnostic Imaging - 1 credit. Radiographic, ultrasound, and scintigraphic equipment and techniques for observing skeleton and soft tissues in order to identify sites of injury, disease, and other processes in small animals. Course Coordinator - Dr. C. Berry; Grading System - Letter grade.

VEM 5264 Large Animal Radiology and Ultrasound - 1 credit. Radiographic, ultrasound, and scintigraphic equipment and techniques for observing skeleton and soft tissue in order to identify sites of injury, disease, and other processes in large animals. Course Coordinator – Dr. N. Werpy; Grading System - Letter grade.

VEM 5286 Veterinary Clinical Pharmacology - 1 credit. This course builds on the fall sophomore core pharmacology course, VEM 5171, where students have already learned basic mechanisms of action of drugs. This course will focus on the clinical use of drugs in different disease processes with the intent of preparing the student for the clinical years. Course Coordinator – Dr. A. Estrada; Grading System - Letter grade.

VEM 5288 Small Animal Clinical Pharmacology - 1 credit. This course is designed to be a case based, interactive course where cases are presented on various topics related to small animal clinical pharmacology with the use of Turning Point to promote interaction between faculty and students. Various topics will be presented during this course related to the pharmacologic management of disease in the companion animal. Course Coordinator – Dr. A. Estrada; Grading System - Satisfactory/Unsatisfactory assessment based on attendance. Attendance is mandatory.
VEM 5301 Veterinary Cardiopulmonology - 2 credits. Veterinary medical aspects of diseases of the cardiovascular and respiratory systems of domestic animals. Course Coordinator - Dr. A. Estrada; Grading System - Letter grade.

VEM 5304 Small Animal Neurology - 1 credit. Course is designed to combine basic neuroscience and clinical neurology for students in the small animal area of concentration. Course Coordinators - Dr. T. Schubert; Grading System - Letter grade.

VEM 5305 Veterinary Urology - 1 credit. Clinical signs, diagnosis and treatment of diseases of the urinary system of domestic animals. Course Coordinator - Dr. Bandt; Grading System - Letter grade.

VEM 5306 Veterinary Endocrinology - 1 credit. Clinical signs, diagnosis and treatment of abnormal function of endocrine glands, including pituitary, thyroid, parathyroid, adrenal cortex, pancreas and gonads of domestic animals. Course Coordinator - Dr. M. Schaer; Grading System - Letter grade.

VEM 5307 Small Animal Dermatology - 2 credits. Advanced topics in small animal dermatology including recurrent canine pyoderma, management of dermatophytosis, allergies, autoimmune skin diseases, immunosuppressive drugs, nodular skin diseases, pruritus, otitis externa, cutaneous manifestations of systemic disease, feline dermatology, and genodermatoses. This course is a mixture of didactic lectures and case based discussions. Students should note that “VEM 5869 Dermatology Clerkship” is considered a pre-requisite for this didactic course. Although the instructor will permit student enrollment without having completed the pre-requisite VEM 5869 clerkship, prior completion of VEM 5869 is STRONGLY ENCOURAGED. Students who have not completed the clerkship will need to work harder to understand the problem-based learning and the diagnostic approaches. Coordinator Dr. R. Marsella; Grading System - Letter.

VEM 5308 Veterinary Medical Oncology - 1 credit. This course is designed to introduce the veterinary student to the incidence, clinical appearance, diagnostic techniques, treatment options, biological behavior, and prognosis associated with common tumors of the dog and cat. Course Coordinator - Dr. R. Milner; Grading System - Letter grade.

VEM 5309 Veterinary Gastroenterology - 1 credit. Clinical signs, diagnosis and treatment of abnormal function of the gastrointestinal system of domestic animals. Course Coordinators – Drs. Gallagher and C. Sanchez; Grading System – Letter grade.

VEM 5311 Avian Health and Diseases - 2 credits. Anatomy, physiology, husbandry and aviculture, diagnosis and treatment of pet birds. Course Coordinator - Dr. D. Heard; Grading System – Pass/Fail.

VEM 5322 Shelter Medicine - 1 credit. Students will learn the basics of infection control, preventive medicine, and vaccination strategies unique to the shelter environment. In addition they gain insight into animal abuse and neglect issues and the value of educating the public on spay/neuter procedures. Course Coordinator - Dr. N. Isaza; Grading System - Letter grade.

VEM 5324 Forensic Veterinary Medicine – 1 credit - This course will teach the student the many roles of the veterinarian regarding the investigation of crimes involving animals including crime scene investigation. The course will introduce the student to medico-legal death investigation and the application of forensic science to abuse cases. The student will learn how to work with investigators, prosecutors, and how to provide courtroom testimony. Students will be provided exposure to the application of veterinary forensics in crimes involving animals, including recognition of abuse, crime scene investigation, and interacting with the legal community. Course Coordinator – Dr. C. Crawford; Grading System – Letter grade.

VEM 5325 Small Animal Medicine - 4 credits. Essentials of small animal medicine including diagnosis and treatment of clinical problems of the cardiovascular, pulmonary, gastrointestinal, endocrine, urinary, and
hemolymphatic systems; includes infectious diseases, critical care, pediatrics, and dentistry. Course Coordinator – Dr. K. Cooke; Grading System - Letter grade.

**VEM 5342** Community Cat management – 1 credit – This course will use a combination of lectures, discussions, and clinical laboratories to cover the controversial topic of management of un-owned free-roaming community cats. Handling and surgical skills for both pediatric and adult cats undergoing spay and neuter surgery will be developed in a clinical environment. Course Coordinator – Dr. J. Levy; Grading System – Letter grade.

**VEM 5343** Small Animal Dentistry - 1 credit. To educate students in the basics of diagnosis of dental diseases and oral pathology, formulate a treatment plan, intraoral radiograph, tooth extraction and repair of jaw fractures. Course Coordinator - Dr. A. Stone; Grading System - Letter grade.

**VEM 5344** Small Animal Dentistry Skills and Techniques - 2 credits. Laboratory practicums and clinical experience in small animal and exotic species dentistry. History taking, physical examination, pre- and post-operative as well as medical management of dental patients. Course Coordinator - Dr. B. Welsch; Grading System - Letter grade.

**VEM 5364** Clinical Medicine and Surgery of Rabbits, Rodents, and Ferrets - 1 credit. Introduction to laboratory animal medicine, unique anatomy and physiology and nutritional diseases of lab animals. Treatment and diagnostics and emergency medicine and supportive care. Course Coordinator - R. Isaza; Grading System - Letter grade.

**VEM 5370** Reptile Medicine and Surgery - 1 credit. This one credit course is presented two hours daily for two weeks. It is a pass/fail course and Mader’s Reptile Medicine and Surgery is the required text for the course. Lectures cover basic biology and husbandry of reptile pets. Lecture topics also include nutrition and nutritional diseases, antimicrobials, anesthesia and surgery, diagnostic and therapeutic procedures and techniques, fungal and parasite diseases, and viral and bacterial diseases. Common clinical conditions of reptile patients such as thermal burns, infectious stomatitis, and reproductive disorders are also covered. The course includes two wet laboratories. In the first one, restraint and sample collection in snakes, turtles, and lizards is covered using teaching animals. In this laboratory non-invasive procedures such as blood collection and tracheal washes are performed. The second laboratory covers anesthesia and surgical anatomy of reptiles. Anesthesia demonstrations provide firsthand experience with induction, maintenance, and monitoring of reptile patients. Isoflurane is used following direct intubation in snakes, propofol is used for induction of iguanas, and medetomidine with a low dose of ketamine is used in turtles to produce profound sedation which is reversed with atipamazole. In the surgical anatomy portion of the laboratory, the anatomy related to various surgical procedures is reviewed using cadaver specimens of snakes, turtles, lizards, and alligators. The course culminates with a final examination the last day of the course. Course Coordinator - Dr. E. Jacobson; Grading System - Pass/Fail.

**VEM 5384** Veterinary Neurology - 1 credit. Evaluation of the neurologic patient with special emphasis on localization of lesions, formation of a differential diagnosis, development of a diagnostic plan, and recommendation for treatment of common neurologic disorders. The class is based largely on clinical case presentations. Course Coordinators – Dr. R. Clemmons; Grading System - Letter grade.

**VEM 5387** Veterinary Dermatology - 1 credit. Clinical signs, diagnosis and treatment of diseases of the skin of domestic animals. Course Coordinator – Dr. R. Marsella; Grading System - Letter grade.

**VEM 5402** Fundamentals of Soft Tissue Surgery - 2 credits. Fundamentals of aseptic technique, basic surgical techniques, wound healing and surgical management of disease. Surgical procedures for organ systems of domestic small animals. Course Coordinator - Dr. A. Morton and Dr. G. Ellison; Grading System - Letter grade.
VEM 5432 Advanced Small Animal Surgery - 3 credits. Problem oriented topics and mini-lectures in small animal soft tissue surgery including skin, oral cavity, nasal/mandible, esophagus, head/neck, intestine, thoracic cavity, urinary tract, liver/spleen; handling chest and abdominal trauma, reconstruction, and neoplasms. Basic and advanced principles and techniques of skeletal fixation, complications, and reconstructive techniques of orthopedic surgery for small animals. Course Coordinator - Dr. D. Lewis; Grading System - Letter grade.

VEM 5433 Small Animal Surgery Laboratory - 1 credit. The laboratory exercises will be divided evenly between soft tissue and orthopedic surgery techniques, equipment, and focus on procedures commonly performed on in small animal practice. Course Coordinator - Dr. G. Ellison; Grading System - Letter grade.

VEM 5440 Fundamentals of Orthopedic Surgery - 1 credit. Basic orthopedic techniques and principles. Course Coordinator - Dr. D. Lewis; Grading System - Letter grade.

VEM 5741 Core Small Animal Medicine Clerkship - 4 credits. Clinical experience in medicine of canine and feline species. History taking, physical examination and management of hospital patients and out patients. Course Coordinator - Dr. R. Hill; Grading System - Letter grade.

VEM 5743 Core Outpatient Medicine and Dentistry Clerkship - 2 credits. Clinical skills, basic knowledge and client communication skills are designed to teach students while providing routine veterinary care to clientele. Encompassing not only preventive medicine wellness but also comprehensive care for minor illness and injuries. Course Coordinator - Dr. A. Stone; Grading System - Letter grade.

VEM 5745 Core Small Animal Surgery Clerkship - 4 credits. Clinical experience in surgery of canine and feline species. History taking, physical examination and pre- and post-operative management of hospital patients and out patients. Course Coordinator - Dr. G. Ellison; Grading System - Letter grade.

VEM 5783 Core Radiology Clerkship - 2 credits. Clinical experience in exposure, development and reading of x-ray films. Clinical material, hospital patients and out patients are utilized for teaching the fundamentals of radiographic diagnosis. Course Coordinator - Dr. M. Winter; Grading System - Letter grade.

VEM 5821 Advanced Zoological Medicine Clerkship - 2 credits. Clinical experience in the diagnosis and treatment of diseases of pet animals, aquatic animals and exotic species. Course Coordinator - Dr. D. Heard; Grading System - Letter grade.

VEM 5841 Advanced Small Animal Medicine Clerkship - 2 credits. Clinical experience in medicine of canine and feline species. History taking, physical examination and management of hospital patients and out patients. Course Coordinator - Dr. R. Hill; Grading System - Letter grade.

VEM 5843 Advanced Outpatient Medicine and Dentistry Clerkship - 2 credits. Clinical skills, basic knowledge and client communication skills are designed to teach students while providing routine veterinary care to clientele. Encompassing not only preventive medicine wellness but also comprehensive care for minor illness and injuries. Course Coordinator - Dr. A. Stone; Grading System - Letter grade.

VEM 5845 Advanced Small Animal Surgery Clerkship - 2 credits. Clinical experience in surgery of canine and feline species. History taking, physical examination and pre- and post-operative management of hospital patients and out patients. Course Coordinator - Dr. G. Ellison; Grading System - Letter grade.

VEM 5847 Veterinary Emergency Critical Care Clinical Clerkship – 2 credits. The purpose of this course is to introduce the students to the emergency cases received on the triage service and to the critical care cases in our small animal ICU. The caseload will dictate the actual diseases that are seen clinically and therefore case based teaching will focus on emergency procedures, emergency treatment of the triage cases and also on the ICU case load. Each student will get critical ICU cases assigned and is expected to follow these cases through their rotation. Course Coordinator – Dr. C. Bandt; Grading System – Letter grade.
VEM 5862 Veterinary Cardiology Clerkship - 2 credits. Students will focus on history taking, physical examination, differential diagnosis, clinical diagnosis and treatment of cardiac diseases of dogs, cats and occasionally large animals and exotic species. Course Coordinator - Dr. A. Estrada; Grading System - Letter grade.

VEM 5869 Dermatology Clerkship - 2 credits. An extension of the core clerkship in dermatology. Course Coordinator - Dr. U. Oberkirchner and Dr. R. Marsella; Grading System - Letter grade.

VEM 5875 Advanced Neurology Clerkship - 2 credits. An extension of the core clerkship in neurology. Course Coordinator - Dr. T. Schubert; Grading System - Letter grade.

VEM 5876 Integrative Medicine Clerkship - 2 credits. To learn the basic principles and clinical applications in areas of integrative medicine including acupuncture, herbal medicine, rehabilitation and nutrition. Course Coordinator – Dr. Medina; Grading System - Letter grade.

VEM 5877 Ophthalmology Clerkship - 2 credits. Clerkship in small and large animal clinical ophthalmology. Students participate in the diagnosis and treatment of patients presented to the ophthalmology service. Course Coordinator - Dr. C. Plummer; Grading System - Letter grade.


VEM 5890 Consultations in Shelter Animal Medicine – 2 credits. Students will develop the ability to work with a client animal shelter to systematically gather data, perform observations, communicate findings, and provide resources regarding management, medical and husbandry practices, and facility use as related to animal health, welfare, and optimizing positive outcomes for shelter pets. Course Coordinator – Dr. J. Levy; Grading System – Letter grade

VEM 5891 Shelter Animal Medicine - 2 credits. The main purpose of the elective externship is to give veterinary students the opportunity to work in an animal shelter environment and experience the problem of pet overpopulation first hand. Course Coordinator - Dr. N. Isaza; Grading System - Letter grade.
IV. Educational Information

Class Schedules

Class schedules for all veterinary students are prepared and distributed by Ms. Dorothy McColskey in the Office for Students and Instruction at the beginning of each semester. Since an attempt is made to optimize the use of limited resources and time, a uniform weekly schedule is not always possible. Thus, the distributed schedule includes each day of the semester indicate the course and room for each period.

Scheduled exams are listed on the distributed schedule. Often exams will be scheduled during the first instructional period of the day. Laboratory exams require preparation, and they may be scheduled later in the day. Examination times may not be changed without full consent of the class and the instructor.

A list of items each student needs to provide for each course is distributed along with each semester schedule. This list includes laboratory supplies, instruments, protective clothing, and textbooks. Texts are listed in two categories:

- Required texts are heavily used in the course and the instructor expects each student to have ready access.
- Recommended texts will often be referred to and are generally felt to have valuable information or viewpoints.

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Classroom and Responsibilities

Much of the instruction that makes up the professional curriculum is conducted in our lecture halls and laboratories. It is the responsibility of the students as well as the instructor to ensure that the environment for learning is as close to optimal as possible. Conduct which interferes with the opportunity of other students to hear or view a presentation cannot be tolerated. Instructors have the authority to remove offending students from the classroom or lab. Students should work together to ensure that no students disrupt the class. Students must also be aware that they are not permitted to bring personal pets into the lecture room theater or laboratory classroom.

Attendance in all scheduled lectures and laboratories is expected. Students should make use of every opportunity to gain from the curriculum. It is unreasonable for students to expect individual instruction when they have made themselves unavailable for scheduled group activities. Laboratories frequently depend upon the joint activities of groups of students, and thus, an absence will often affect others. In any event, students are always responsible for all material and assignments from all scheduled activities. Instructors have the authority to administer unannounced examinations during lectures or laboratories. Instructors may also assess and record individual student attendance at any time. Course grades for those students who are absent without legitimate reason may be reduced by a half-letter grade for each instructional period for which an absence occurs. Instructors may also define a more strict attendance policy for their course as they deem appropriate, but they are responsible for informing students of their policy at the beginning of the course.
Clerkship Attendance and Responsibilities

Students are expected to attend and satisfactorily complete all clerkship responsibilities. Should a student miss a half or full clerkship day, the student may be issued an incomplete grade and be asked to return to the clerkship to complete the missed clinical education; service chiefs have the flexibility to issue a grade to these students should they feel the student has demonstrated acceptable clinical competence. Students who miss more than one day during a two-week clerkship will receive an incomplete grade, and the clerkship grade and university credit will not be issued until the student has satisfactorily completed the equivalent time missed.

Evaluation of Courses and Instruction

Students are encouraged to take the responsibility of evaluation seriously, and they are expected to consistently give it their best effort. Only with complete participation can the evaluations have the impact necessary to bring about improvements. Evaluations will be performed near the end of the course or clerkship. Students will be informed when the web based evaluation window opens and closes. Student evaluation of courses and instruction provides basic information which is used for three different functions:

- First and foremost, this information is feedback to the instructors in order to assist them in meeting the needs of the students. Just as exams provide necessary feedback in determining student progress and thus the success of the instruction, student opinions can assist in tailoring the course and instruction to the greatest need. Since all students may not learn in the same manner, it is not surprising that a single type of presentation cannot satisfy all students. Since few instructors have reached perfection in instruction technique, feedback is essential for improvement. The student evaluations provide some of that feedback.

- The second use of evaluation is in monitoring the curriculum. Students are the only ones to experience and view the entire professional curriculum. Their input, with respect to content and coverage, is often the only input on a course which is independently taught by the instructor, which makes it valuable. The students’ input is often the stimulus for further review by department chairs of the Curriculum Committee. Although the judgment of the students must be evaluated in the context of the whole curriculum, a view that they may not yet have, it is still a unique and valuable form of feedback.

- The third use of the evaluations is the mandated consideration of student evaluation of instruction as it relates to promotion, tenure, and salary decisions. Faculty evaluation is primarily the responsibility of the department chair, but participation in an evaluation by all the students has considerable impact. If we can assure that this evaluation represents the opinion of a mature class of students, without undue bias by individuals, this evaluation can be very influential. Failure of students to take seriously their part in the process reduces the impact of these evaluations on advancement considerations.

Evaluation of Faculty Didactic Teaching Efforts

Each instructor involved in didactic teaching efforts is evaluated electronically by the students in the course of his or her major involvement as determined by the department chair. The following 14 points are addressed by the evaluation and the mean ± the standard deviation of the responses to questions 1-7 and 10 are made to the public. Student responses to each question are limited to: poor, below average, average, above average, or excellent.

1. Description of course objectives and assignments
2. Communication of ideas and information
3. Expression of expectations for performance in this class
4. Availability to assist student in or out of class
5. Respect and concern for students
6. Stimulation of interest in course
7. Facilitation of learning
8. Enthusiasm for the subject
9. Encouragement of independent, creative, and critical thinking
10. Overall rating of instructor
11. Presents material in a logical and organized manner
12. Emphasizes the practical application of subject matter where possible
13. Uses visual and audiovisual illustrations appropriately and effectively
14. Handout material is a useful aid to learning

Comments are also solicited from students with respect to the instructor’s personal qualities or teaching skills, which contributed to or hindered the success of the course. In addition, comments are requested to determine the students’ overall opinions regarding the course and any printed materials associated with the course.

**Evaluation of Faculty Clinical Teaching Efforts**

Faculty teaching efforts in clinical clerkships are also evaluated. For each clerkship, students evaluate the clinical faculty member or members with whom there was a major clinical involvement. The evaluation questions are similar to those used in didactic teaching evaluation, but they do vary slightly. Listed below are the 16 questions used in the evaluation process. Once again, the mean ± the standard deviation of the responses to questions 1-7 and 10 are made available to the public. Again, student responses are limited to: poor, below average, average, above average, or excellent.

1. Description of course objectives and assignments
2. Communication of ideas and information
3. Expression of expectations for performance in this class
4. Availability to assist students in or out of class
5. Respect and concern for students
6. Stimulation of interest in course
7. Facilitation of learning
8. Enthusiasm for the subject
9. Encouragement of independent, creative, and critical thinking
10. Overall rating of instructor
11. Provides direction and feedback
12. Actively involves students
13. Discusses current developments and divergent points of view
14. Directs students to useful literature, objectively defines and synthesizes patient problems
15. Establishes rapport with and treats with respect students, other faculty members, animals, and clients
16. Shows interest in and/or exhibits a positive attitude about students’ professional performance

Again, students are asked to comment on each clinical instructor's personal qualities or teaching skills which contributed to or hindered the success of the student in the clinics. In addition, comments are requested to determine the students’ overall opinions regarding their clinical experience.
Grades

Grades provide essential feedback to students on their performance in a course. All courses are given letter grades except those listed as S/U. The letter grades and corresponding grade points are as follows:

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Incomplete grades (I) are given when course requirements have not been completed due to absence, illness, etc. The "I" automatically converts to "E" if the requirements are not completed by the conclusion of the subsequent semester. Grade point averages are computed using only grades from letter graded courses (see Academic Advancement Section for GPA requirements). Since the new grading scale went into effect at the beginning of the summer 2009 semester, all grades earned prior to the summer 2009 semester retain grade point values associated with the previous grading scale and student grade point averages are calculated using a combination of the former and current grading scales.

Grades are assigned only by course coordinators. It is their responsibility to assign a grade that reflects the student's performance on all assigned tasks. There is no college standard for equating test scores to letter grades, so each coordinator is strongly encouraged to set a standard of performance for the course and to grade in comparison to that standard.

Individual instructors may choose to give students who claim to have proficiency in a particular subject area an opportunity to do higher level work than what is required of the other students. This privilege can be offered only by the course coordinator to students who can provide documentation that they have completed and earned a grade of A in a course with the same content as the VEM course in which they are claiming proficiency.

Students awarded this opportunity must attend the VEM class in addition to completing additional work as specified by the instructor. The instructor must notify the Office for Students and Instruction of all students who have requested and been approved for this opportunity at the beginning of the course. A grade of S or U will be awarded to the approved student(s) by the course coordinator.

If a student believes their grade is incorrect, there are three steps that they may follow:

1. The student must collect the necessary information to demonstrate the error. They cannot depend merely upon recollection of a situation.
2. Then, the student needs to discuss the situation directly with the instructor involved. Remember: only the coordinator can change a grade. If satisfaction cannot be attained from the instructor, the student should confer with others responsible for the course. The usual order of responsibility is:
   a. Instructor
   b. Course Coordinator (if different than the instructor)
   c. Department Chairman
3. If the student has spoken with each of the people responsible for their course, the Associate Dean for Students and Instruction may be consulted with documentation of the response at each level.

Testing

Testing is an integral part of the education process as it provides the necessary feedback on student accomplishment and on the effectiveness of the teaching. Each course coordinator is responsible for designing tests and for scheduling them at times appropriate to the course sequence. The Office for Students and Instruction coordinates scheduling of exams. As often as possible, exams are scheduled in blocks or exam weeks. Instructors are free to choose the type of test that best fits their course and approach to teaching.
V. Certificate Programs

Certificate in Aquatic Animal Health

The University of Florida has an active aquatic animal health program that is a collaborative effort between the College of Veterinary Medicine, the Whitney Laboratory for Marine Bioscience, the Program in Fisheries and Aquatic Sciences (School of Forest Resources and Conservation, College of Agriculture and Life Sciences), and the Biology Department in the College of Liberal Arts and Sciences. Partnerships with federal and state agencies and other public and private aquatic institutions throughout the state further enhance the scope of the program, including USDA-APHIS-Veterinary Services, the Florida Fish and Wildlife Research Institute, Disney’s Animal Kingdom, SeaWorld, the Florida Aquarium, and commercial aquaculture facilities. Florida’s unique and diverse ecosystems, and broad academic programs, create a unique opportunity for veterinary students to receive specialized and directed training within the veterinary curriculum. The purpose of this certificate program is to identify and recognize veterinary students with an interest in aquatic animal health and provide guidance to them during their veterinary studies to help them develop a knowledge base in this specialty.

Aquatic animal medicine is a rapidly expanding specialty of veterinary medicine within the American College of Zoological Medicine (ACZM). Aquatic animal medicine emerged as a veterinary discipline in 1968 when the International Association for Aquatic Animal Medicine had its organizational meeting in Menlo Park, California. Since then the discipline has expanded considerably and today includes aspects of food supply veterinary medicine through aquaculture practice, zoological medicine with aquatic display animals, companion animal and wildlife medicine. Some training in aquatic animal medicine has been available to veterinary students at the University of Florida since the College of Veterinary Medicine accepted its first class in 1976. The program has experienced significant growth since 2000 when programs in marine mammal health, aquaculture and fish health were merged into a comprehensive aquatic animal health program. The certificate program described here is a broad educational program that gives veterinary students a unique opportunity to nurture their interest in this exciting and diverse field. This certificate program is the first of its kind, and faculty members are anxious to work with motivated students to help them meet their career goals.

Students who successfully complete this program will receive a certificate that documents their concentrated training in aquatic animal health during their DVM curriculum. This certificate will identify the newly graduated veterinarian as an employment prospect for an entry level position in aquaculture or a veterinary practitioner able to provide basic medical care to aquatic animals as part of a companion animal practice. Post-DVM training may include continued graduate education working towards a master’s degree or a PhD, internships, or specialized clinical training in zoological medicine. Guidance from faculty can help veterinary students clarify career goals and pursue appropriate paths to achieve these goals.

The successful student in this program will be required to complete a total of 15 credits, which includes 7 credit hours of a core curriculum in aquatic animal health:

- Diseases of Warm Water Fish (VEM 5374, 2 credit hours)
- Sea Vet Clinical Training (VME 5378, 3 credit hours)
- An externship (VEM 5892, 2 credit hours) or research project (VEM 5991, 2 credit hours) approved by program faculty

The student will be assigned a mentor from the aquatic animal health program faculty who will work with the student to select the elective courses most appropriate given the student’s interests and career goals. Students who enter the veterinary program with undergraduate or graduate course work relevant to aquatic animal health may petition the faculty for up to 4 credits towards their certificate from some of their previous work. They may do so by submitting a formal letter to our program education committee, describing in detail the related work, how it pertains to aquatic animal health and why these credits are needed to supplement course credits currently available through the program.
To participate in the aquatic animal health certificate program, veterinary students must be in good academic standing and maintain a 3.0 GPA in the veterinary curriculum. If a student is placed on academic probation, his or her ability to participate in this program will be curtailed until the period of academic probation has been completed in a satisfactory manner. Applications for admission to the certificate program will be accepted no earlier than the spring semester of your freshman year in vet school, once fall grades of the previous semester have been released.

The Core Curriculum in Aquatic Animal Health

The core curriculum consists of entry level courses in fish and marine mammal medicine. These are Diseases of Warm Water Fish (VEM 5374, 2 credit hours) offered during the summer A term of even years and Sea Vet Clinical Training (VEM 5378, 3 credit hours) offered summer A each year. Students who enter the College of Veterinary Medicine as freshman in the fall of an odd year will be able to take these courses at the end of their freshman year. Students that enter the program in the fall of even years may take Diseases of Warmwater Fish the summer prior to entering the veterinary curriculum. Additional credit may be granted for similar courses offered at other institutions as substitutes. These include Aquavet (University of Pennsylvania and Cornell University), AQUAMED (Louisiana State University) and others. Program faculty can guide students in identifying course work that will fulfill this core requirement. In addition to this core course work, students will be expected to complete an externship (VEM 5892, 2 credit hours) or research project (VEM 5991, 2 credit hours) approved by the aquatic animal health faculty. An example template for completing course work is provided below.

Descriptions of Core Courses

- **Diseases of Warmwater Fish** (VEM 5374, 2 credit, letter grade) Diagnosis and management of diseases of warm water fish. Emphasis on ornamental and display fish production with consideration of food and game fish, and fish health management within public aquaria. The course is intended for students in veterinary medicine and related disciplines as well as graduate veterinarians, aquaculturists, professional biologists and aquarists. It is excellent preparation for the American College of Zoological Medicine Day 1 examination in aquatic animal medicine.

- **SeaVet Clinical Training** (VEM 5378, 3 credit, pass/fail) A training program in marine mammal science and medicine. The curriculum will emphasize species native to Florida such as the manatee and small cetaceans. A segment on sea turtles will also be included. The course is intended to serve as an introduction to aquatic animal medicine, clinical techniques, and captive husbandry. Common health concerns of both free-ranging and captive populations will be discussed with emphasis on management and disease prevention. The course is intended for veterinary students and veterinarians with an interest in marine mammal medicine.

- **Individualized Investigation** (VEM 5991, 2 credit, letter grade) Students individually prepare an oral and written report on an aquatic animal health related research or clinical topic.

- **Externships** (VEM 5892, 2 credit, Pass/Fail; **max 6 credits**) Students spend two weeks at an approved aquatic animal facility.

Note that completing a research project (VEM 5991), publishing it and presenting it at a scientific meeting is strongly recommended for those students who may want to pursue a career in the zoo and public aquarium industry.

Certificate Timeline

Most of the below listed courses can be taken either before, during or after veterinary school, so there is plenty of flexibility in how the requirements can be fulfilled. For those students interested in completing all of the requirements during a typical 4 year professional veterinary school time line and who would like to receive the certificate by graduation, please see the example charts below. The opportunities to take the Diseases of Warm Water Fish varies depending upon when you start your freshmen year because the course is only offered in even years (2008, 2010 …). The advanced course, Advanced Fish Medicine, is only offered in odd years (2009, 2011 …).
### Example Time-Line for Students Entering the Veterinary Curriculum in Fall of an Odd Year

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### Example Time-Line for Students Entering the Veterinary Curriculum in Fall of an Even Year:

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### Elective Classes in Aquatic Animal Health

A broad range of elective course work is available from within the College of Veterinary Medicine as well as from other units on campus. The student and his or her mentor should work together to identify elective classes that are consistent with the student’s interests and career goals. A list of potential elective courses is provided below. Approval of aquatic animal health program faculty may be sought for relevant courses not on this list.
Descriptions of Potential Elective Classes

**Professional Level (on campus)**

Through the College of Veterinary Medicine we offer: the courses listed below as well as some new ones that are currently under development. Veterinary students would not normally be required to pay additional tuition to participate in these courses.

- **Advanced Fish Medicine** (VEM 5375, 2 credit, pass/fail) An advanced clinical techniques course that teaches advanced medical care of piscine patients. Prerequisites include Diseases of Warm Water Fish or equivalent or permission of instructor. Portions of this course will help prepare students for the aquatic animal section of the ACZM specialty board examination.

- **Marine Mammal Medicine** (VEM 5377, 1 credit, pass/fail) To educate students in the basic science, husbandry, medicine and surgery of marine mammals. To understand the classification of mammals, special husbandry issues and management of species including medicine surgery and anesthesia. Course coordinator – Dr. Mike Walsh.

- **Topics in Aquatic Animal Health** (VEM 5931, 1 credit, pass/fail; **max 3 credits**) Presentation/discussion by students of selected articles relating to aquatic animal health, including both vertebrates and invertebrates; plus a monthly one hour seminar. Spring and fall semesters every year, one hour a week.

**Professional Level (off campus)**

- **Externships** (VEM 5892, 2 credit, Pass/Fail; **max 6 credits**) Students spend 2-6 weeks at an approved aquatic animal facility. A list of approved externships is available on the College of Veterinary Medicine website. Approval of aquatic animal health faculty is required for the externship to count towards the certificate, and for students to apply for financial support from the aquatic animal health faculty.

- **Scientific Conferences** (certificate credit only, not for DVM credit) conference must be approved by the Aquatic Animal Health program education committee and include: International Association of Aquatic Animal Medicine (IAAAM), the Society for Marine Mammalogy Biennial Conference on the Biology of Marine Mammals, etc… You may receive 1 certificate credit for attendance to a conference and 2 certificate credits for an oral or poster presentation for no more than two conferences.

**Additional Courses**

Students may apply for certificate credit for courses they have taken as an undergraduate or graduate that may be relevant to aquatic animal health. Examples of undergraduate courses taught outside of the College of Veterinary Medicine which may be considered as electives towards the certificate in aquatic animal health:

- **Zoology**
  - **ZOO 4403C Field Problems in Marine Biology** **Credits: 4 to 6; Prereq: BSC 2011 and 2011L with a grade of at least C.** Survey of major marine taxa, systematics of local marine fauna and flora, with familiarization of the marine environment. Laboratory emphasizes field work and independent projects.

- **Wildlife Ecology and Conservation**
  - **WIS 4443C Wetland Wildlife Ecology** **Credits: 4; Prereq: WIS 3401.** Ecological principles of conservation and management of wildlife in wetland environments, including a survey of the structure and function of major wetland types.

- **Soil and Water Science**
  - **SOS 2007 The World of Water** **Credits: 3.** Course explores the full range of water issues including abundance and quality of water in the environment, water policy, and conflict.
  - **SOS 4307 Ecology of Waterborne Pathogens** **Credits: 3; Prereq: MCB 3020 or MCB 4203 or equivalent** Survival strategies, gene regulation and metabolism of waterborne pathogens. Methods for microbe detection and control.
- Fisheries and Aquatic Sciences
  - **FAS 2024 Global and Regional Perspectives in Fisheries** *Credits: 3*. Fish biology, ecology and habitats relevant to fisheries on both a global and regional (Florida) scale. Follows the fisheries occurring from cold, mountain rivers to the depths of the oceans, with special topics (e.g., artificial reefs, fisheries bycatch and aquaculture). Intended for non-science and science majors. (B)
  - **FAS 4202C Biology of Fishes** *Credits: 4; Prereq: BSC 2011 and BSC 2011L*. Course will focus on the general biology of fishes, with emphasis on trends in their evolution, integrative and sensory biology, physiology, feeding ecology, reproduction, growth, and population dynamics as they relate to fisheries.
  - **FAS 4305C Introduction to Fishery Science** *Credits: 3; Prereq: refer to the department*. Principles of fish management in freshwater and marine systems. Includes field and laboratory techniques for aquatic habitat and fishery resource assessment, aquaculture practices and consideration of contemporary issues pertinent to sport and commercial uses of renewable fisheries resources.
  - **FAS 4405C Principles of Aquaculture** *Credits: 4; Prereq: BSC 2011 and BSC 2011L*, or permission of instructor. Culture methods of fish and shellfish, species selection, biological and environmental principles, case histories and future trends.

- Veterinary Medicine
  - **VME 4906 Problems in Veterinary Science** *Credits: 1 to 3; Prereq: permission of instructor*. Studies and research, investigation of an approved aquatic animal health problem in the field of veterinary medicine. This may count as credits towards the Aquatic Animal Health Certificate if conducted with an appropriate faculty member and on a related topic.
  - **VME 4906 Introduction to Marine Wildlife** *Credits: 2; Prereq: permission of instructor*. To be offered Summer C annually, *all on-line, asynchronous*. This course is designed as an introduction to the natural history, anatomy, physiology and behavior of aquatic megavertebrates: whales and dolphins, seals and sea lions, manatees, sea turtles and crocodilians.
  - **VME 4906 Aquatic Animal Conservation Issues** *Credits: 2; Prereq: permission of instructor*. To be offered Fall annually, *all on-line, asynchronous*. The course introduces students to some of the controversial issues surrounding the conservation of aquatic animal species ranging from invertebrates to marine mammals, with some emphasis on marine mammals, but including sea turtles, fisheries and marine ecosystems.

**Graduate Level Courses at UF that May be Related to Aquatic Animal Health**

- Fisheries and Aquatic Sciences
  - **FAS 5203C—Biology of Fishes (4)** *Prereq: BSC 2011/2011L or consent of instructor*. Emphasis on trends in evolution, integrative and sensory biology, physiology, feeding ecology, reproduction, growth, and population dynamics as they relate to fisheries.
  - **FAS 5255C—Diseases of Warmwater Fish (3)** *Prereq: consent of instructor*. Intensive, 2-week course (80 contact hours) in methodology of diagnosis and treatment of parasitic, bacterial, viral, nutritional, and environmental diseases of warmwater food fish and aquarium species. Offered summer term. **Note** This is the graduate student course number and name for the Diseases of Warmwater Fish VEM 5374 core requirement.
  - **FAS 5265—Reproductive Biology of Fish and Shell Fish (3)** *Prereq: courses in ecology and biochemistry, or consent of the instructor*. Ecological, behavioral, and physiological control mechanisms/models of reproduction, and how they may be manipulated in fisheries and aquaculture. Offered spring semester.
  - **FAS 5276C—Field Ecology of Aquatic Organisms (4)** *Prereq: FAS 4305C or consent of instructor*. Understanding principles of fish and shellfish ecology through field studies. Intensive study in lakes, rivers, and coastal marshes to gain understanding of how fish and shellfish interact with their environment. Extensive field trips required. Offered summer semester.
FAS 5335C—Applied Fisheries Statistics (4) Prereq: FAS 5276C or consent of instructor. Population sampling and estimation, statistical assumptions and robustness, mark-recapture, growth, and empirical modeling of populations. Offered fall semester of even-numbered years.

FAS 5901—Aquatic Research and Science (2) General philosophical foundations of science and specific critiques and perspectives found in ecology and aquatic sciences. Offered spring semester of even-numbered years.


FAS 6337C—Fish Population Dynamics (4) Prereq: STA 6166. Analysis of fish populations for management purposes. Methods for estimating population parameters (e.g., growth, recruitment, and mortality. Use of population parameters and computer models to predict yield and catch composition, and bioenergetics approaches for fisheries management problems. Offered spring semester of odd-numbered years.

FAS 6355C—Fisheries Management (4) Prereq: FAS 5276C or consent of instructor. Integration of scientific, social, political, and legal factors in fisheries management. Offered fall semester of odd-numbered years.

Soil and Water Science

CWR 6537—Contaminant Subsurface Hydrology (3) Prereq: MAP 2302 or 4341 or equivalent; CGS 2420 or equivalent; SOS 4602C or ABE 6252 or CWR 5125 or 5127 or equivalent; or EES 6208 or equivalent. Physical-chemical-biological concepts and modeling of retention and transport of water and solutes in unsaturated and saturated media. Applications of environmental aspects of soil and groundwater contamination emphasized.

SOS 5242—Wetlands and Water Quality (3) Prereq: CHM 2040. Introduction to natural and constructed wetland ecosystems with emphasis on problems associated with eutrophication and water quality. Hydrology, soils, and biogeochemistry. Also offered as distance education course.


SOS 6448—Biogeochemistry of Wetlands (3) Biogeochemical cycles of carbon, nitrogen, phosphorus, sulfur, and redox cations in wetland soils and sediments, as related to their agronomic, ecological, and environmental significance. Also offered as distance education course.

Veterinary Medicine

VME 6008—Care of Aquatic Megavertebrates (3) Prereq: permission of instructor. Care of Florida megavertebrates including dolphins, other cetaceans, manatees, and sea turtles using lectures, tours, and hands-on experience. **Note** This is the graduate student course number and name for the SeaVet VEM 5378 core requirement.

VME 6938—Topics in Aquatic Animal Health (1; max 3) Presentation/discussion by students of selected articles relating to aquatic animal health, including vertebrates and invertebrates; plus a monthly one hour seminar. Spring and fall semesters every year, one hour a week.

VME 6934 – Aquatic Animal Conservation Issues (2) - to be offered Fall annually, all on-line, asynchronous. The goals of this course are to introduce students to some of the controversial issues surrounding the conservation of aquatic animal species ranging from invertebrates to marine mammals, with some emphasis on marine mammals, but including sea turtles, fisheries and marine ecosystems. Format includes heavy reading, discussion, homework assignments, review of a journal article, and a short grant proposal and review.

VME 6934 – Introduction to Marine Wildlife (2) – to be offered Summer C term annually, all on-line, asynchronous. This on-line course will provide an introduction to marine mammals, sea turtles and
alligators. It will cover aspects of natural history, behavior, anatomy, physiology, management and research.

- **Wildlife Ecology and Conservation**
  - **WIS 5155C—Natural History of Amphibians and Reptiles (4)** *Prereq: WIS 3401 or ZOO 2303C.* Systematics, morphology, biogeography, life history patterns, ecology, and conservation of caecilians, salamanders, frogs, crocodilians, turtles, lizards, and snakes. Weekend field trips required. Offered spring semester of odd-numbered years.
  - **WIS 5323C—Impact of Diseases on Wildlife Population (3)** *Prereq: WIS 3401 or equivalent.* Diseases of wildlife, with emphasis on their impact on avian and mammalian populations of North America.
  - **WIS 6444—Advanced Wetlands Ecology (4)** *Prereq: WIS 4443, SOS 4242, EES 6308C, or consent of instructor.* Examination of geology, hydrology, chemistry, flora, fauna, and ecology of major wetland systems in North America.

- **Zoology**
  - **PCB 5307C—Limnology (4)** *Prereq: PCB 4044C, CHM 2046.* Biological, chemical, and physical dynamics of inland waters.
  - **PCB 6496C—Stream Ecology (4)** *Prereq: ENY 3005C, PCB 4044C or 3043C, CHM 2046, PHY 2054.* Physical,
  - **PCB 6815—Hormone Regulation of Invertebrate Behavior (3)** Survey and analysis of invertebrate behaviors regulated by hormones. Invertebrates considered include arthropods, coelenterates, helminths, and molluscs.
  - **ZOO 6406—Biology of Sea Turtles (3)** All aspects of biology of sea turtles and how their biology affects their conservation.
  - **ZOO 6456C—Ichthyology (4)** *Prereq: ZOO 2203C.*
  - **ZOO 6931—Seminar in Marine Turtle Biology (1-2; max: 5)** *Prereq: permission of instructor.* Advanced topics in biology and conservation of marine turtles.

Other courses may be appropriate and students are encouraged to discuss their academic background and professional goals with Aquatic Animal Health faculty when selecting electives for this certificate program.

For those students that may be unsure if they want to pursue this certificate, the following course is available as an introductory course, however, there is significant overlap with the core requirements and can therefore not be included in the credits that count towards the certificate:

- **Introduction to Aquatic Animal Health** *(VEM 5810, 2 credit, Spring, letter grade).* Basic medical biology of aquatic animal medicine. Including anesthetizing fish, venipuncture of fish, alligators, sea turtles, sharks, dolphins, and other aquatic species. **Please note that this class is not for students who have completed Diseases of Warm Water Fish and Sea Vet I and as such, cannot be applied toward the aquatic animal health certificate.** It is an excellent elective for those students who want some exposure to this field but do not want to pursue the certificate program.

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<tr>
<th>Certificate Program Faculty and Staff Contact Information</th>
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<tbody>
<tr>
<td>Dr. Iske V. Larkin</td>
</tr>
<tr>
<td>Education Coordinator</td>
</tr>
<tr>
<td><a href="mailto:IVLarkin@ufl.edu">IVLarkin@ufl.edu</a></td>
</tr>
<tr>
<td>Phone: 352-294-4096</td>
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<tr>
<td>Cell: 352-494-1742</td>
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<td>Fax: 352-392-8289</td>
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<tr>
<td>Dr. Ruth Francis-Floyd</td>
</tr>
<tr>
<td>Director of Aquatic Animal Health Program</td>
</tr>
<tr>
<td><a href="mailto:RFFloyd@ufl.edu">RFFloyd@ufl.edu</a></td>
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<tr>
<td>Office: 352-294-4197</td>
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<tr>
<td>Cell: 352-745-8295</td>
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Certificate in Food Animal Veterinary Medicine

The need for well-trained veterinarians in the area of food supply veterinary medicine is critical at the local, state, and national level. To encourage the development of students capable of providing professional service to the area of food animal medicine, a Certificate in Food Animal Veterinary Medicine (FAVM) is offered. The program is administered by the Food Animal Reproduction and Medicine Service in the Department of Large Animal Clinical Sciences. Students participating in the certificate program are mentored through didactic, clinical and extracurricular activities that provide a strong entry level training in food supply veterinary medicine.

Students from all backgrounds and experience levels are encouraged to participate. This is an opportunity for students to fill in experiential deficits and provide early curricular exposure to FAVM. Students with rural backgrounds that have had experience with food producing animals are particularly encouraged to participate. Students participating in other College programs, such as the Masters of Public Health and (or) the Certificate in International Veterinary Medicine program may find achievement of this certificate to be of additional benefit in their professional development.

Students who successfully complete this program will receive a certificate that documents their directed training in FAVM. The certificate will identify the new graduate veterinarian as capable and ready for an entry level position in a food animal practice or a food systems profession. The certificate will provide students an edge in employment readiness as a result of their dedication, work ethic and commitment to the certification process. They will be better prepared to provide leadership in the area of food systems veterinary medicine. This process will also prepare the way for specialty training in an internship and (or) residency program and (or) advanced training in a graduate education (MS, PhD) program. Faculty mentors will play an important role in helping students clarify and pursue their career goals and set the path for their completion of certificate requirements.

Extracurricular Activities

The extracurricular experiences encourage early exposure to FAVM. This is accomplished by participation in the Food Animal Club within the College. Students are expected to participate in and provide a leadership role to this student organization. Weekend wet labs coordinated by the student club and the faculty mentors provide hands-on animal experience, discussion of food animal topics and, very importantly, contact with others of similar interest, i.e., students, food animal residents, interns and faculty mentors. Students also will become members of one or more of the food animal professional associations, i.e., the American Association of Bovine Practitioners (AABP), or the Society for Theriogenology (SFT), Academy of Veterinary Consultants (ACV). Both associations strongly encourage student development within their respective disciplines. Within this support structure, students will:

- Observe the benefits of a career in FAVM with an emphasis on how careers in this area provide meaningful work of importance to the nation and society that allows them to fully use their veterinary education.
- Recognize the varied career opportunities of veterinarians involved in FAVM.
- Observe how their veterinary medical knowledge can be applied to the benefit of a well-educated clientele, their population of animals and to the benefit of the consuming public.
- Participate in seminars, tutorials, and experiences that will permit the new graduate veterinarian to function in and establish a food animal practice.
- Be educated in the proper handling of and work with large animals to overcome concerns about the physical aspects of a career in FAVM.
- Be provided courses during the first years of the veterinary medical curriculum that cover the basic tenets of production animal medicine to provide early exposure for students who lack this experience.
Food Animal Club Wet Labs

Weekend wet labs are organized through the fall and spring of the each year in cooperation with the Food Animal Club and its faculty coordinator. Wet lab instruction is provided by food animal house officers and faculty mentors. The labs provide instruction in bovine palpation, toxic plants, small ruminants, necropsy/pathology, dehorning, nutrition, ultrasound utilization, embryo transfer, foot care, nursery pig care, breeding soundness evaluation of the bull, artificial insemination collection center (tour), grazing dairies, euthanasia, and other timely topics. Students receiving ‘certificate’ credit for participation in wet labs are expected to earn 2 credits during the 4 years of professional training. Attendance at 8 labs is equal to 0.5 credits. It is suggested that those participating in the certificate program earn one certificate credit in their first year and the remaining credit over the next 3 years, including a half credit (8 labs) in their 4th year.

Individual Investigation (VEM 5991)

An important part of a student's academic and scientific development is the curiosity and critical evaluation associated with pondering a research question and developing and executing a research study. Students will carry out an individual investigation under the supervision of a food animal clinician or an approved scientific mentor. The role of the mentor is crucial in helping to identify and develop a project that will help the student develop analytical skills and reach professional goals. The research will be conducted with a focus on addressing a food supply veterinary medicine question/problem. The study will be hypothesis driven, with specific objectives defined and evaluated. At the study's conclusion, the findings will be presented in an appropriate forum, i.e., Alpha Zeta Research Emphasis Day, AABP or SFT student presentations, and publication of results will be encouraged.

Species Emphasis and Externships

As students prepare to enter clinics, they will select a Food Animal/Large Animal track emphasis. As a result, their clinical assignments will permit early participation in the food animal clinical rotation and subsequent elective rotations. Further, students will be readied early in clinical experience to participate in externships and receive external mentoring at locations that will provide strong and supportive opportunities under the guidance of practitioners and their faculty mentors. Upon return from each of at least 2 externships, the student will prepare a written report of the experience. Students will be given an appropriate forum to share their experiences in presentation form with other students.

Faculty Mentors

Faculty mentors are an important component of the certification process. Mentors will also act as student advisors to the certificate-seeking student. The mentor will provide guidance in attaining the best curricular and extracurricular experiences possible during the professional course. The mentor may provide direction with the individual investigation and externship experiences. They will also work with students to acquire funding for externships through established professional organization sources (AABP, ARV, SFT). In some cases, employment or stipends may be available for extended summer externships. Current faculty mentors include, but are not limited to, Dr. G. Arthur Donovan, DVM, MS, Klibs Galvao DVM, MPVM, PhD, Dr. Jorge Hernandez, DVM, MPVM, PhD, Fiona Maunsell BVSc, PhD, DACVIM, Dr. D. Owen Rae, DVM, MPVM and Dr. Carlos A. Risco, DVM, DACT.
Core and Didactic Curriculum

Students will be expected to demonstrate enthusiastic, leadership roles in the core, required food animal didactic and clinical courses, and additionally, will participate in the elective food animal didactic and clinical courses offered by the College. These core and elective courses are listed by name and by description below. Additional elective courses may be approved by certificate administrators. These may include CVM graduate courses or didactic courses in other Colleges, i.e. ruminant nutrition, ag-economics, HACCP systems.

- **Core Didactic Curriculum**
  - VEM 5201 Veterinary Clinical Techniques and Physical Diagnosis
  - VEM 5278 Theriogenology
  - VEM 5503 Veterinary Epidemiology
  - VEM 5504 Veterinary Preventive and Production Medicine

- **Core Clinical Rotation**
  - VEM 5735 Core Food Animal Reproduction and Medicine Service Clerkship (FARMS)

- **Required, Elective Courses (Students are required to participate in several courses)**
  - VEM 5277 Bovine Reproduction
  - VEM 5352 Dairy Production Medicine
  - VEM 5355 Ruminant Medicine **
  - VEM 5501 Clinical Epidemiology
  - VEM 5530 Advanced Beef Practice
  - VEM 5991 Individualized Investigation **

- **Required, Clinical Courses**
  - VEM 5835 Advanced Food Animal Reproduction and Medicine Service Clerkship (FARMS) or
  - VEM 5836 Food Animal Production Medicine Clerkship

**To earn the certificate in FAVM a student must:**

- Be enrolled as a DVM student and in good academic and professional standing.
- To participate in the FAVM certificate program veterinary students are expected to maintain good academic standing. If a student is placed on academic probation, his or her ability to participate in this program will be interrupted until academic probation is resolved in a satisfactory manner.
- Complete 16 credit hours of approved, elective food animal academic course work.
- Select a food animal/large animal track emphasis for clinical and didactic course work.
- Show a consistent, four-year participation in FAVM program functions and activities.
- Identify a faculty mentor who will provide guidance through the elective course work, individual investigation and externships.
### Administration

Oversight of academic credits earned by student participants will be administered by the Associate Dean of Students and Instruction. The tracking of certificate program elements and student progress therein will be supervised and administered by the Food Animal Reproduction and Medicine Service, i.e., the service chief and faculty mentors. The certificate will be awarded at the time the DVM degree is awarded. For further information, please contact the Food Animal Reproduction and Medicine Service at 352-294-4313.

### Certificate in International Veterinary Medicine

Supervision and oversight of academic credits earned by enrolled students will be administered by Dr. Paul Gibbs. International clinical, research, and industry or government-oriented externships will be developed and overseen by Dr. Jorge Hernandez, professor of epidemiology in the Department of Large Animal Clinical Sciences and Director of the Office of International Programs. Students who are not in good academic or professional standing are unable to participate in international programs offered by the Office of International Programs. Students in poor academic or professional standing may however be able to continue coursework at the College of Veterinary Medicine during their probation period. These students will be given an opportunity to reapply previously earned credits for certificate requirements once returning to good academic and professional standing.

In order to receive a certificate in international veterinary medicine, students must meet the requirements for approved academic coursework as well as the foreign language proficiency requirements:

- **Approved academic coursework consists of required and elective courses:**
  - **Required courses – 8 semester credits**
    - VEM 5931 Topics in Veterinary Medicine (2 credits). Students must complete a minimum of 2 semester credits (maximum 3 credits for certificate). A maximum of 2 credits of this educational experience will be awarded toward the DVM degree
    - VEM 5904 Independent Study (2 credits). The objective of this course is to expand the student’s knowledge of the geography, history, cultural, socio-economic and political aspects of the country where the student will conduct her/his international externship – as part of the requirements to complete the Certificate in International Veterinary Medicine. Knowing the cultural aspects of the society of interest will help the student (a) communicate more effectively with local people on a day-to-day basis, (b) have a better understanding of the

### Approved Academic Course work and Time Table:

<table>
<thead>
<tr>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
<th>4th Year</th>
<th>DVM Certificate</th>
</tr>
</thead>
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<td>F</td>
<td>Sp</td>
<td>Su</td>
<td>F</td>
</tr>
<tr>
<td>FA Club Wet Labs</td>
<td>0.5</td>
<td>R</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>VEM 5991- Ind. Investigation</td>
<td>2</td>
<td>R</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>VEM 5277- Reproduction</td>
<td>1</td>
<td>R</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>VEM 5352- Dairy Prod Med</td>
<td>1</td>
<td>R</td>
<td>E</td>
<td>E</td>
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<tr>
<td>VEM 5530- Beef Prod Med</td>
<td>1</td>
<td>R</td>
<td>E</td>
<td>E</td>
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<tr>
<td>VEM 5555- Rum Internal Med</td>
<td>1</td>
<td>R</td>
<td>E</td>
<td>E</td>
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<tr>
<td>VEM 5501- Epidemiology</td>
<td>1</td>
<td>R</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>VEM 5506- Intern'l Med Seminar</td>
<td>1</td>
<td>R</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>VEM 5835- FARMS Clerkship</td>
<td>2</td>
<td>R</td>
<td>E</td>
<td>E</td>
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<tr>
<td>VEM 5836- Special FA Elective</td>
<td>2</td>
<td>R</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>*Other approved courses</td>
<td>E</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Total credits</td>
<td>18</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
</tbody>
</table>

R=Required, E=Elective
*Cornell Summer Dairy Institute, Master Hoof Care Program, Spanish for Veterinarians
**16 labs = 1 credit; AABP, SFT, AASRP, AVC, FAVMC Conferences = 1-5 labs;
  2 credits, suggested 1 first year, do 0.5 senior year
***Competitive funding is available through AABP, ARV
dimension of local animal, public, or environmental health problems, (c) have a better appreciation of the impact of her/his education or research project on that society. The student is responsible to conduct a literature review including at least 16 topics relevant to the country of interest and course objective. For example: (1) geography (2) history (3) demography (4) political system (5) justice system (6) religion (7) economy (8) natural resources (9) transportation (10) telecommunications (11) public health (12) animal health, (13) environmental health (14) education (15) veterinary medicine education (16) social issues: women (17) men (18) teenagers (19) children (20) immigration (21) AIDS (22) poverty (23) animal control (24) animal welfare (25) historic or current events linked to the US (26) US embassy (27) other topics identified by the student and faculty supervisor as relevant. The student meets with the supervisor weekly or bi-weekly for guidance and assistance. The student is required to document her/his literature review on 12+ page report (typed, single-spaced). In addition, as part of the certificate requirement (seminar presentation with results of her/his international project), the student’s seminar presentation shall include relevant socio-economic and political aspects of the country where the international project was held.

- VEM 5893 International Externship (4 credits). Students must spend 4 weeks participating in research or externships overseas. If students pursue externship after the start of core clerkships, 2 credits towards DVM degree may be obtained. Certificate credit can be acquired at any point during the 4 years of the DVM curriculum.

  - Elective courses – 7 semester credits
    - A variety of approved elective courses exists, and these courses are taught through several UF colleges. Course content includes knowledge of anthropology, business, economics, leadership, and communication skills. Six of the elective courses must be taken outside of the College of Veterinary Medicine.

- Foreign language proficiency consists of elementary conversational ability. Demonstrated proficiency may be achieved by:
  - Obtaining an acceptable SAT II foreign language examination score:
    - French > 510
    - German > 560
    - Latin > 530
    - Spanish > 420
  - Successfully completing two semesters of sequential university taught foreign language
  - Successfully completing two sequential college-sponsored veterinary conversational Spanish courses, Spanish for Veterinarians I and II

**Certificate in Shelter Medicine**

Students at the University of Florida have the opportunity to earn a certificate in shelter medicine, a credential that documents their intensive study and expertise in this emerging area of veterinary medicine.

Nationally, there is a shortage of veterinarians adequately trained in the clinical, managerial, and legal issues in shelter medicine. Similarly, there is a shortage of veterinarians skilled in high-quality high-volume spay/neuter, which is a skill that is considered to be an essential component for reducing the number of unwanted pets. This is a transitional time for the animal welfare field as growing demand for animal-friendly solutions is challenging traditional sheltering paradigms, and veterinarians are needed to lead this transition.

The Shelter Medicine Certificate Program offers a broad range of training opportunities in this emerging field of specialization. Certificate students will develop strong skills in companion animal group health and sterilization. Students exposed to the sheltering system and the problems of animal homelessness first-hand will graduate with a clear understanding of the urgency of the problem and how they are positioned as veterinary professionals to provide key leadership to benefit shelters. Thus, even those students who do not elect to pursue a
career in shelter medicine are likely to be supportive of their colleagues that do or to help in other ways through their own private practices.

The Certificate in Shelter Medicine will expose students to a cross-section of opportunities in the field, including veterinary care of sheltered animals, animal disaster management, disease outbreak intervention, cruelty investigation and forensics, shelter animal behavior and welfare, high-quality high-volume sterilization surgery, and research in shelter medicine. A Special Projects elective offers the opportunity for mentored in-depth participation in an area of interest related to shelter medicine, such as working with a shelter to perform a shelter population management analysis, the creation and implementation of shelter medicine protocols, or directed study in a topic of importance in shelter medicine. The certificate will identify students who have completed an intensive training program in this field, providing a valuable credential for students seeking employment in animal sheltering or the pursuit of residency training.

The certificate program includes 8 units of required courses, clerkships, and externships and 7 units of electives selected from 12 units of elective offerings. All required and elective credits also fulfill credits toward the DVM degree with the exception of 1 unit of elective credit for attending shelter medicine-related continuing education, which does not count toward the degree. Students are required to join the Association of Shelter Veterinarians and to enroll in the listserv where shelter medicine issues are discussed. Student membership in ASV is $5/year. Students must also sign up for the ASPCA Shelter’s Edge blog. Students are also required to read and understand the Association of Shelter Veterinarians Guidelines for Standards of Care in Animal Shelters.

Certificate course offerings span all four years of the curriculum and are offered at least once each year. Students must enroll in the certificate program by the end of the junior year, but are encouraged to enroll as soon as they identify interest in the program. A faculty advisor from the Shelter Medicine Program will be assigned for each enrolled student. The Shelter Medicine program will maintain a database of each student’s progress and will report completed certificates to the Office of Instruction. Students will receive their certificates during the graduation ceremony.

Certificate programs are unique to the University of Florida. The Certificate in Shelter Medicine is the fourth such offering, joining other intensive programs in International Veterinary Medicine, Food Animal Medicine, and Aquatic Animal Health.

<table>
<thead>
<tr>
<th>Certificate Program Faculty Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Julie Levy</td>
</tr>
<tr>
<td>Certificate Program Director</td>
</tr>
<tr>
<td><a href="mailto:levyjk@ufl.edu">levyjk@ufl.edu</a></td>
</tr>
<tr>
<td>352-273-8722</td>
</tr>
<tr>
<td>V2-112</td>
</tr>
</tbody>
</table>

Application Procedures

Admission to the certificate in shelter medicine program is by application. Good academic standing is required for enrollment and to remain in the certificate program. In order to apply for the shelter medicine program, please complete the following tasks:

- Contact program coordinator, Olysha Magruder-McRae, to obtain the most recent version of the program description.
- Attend the enrollment orientation meeting offered annually each spring. Meet with certificate program director, Dr. Julie Levy, to develop a preliminary plan for coursework, externship selection, and projects (if applicable).
- Complete the program tracking form electronically and email to olysha@ufl.edu.
- Submit a photograph of yourself with an animal and a brief statement (100-200 words) about why you want to obtain a certificate in shelter medicine and what you hope this training will accomplish for you in your career to olysha@ufl.edu. These items will be posted on our website at www.ufsheltermedicine.com.
Enrollment Procedures
When the application procedures are complete and the application is approved, the next step is to complete the following enrollment procedures to enroll in the shelter medicine program:

- Certificate students are expected to remain engaged in Shelter Medicine activities throughout their veterinary training.
- Join the Association of Shelter Veterinarians listserv at www.sheltervet.org.
- Join the UF Student Chapter of the Association of Shelter Veterinarians and remain active in club activities.
- Join the ASPCA Shelter’s Edge blog at www.aspcapro.org/blog.

Certificate Completion

- Students enrolled in the certificate program will have first priority for enrollment in the consultation clerkship, stipends for externships, summer research projects, and scholarships for conference attendance, when available.
- Maintain good academic standing.
- Complete the required and elective courses and activities.
- Schedule a meeting with your certificate advisor each semester.
- Submit an updated version of the tracking form to your advisor and to sheltermedicine@vetmed.ufl.edu each semester.
- Submit a program evaluation at the time of completion.
- Notes on externship selection: Be aware that only certain externship programs have applied for and been approved for certificate credit; not all UFCVM-approved shelter externships apply toward the certificate. The shelter medicine externships must focus primarily on high-quality medical care of shelter animals whereas the spay/neuter externships must focus primarily on high-quality surgical care of animals. Details about the available externships are available on the Shelter Medicine website. If two shelter medicine externships are selected, one must be at an open-admission shelter and one must be at an adoption-guarantee shelter to assure the student obtains a broad and valuable educational experience.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course</th>
<th>Credit</th>
<th>Usually offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>VEM 5322</td>
<td>Introduction to Shelter</td>
<td>1</td>
<td>Required Spring Junior</td>
</tr>
<tr>
<td>VEM 5061</td>
<td>Introduction to Veterinary Disaster</td>
<td>1</td>
<td>Required Twice annually</td>
</tr>
<tr>
<td>VEM 5891</td>
<td>Shelter Animal Medicine Clerkship</td>
<td>2</td>
<td>Required Year-Round</td>
</tr>
<tr>
<td>VEM 5892</td>
<td>Shelter Medicine Externship</td>
<td>2</td>
<td>Required Variable</td>
</tr>
<tr>
<td>VEM 5892</td>
<td>Spay/Neuter Externship</td>
<td>2</td>
<td>Required Variable</td>
</tr>
<tr>
<td>No DVM</td>
<td>Association of Shelter Veterinarians L...</td>
<td>0</td>
<td>Required Year-round</td>
</tr>
<tr>
<td>No DVM</td>
<td>ASPCA Shelter’s Edge Blog</td>
<td>0</td>
<td>Required Year-round</td>
</tr>
<tr>
<td>No DVM</td>
<td>UF Student Chapter of the ASV</td>
<td>0</td>
<td>Required Year-round</td>
</tr>
<tr>
<td>No DVM</td>
<td>ASV Guidelines for Standards of Care in Animal Shelters</td>
<td>0</td>
<td>Required Year-round</td>
</tr>
<tr>
<td>VEM 5892</td>
<td>Shelter Medicine Externship #2</td>
<td>2</td>
<td>Elective Variable</td>
</tr>
<tr>
<td>VEM 5324</td>
<td>Veterinary Forensic Medicine</td>
<td>1</td>
<td>Elective Spring Junior</td>
</tr>
<tr>
<td>VEM 5320</td>
<td>Shelter Animal Behavior and</td>
<td>1</td>
<td>Elective Fall Senior</td>
</tr>
</tbody>
</table>
If you are interested in developing a more global perspective as a future veterinarian working in private or public practice in the United States or abroad, you should consider participating at one or several levels of international programs offered by the UF CVM Office of International Programs (OIP).

**Level 1 (UF Campus):**
- At this basic level, you can participate in our Seminar Series in International Veterinary Medicine. This is an elective course (VEM 5931; 1 credit; pass/fail; spring semester). All students (freshmen, sophomores, juniors, and seniors) can enroll for credit. The objective of this course is to enhance the international profile of the college by creating a forum for discussion of global health issues of veterinary importance.
- *Habla Español, un poquito?* Today, many pet owners and farm workers in Florida speak limited English, and we believe animal care can be enhanced with better communication.
  - The OIP offers the introductory course Spanish for Veterinarians. This course is offered during the fall semester (pass/fail; must attend 12 of 15 two-hour sessions). Classes are scheduled on Tuesdays, from 7.00 to 9.00pm in Deriso Building, Room 101. The instructor, Ms. Victoria Condor-Williams, native of Peru, has many years of experience teaching Spanish to health professionals.

**Level 2 (Abroad):**
- VEM 5506 International Veterinary Medicine
  - This elective course (1 credit) is offered to all students during spring/summer/fall semesters.
  - The main objective of this course is to develop an awareness of the impact that veterinary medicine has on the health and well-being of people and animals in foreign countries.
- VEM 5893 International Externship
  - This is offered to junior and senior students only.

**Level 3 (UF Campus and Abroad):**
- For the most demanding student in international education, the OIP offers the International Veterinary Medicine Certificate. This is a 15-credit program that can be completed parallel to the DVM curriculum over a four-year period. This level of international exposure is designed to challenge the veterinary student by participating in a veterinary problem in a foreign country in collaboration with local people, scholars, and institutions. This is an opportunity to apply state-of-the-art veterinary skills in combination with local knowledge.

**Certificate in International Veterinary Medicine**
- Approved Academic Coursework consists of required and elective courses:
  - Required Courses – 8 semester credits
- VEM 5931 Topics in Veterinary Medicine (2 credits). Students must complete a minimum of 2 semester credits (maximum 3 credits for certificate). A maximum of 2 credits of this educational experience will be awarded toward the DVM degree.
- VEM 5904 Independent Study (2 credits). The objective of this course is to expand the student’s knowledge of the geography, history, cultural, socio-economic and political aspects of the country where the student will conduct her/his international externship – as part of the requirements to complete the Certificate in International Veterinary Medicine. Knowing the cultural aspects of the society of interest will help the student (a) communicate more effectively with local people on a day-to-day basis, (b) have a better understanding of the dimension of local animal, public, or environmental health problems, (c) have a better appreciation of the impact of her/his education or research project on that society. The student is responsible to conduct a literature review including at least 16 topics relevant to the country of interest and course objective. For example: (1) geography (2) history (3) demography (4) political system (5) justice system (6) religion (7) economy (8) natural resources (9) transportation (10) telecommunications (11) public health (12) animal health, (13) environmental health (14) education (15) veterinary medicine education (16) social issues: women (17) men (18) teenagers (19) children (20) immigration (21) AIDS (22) poverty (23) animal control (24) animal welfare (25) historic or current events linked to the US (26) US embassy (27) other topics identified by the student and faculty supervisor as relevant. The student meets with the supervisor weekly or bi-weekly for guidance and assistance. The student is required to document her/his literature review on 12+ page report (typed, single-spaced). In addition, as part of the certificate requirement (seminar presentation with results of her/his international project), the student’s seminar presentation shall include relevant socio-economic and political aspects of the country where the international project was held.
- VEM 5893 International Externship (4 credits). Students must spend 4 weeks participating in research or externships overseas. If students pursue externship after the start of core clerkships, 2 credits towards DVM degree may be obtained. Certificate credit can be acquired at any point during the 4 years of the DVM curriculum.
  - Elective Courses – 7 semester credits.
    - A variety of approved elective courses exists, and they are taught through several UF colleges. Course content includes knowledge of anthropology, business, economics, leadership, and communication skills. Six of the elective courses must be taken outside of the College of Veterinary Medicine.
- Foreign Language Proficiency. Consists of elementary conversational ability. Demonstrated proficiency may be achieved by:
  - Obtaining an acceptable SAT II foreign language examination score: French >510, German >560; Latin >530; Spanish >420.
  - Successfully completing two semesters of sequential university taught foreign language.
  - Successfully completing two sequential college-sponsored veterinary conversational Spanish courses, Spanish for Veterinarians I and II.

**Program Supervision and Certificate Award Presentation**

Supervision and oversight of academic credits earned by enrolled students will be administered by Dr. Paul Gibbs. International clinical, research, and industry or government-oriented externships will be developed and overseen by Dr. Jorge Hernandez, professor of epidemiology in the Department of Large Animal Clinical Sciences and Director of the Office of International Programs. Students who are not in good academic or professional standing are not allowed to participate in international programs abroad offered by the OIP. However, students in poor academic or professional standing may be able to continue coursework at the UF CVM during their probation.
period. These students will be given an opportunity to reapply previously earned credits for certificate requirements once returning to good academic and professional standing.
VI. Student Services

Academic Advancement and Probation

The following information will be collected or computed by the associate dean for students and instruction for all students enrolled in the professional degree (DVM) program:

- Final course grades for all veterinary curriculum courses;
- Grade point average on veterinary curriculum courses;
- Evaluations by faculty in phase III of the curriculum on the subjective criteria
  - Clinical clerkship grades (including readiness to practice) for all veterinary students should be submitted to the associate dean for students and instruction upon completion of each clinical rotation; and
- Previous advancement and probation recommendations of the Academic Advancement Committee and actions of the associate dean.

Student performance will be evaluated by subjective and objective methods including examinations given by the various teaching units throughout the curriculum and subjective evaluations prepared by the members of the faculty. At the conclusion of each semester, students meeting the following criteria will be advanced to the next semester or to the degree candidacy as appropriate in the curriculum:

- Completing all required didactic courses and clerkship rotations to that point in the curriculum including elective coursework to achieve a minimum of 150 credits for advancement to degree candidacy with passing or satisfactory grades
- Achieving a 2.0 or greater semester GPA and maintaining a 2.0 or greater cumulative GPA
- Achieving satisfactory evaluations in “readiness to practice” on required and elective clerkship or externship rotations. Please note that the assessment of a student’s readiness to practice is evaluated in three areas:
  - Ability to make independent decisions;
  - Ability to transfer facts to actual clinical problem solving; and
  - Professional maturity.

  - Students may receive an unsatisfactory readiness to practice evaluation in one clerkship/externship rotation without penalty. A formal letter of warning from the associate dean for students and instruction will be sent to the student and the student’s faculty advisor indicating that should another unsatisfactory assessment be issued during any subsequent clerkship/externship, a meeting of the Academic Advancement Committee will immediately convene.

Satisfactory demonstration of professional attitudes considered important for successful performance in veterinary medicine includes, but is not limited to the following:

- Academic honesty;
- Interpersonal relations and communication skills;
- Behavior and conduct with animals, clients, faculty, students, and staff; and
  - Adherence to the provisions of the Veterinary Medical Practice Act of the state of Florida as set forth by the Department of Business and Professional Regulations
- Not currently on probation

The Academic Advancement Committee will review those students who do not meet the criteria stated above after each semester or more often when necessary. The committee will decide an action (continuation without probation, continuation with probation, non-advancement, or dismissal), and it will communicate the decision to the student.

Notification of Unsatisfactory Performance

After each semester (or more often when necessary), any student whose record indicates unsatisfactory performance based on the above list will be notified of the deficiencies by the Associate Dean for Students and Instruction prior to the Academic Advancement Committee’s review of the student’s performance. The student will
be given the opportunity to correct any clerical errors in their record or append explanations for reported unsatisfactory evaluation entered in their record.

**Academic Advancement Committee Review of Student Performance**

After each semester (or more often when necessary), the Academic Advancement Committee will review the academic performance of students displaying one or more of the following:

- Failure in any course in the veterinary curriculum
- Failure in any course in the veterinary curriculum that has not been rectified by successful completion for the prescribed plan for remediation
- GPA below 2.0 on veterinary courses taken to that time or on veterinary courses taken during the previous semester
- Two unsatisfactory evaluations on subjective criteria, including “readiness to practice.” As part of this review, the committee will contact the involved faculty member(s) to determine the rationale and basis for the unsatisfactory evaluation
- Currently on probation or required to fulfill a prescribed plan for reinstatement
- Repeatedly missing scheduled examinations

**Academic Advancement Committee Decisions**

The committee will decide an appropriate action for the student:

- Continuation without probation;
- Continuation with probation;
- Non-advancement; or
- Dismissal.

When the committee has decided on continuation with probation or non-advancement, the committee will also include a plan of action for the student to return to good academic standing within the degree program.

- Since grade authority rests solely with the instructor of the course, the initial phase for appeals for grade changes must be directed to the instructor. If the student is dissatisfied with the outcome, they may append explanations for unsatisfactory performance entered in their record. The Academic Advancement Committee will take this information into account when deciding a course of action, however, the committee may not initiate procedures that include course grade changes.
- In making its decision, the committee will consider the severity of the student’s academic problem, the effort required to correct the deficiencies or change the behavior and the probability, based on previous performances of the student, of successful correction of the deficiency. Consideration of the availability of resources (class space, tutors, etc.) must also be taken into account when formulating a plan to resolve academic deficiencies.
  - Course remediation
    - The committee may decide that a student be allowed to remediate a failed course(s), however, in all cases of remediation, a grade of D- will be used to replace the failing grade after successful completion of remediation. Should remediation be denied in cases of failed elective courses, the failing grade will remain on the transcript and no credit will be given.
  - Repeating a semester or year
    - The committee may decide that a student should repeat an entire semester or year based upon a failed course(s). In such instances, the grades obtained upon repeating the semester or year will supersede previously earned grades in calculating the student’s GPA within the College of Veterinary Medicine. In these cases, it should be noted the college GPA will be internally calculated and will differ from the GPA calculated by the Office of the Registrar at the University of Florida. The University of Florida has an official policy regarding repeated coursework and transcripts will contain all grades from all courses taken while enrolled as a student at the University of Florida.
Decisions that contain a plan for remediation will be specific in terms of the end-point for successful completion, including time limits and method of verification of completion.

When necessary in defining the plan for remediation, the committee will use experts in the area of the student’s deficiency.

Students with exceptional reasons for failing to successfully complete a course (e.g. illness or death in the family) should be given an incomplete grade for which the instructor will prescribe the procedure for fulfilling the course requirements. The Academic Advancement Committee will determine which reasons are considered exceptional to ensure uniform application of this provision.

The Academic Advancement Committee will make decisions and inform the student of the decision by mail, including the plan for remediation where appropriate. The student may appeal the committee’s decision by submitting a written request to the dean for review within 14 days after receiving written notification. The request should explain the student’s position and any possible justification for a different course of action. The decision of the dean is final on all matters involving academic performance or academic progress.

Advisement and Counseling

Each incoming freshman veterinary student is assigned to a pre-clinical faculty advisor. Advisement at this stage is intended to be primarily academic; however, depending on the rapport established, some students consult with their faculty advisor for non-academic reasons as well.

At the beginning of the third year, students are permitted to select a clinical faculty advisor with experience in the area of the student’s choice. Advisement at this time may entail selection and supervision of the senior project, career choices, etc., as well as academic advisement.

The Office for Students and Instruction and the associate dean for students are also available to all veterinary students for counseling on academic, financial or personal problems. When appropriate, referral can be made to other on-campus or off-campus resources such as marriage counselors, mental health clinics, etc.

Financial Aid

The College of Veterinary Medicine strives to assist students in securing financial assistance. However, it is not the responsibility of the college to finance your education; we can only assist. The Office for Student Financial Affairs and the Office for Students and Instruction require that students applying for financial aid complete the Free Application for Federal Student Aid (FAFSA) each year before any financial aid award can be confirmed.

The primary source of financial aid for veterinary students is Federal Direct Stafford Loans. Should you have questions pertaining to these loans, please contact Mr. Michael Menefee in the Office for Student Financial Affairs or Mr. Jonathan Orsini in the Office for Students and Instruction. Should you have questions pertaining to UFCVM scholarships, please contact Mr. Jonathan Orsini, at 352-294-4270 in room V1-100G in the Office for Students and Instruction.

Guidelines for Pregnant Veterinary Medical Students

The potential for injury during the education of veterinary students increases during pregnancy. Exposure to toxic drugs, infectious agents, inhalation anesthetics, radiation, and other agents present real hazards to unborn children, particularly during the first trimester of pregnancy. In addition to chemical, infectious, and radiation dangers, physical accidents incurred while working with animals may also lead to serious injuries for mother and child.

It is in the best interests of pregnant students to maintain regular contact with their physician and to take appropriate steps to minimize exposure to hazards inherent in veterinary medical education. Please remember that the university cannot fundamentally alter its established curriculum or academic program. While pregnancy is not generally considered a disability, pregnant students may wish to inform the associate dean for students as early as possible to facilitate communication and to take advantage of all available options.
Rights and Responsibilities

- It is recognized that pregnant students maintain their established student rights.
- Pregnant students are expected to complete each and every requirement of the veterinary curriculum. If the risks of completing certain components or specific assignments in the DVM curriculum are deemed unacceptable, pregnant students will develop, in consultation with and after approval by faculty, an alternate equivalent plan or schedule deemed acceptable by the University, the student, and their attending physician. Copies of all documents pertaining to revised assignments of pregnant students will be kept on file in the office of the Associate Dean for Students and Instruction.

Curriculum Concerns

- Laboratories
  - Formalin exposure in anatomy laboratories.
  - Anesthetic gas exposure in surgery laboratories.
- Clinical clerkships: long work hours, exposure to sometimes unruly small and large animals, exposure to toxic drugs, and exposure to infectious diseases.
  - Radiology clerkship
    - Exposure to x-rays
  - Pathology clerkship
    - Physical labor of lifting heavy animals, slippery floors, zoonotic diseases (e.g., toxoplasmosis, cryptosporidiosis, brucellosis, salmonella, etc.), exposure to formalin, exposure to DMSO
  - Rural animal medicine clerkship
    - Exposure to prostaglandins, parasiticides (i.e., organophosphates, etc.), infectious organisms (Cryptosporidia, Brucella, Salmonella, Chlamydia, etc.), environmental conditions of hot, humid, and sometimes dusty conditions with much standing and walking required, exposure to large and sometimes unruly animals.
  - Anesthesiology and surgery clerkships
    - Exposure to anesthetic gases.

Available Options

1. Students may opt to continue regular student enrollment with selected schedule and assignment changes. This option has risks, and it will likely delay completion of the DVM program. It is dependent upon multiple factors:
   - The student’s ability to participate in the revised educational program;
   - The ability of the college to make changes in the student’s schedule of clinical assignments in advance; and
   - Availability and willingness of classmates to exchange scheduled clerkship assignments with the pregnant student.

2. Students in good academic standing may submit a written request to withdraw from the DVM program for a period of time less than one academic year to the associate dean for students and instruction. Students who are allowed to withdraw may be readmitted upon application approved by the associate dean for students and instruction and permitted to graduate with a subsequent class. This option minimizes health hazards and risks associated with attempting to continue a veterinary medical education while maintaining a pregnancy.
Housing

University housing regulations do not apply to students in the professional College of Veterinary Medicine. However, students do have the option of applying for accommodations that the University of Florida offers to students. The Division of Housing of the University of Florida also maintains extensive listings of off-campus apartments, houses, rooming units, and mobile home units that are offered for rent to students, faculty, and staff. Inquiries about housing should be directed to the Department of Housing:

Housing & Residence Education  
Division of Student Affairs  
SW 13th Street & Museum Road  
PO Box 112100  
Gainesville, FL 32611-2100  
Phone: 352-392-2161  
Fax: 352-392-6819

Legal Name Changes

Name change documents are available in the Office for Students and Instruction. Two forms must be completed to make a name change with the University of Florida’s registrar’s office and the Office for Students and Instruction:

1. Name Change Request  
   • Send this form to the agency in which your legal name change is recorded. The agency in which your legal name change is recorded is responsible to mail the form back to the Office of the University Registrar

2. College of Veterinary Medicine Name Change form  
   • Return to:

   The Office for Students and Instruction  
   PO Box 100125  
   Gainesville, FL 32610-0125

Library

Students have access to the Health Center Library (in the Communicore building of the Health Center), which contains an extensive collection of books, journals, and audiovisual-auto tutorial units. Study space and photocopying equipment are available. A branch reading room of the Health Center Library is located in the Veterinary Academic Building (VAB) called the Education Center. The emphasis of its small collection of books, journals and audiovisuals is on current awareness and clinical sciences. The Education Center provides places to study that include study rooms and a quiet room.

Licensure and Accreditation Examinations

The practice of veterinary medicine is controlled by a central agency in each state. In Florida, it is the Florida Board of Veterinary Medicine, which is under the jurisdiction of the State Department of Professional Regulation. Practice acts vary, but most states rely on results of the National Veterinary Board Examination to determine which applicants are qualified to practice in their state. The Florida Department of Professional Regulation supervises the administration of National and State Board examinations, both of which are used in their licensing procedure.

Senior veterinary students are privileged to sit for both examinations during the early part of December and again in April. For further information, please contact:
Addresses of state boards and digests of State Veterinary Practice Acts can be found in the AVMA directory. Veterinary students must participate in a validation procedure that enables the practicing veterinarian to participate in state and federal disease control eradication programs and to issue health certificates. For further information, please contact:

Area Veterinarian-in-Charge, USDA
APHIS Veterinary Services
7022 NW 10 Place
Gainesville, FL 32605
Phone: 352-333-3120

Parking Regulations
Veterinary students operating automobiles, motorcycles, and mopeds on campus are subject to university regulations. Parking decals are available online through the Traffic and Parking Decal Office website. Inappropriate parking or parking on campus without a decal may result in a citation. It is in the best interest of the students to respond to parking citations immediately; procrastination will only result in continued penalties for tardy payment, problems with grade reports and future registration. All parking areas contingent to the College of Veterinary Medicine are under university regulations, including the parking lot at the VMTH.

Registration
The Office for Students and Instruction handles the registration for all veterinary students. In addition to the courses of the veterinary curriculum, veterinary students may enroll in courses outside the veterinary curriculum. The College of Veterinary Medicine requires all students who wish to enroll in courses outside of the veterinary curriculum to obtain approval from the Office for Students and Instruction.

Student Cell Phone Requirements
Beginning in 2013, students entering clinical rotations will be required to provide a personally owned mobile phone to use for communicating with faculty and staff. Please keep in mind the following when purchasing a phone:

- VetMed currently has an AT&T distributed antenna system, so AT&T is the preferred cell phone provider. Verizon and Sprint also seem to provide good coverage in the hospital. Other carriers may work, but students will be responsible for verifying that their reception is adequate in both hospitals.
- The mobile phone/smartphone selected should have at least a 3G wireless network. It must be capable of receiving and sending calls in the hospitals as well as accepting text messages and voicemail.
- If a student is changing plans within the next year, it would be advisable to choose a company that provides a window to return the phone. Many companies will allow the return of a phone within 30 days of purchase. This time will allow students to verify that the phone has adequate reception in the hospital.
- The college maintains a faculty/staff/student cell phone database. Students must provide their cell phone numbers for publication in the address book. A copy of the contacts database is available for download, but students will be responsible for managing their own contacts.
VII. Student Conduct

Academic Dishonesty

The College of Veterinary Medicine expects students to be honest in all their classwork. Therefore, students are required to commit themselves to academic honesty by signing the following statements as part of the admissions process:

I understand that the University of Florida expects its students to be honest in all of their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action, up to and including expulsion from the University of Florida.

Health Center Student Conduct Standards Committee

The Health Center Student Conduct Standards Committee is comprised of five faculty members and two student members from each of the Health Center colleges. Cases of academic dishonesty that occur in the health center colleges are referred by faculty member to the director of student judicial affairs who serves as advisor and nonvoting executive secretary to the committee. If, after consultation between the faculty members and the director of student judicial affairs, it is determined that a hearing is necessary to resolve the allegations against the student, a subcommittee is convened as follows: four faculty members and one student member from the college of the accused student and two faculty members and one student from another health center college. Five members of the committee, including at least one member from another college, must be present for a hearing.

Prior to the hearing, the student will be advised of rights and privileges under the code of student conduct by the director of student judicial affairs. After a hearing by the Health Center Student Conduct Standards Committee, if the student is adjudicated responsible, the committee will recommend one or more sanctions to the dean for student services, P202 Peabody Hall, who will take final action. Sanctions can range from reprimand and a grade reduction in the course to expulsion from the university (University of Florida Rule 6C1-4.0211).

Student Conduct Code

Veterinary students, as members of the university community, are subject to the university student conduct code as described in the University of Florida’s student guide. Violations of the conduct code that may result in expulsion or a lesser sanction include but are not limited to:

- Academic dishonesty;
- Furnishing false information to the university;
- Unauthorized use of or destruction of university property; and
- Disruption of the orderly operation of the university.

Cases of alleged academic dishonesty from veterinary students fall under jurisdiction of the Health Center Student Conduct Standards Committee.

Student Conduct Guidelines

Purpose: To serve as a reminder that students are now part of the veterinary medical profession and have a responsibility to show respect and consideration to both their colleagues and their instructors.

Interpersonal Interactions: Students are expected to respect one another and to be sensitive to differences in race, religion, ethnic origin, gender, sexual orientation, and disability present within the UF/CVM community.

Hygiene and Personal Grooming: Students are expected to come to class wearing clean clothes, to have an odor-free body, and to adhere to the student dress code.
Classroom Tardiness: Students are expected to be on time for class. In the rare case when extenuating circumstances make lateness unavoidable, students are expected to enter quietly from an interior door and take the closest available seat.

Classroom Conduct: Students are expected to treat all instructors with respect and courtesy and to attend to the classroom activity. Sign-up sheets for extracurricular activities should be passed around between lecture classes or posted in the labs. Students must be aware that talking and other noisy behavior are disruptive to the instructor and to other students during class, and students are expected to act accordingly.

Leaving Class Early: Students are expected to stay in class for the entire period except when unusual extenuating circumstances require them to leave early. In these cases, professional courtesy dictates that advance notice is given to the instructor.

Attending Class: Students are held responsible for all information and material given in class, and they will not receive individual instruction for missed classes except in documented cases of illness or other unusual extenuating circumstance.

Examinations: Individual students may not reschedule examinations except in the case of documented medical or family need or unusual extenuating circumstances. According to college policy, the decision to reschedule is the prerogative of the individual instructor. The Associate Dean for Students and Instruction is to be advised of each instance an examination is rescheduled.

Policy on Electronic Dissemination or Online Posting of Information Related to UF Veterinary Hospital Patients or Clients

All students, including UFCVM students, students from offshore veterinary schools, and visiting students, must recognize and respect the importance of maintaining the privacy and confidentiality of any information pertaining to patients or clients of the University of Florida veterinary hospitals (UFVH). In order to protect the privacy of our hospital clients and their pets, students are prohibited from disseminating any type of patient-related or client-related information to any individual(s) outside the UFVH, unless they are given prior written approval by the hospital chief of staff. Students should note that all client-related and patient-related information is the property of the UFVH and that posting of such information on social networking websites such as Facebook and Twitter is prohibited. Examples of restricted information include, but are not limited to, patient images or videos, patient records, information from or about referring veterinarians, and similar protected information. Violations of this policy are considered to be a serious infraction of UFCVM and UFVH policies and violators will be referred to the Academic Advancement Committee for investigation and appropriate disciplinary action.

Student Dress Code

When competing for professional and economic recognition, success is largely determined by public perception of our competence, self-confidence, professional pride, and caring attitude. These perceptions are often based on first impressions of appearance and communication skills. We present our knowledge, clinical competence, concern for the feelings of people and their animals, and general professionalism through the way we act, speak, write, and dress.

In order to ensure professionalism and to address health and safety issues, a dress code is enforced for all students involved in college activities (on campus and off campus). Please note that the dress code differs according to the activity. It is expected that all students wear:

- Professional clothing without rips or tears
- Trimmed, clean, and groomed hair (including beards and mustaches. Please avoid extreme hairstyles.
- Simple jewelry and piercings
- Tattoos should be covered by clothing when possible
• No strongly scented perfumes, colognes, and aftershaves
• Nametags
• No advertisements on clothing unless advertisements are affiliated with the college, university, organized veterinary medicine (e.g. SCAVMA), and/or class year
• No political or humorous messaged attached to clothing
• Footwear that is conservative and protective. Flip flops are unacceptable. Closed toe shoes are required when working with animals and in laboratories. Students working with large animals should wear hard-toed shoes.

**Exceptions to the Code**

• Dress code does not apply to sporting activities or to social and club events organized by the college.
• Students may arrive at the college in casual clothes and change into suitable clothing upon arrival.
• Provided the student does not intend to visit or be on duty in the large or small animal hospitals, the dress code does not apply to weekends or after hours (5:00 p.m. - 6:00 a.m.).
• Exception to the code may be made by instructors when activities requiring a different type of dress are necessary or appropriate.

Instructors have the authority to enforce the dress code. If the standard of dress is deemed unacceptable to the instructor, a student may be asked to meet the set guidelines before being allowed to participate further in classroom or clinic activities. Any absence due to non-conformance should be made up. Class officers and the student faculty communications committee are available to assist students in the interpretation of the dress code and will consult with the Associate Dean for Students and Instruction when necessary.

**Dress Code for Freshmen, Sophomore, Junior, and Senior Students in Class**

Students may select from the following dress options:

• **Men**
  - Clean and neat slacks, knee-length shorts, professional denim.
  - Dress shirt, polo, collared or button down shirt, professional collar-less shirt
  - Professional, solid color scrubs

• **Women**
  - Clean and neat slacks, dresses, knee-length shorts, professional denim
  - Dress shirts, polo, collared or button down shirts, blouses
  - Professional, solid color scrubs

• In cold weather, any sort of sweater or coat is acceptable except those bearing logos other than university/college/organized veterinary medicine affiliations.
• Footwear should be clean, neat, and appropriate to the dress style selected. Professional open toed shoes are permitted according to the activity. Flip flops are not permitted.

Clothing deemed unacceptable:

• Gym Attire, Spandex, Old T-Shirts, Gym Shorts, etc.
• Pajamas
• Low-cut tops
• Excessively short skirt or short length
• Garments made of transparent fabrics

**Dress Code for Students on Clinical Rotations and Laboratory/Field Situations**

Please note that the dress code does apply to weekends and after hours. If students are entering the small animal clinic at such times to provide treatment only, they are permitted to wear professional solid color scrubs.
Small Animal Hospital
- Women must wear clean and neat slacks, blouses or dresses.
  - Surgery scrubs, blue jeans, T-shirts, shorts, low-cut tops, excessively short skirt lengths, and garments made of transparent fabrics are unacceptable.
- Men must wear clean and neat slacks, dress shirts, ties, and socks.
  - Ties are not essential on non-receiving days; however, they are encouraged because of unplanned appearances in the clinic.
  - Surgery scrubs, blue jeans, t-shirts, and shorts are unacceptable.
- Footwear should be comfortable, protective as well as appropriate for the type of dress.
  - Sandals and open toe footwear are unacceptable.
- Protective white coats should be Dura Press polyester combed cotton poplin. White coats must be clean for receiving.
- Professional attire should be worn regardless of whether it is a receiving or non-receiving day.

Equine Hospital
- Students should wear khaki pants and uniform shirt with their name tag at all times. No jeans or shorts are permitted.
- Protective footwear, such as leather boots, is recommended. No sandals or tennis shoes are allowed. Crocs may be worn in the operating rooms, but not in the barn or recovery.
- Surgery scrubs will be worn in Large Animal Surgery only and should be covered by a lab coat between entrances into the surgical suite.

FARMS
- Students are expected to wear coveralls. A shirt may be worn underneath.
- Protective footwear
  - Washable leather or rubber boots must be available when recommended by clinician.
  - Rain and cold weather clothing may be worn when appropriate.

Anatomic Pathology
- Necropsy Facilities:
  - Surgery scrub suits will be worn when performing necropsies, and special rubber boots must be worn when entering the necropsy room. Scrub suits and rubber boots will be provided by the Anatomic Pathology service. They should be left behind in the Pathology locker rooms when exiting the necropsy facilities.
- Other (clean) Areas of Anatomic Pathology Section:
  - Dress code as applicable for the Small Animal Hospital

Externships
- The above dress code, as appropriate to the activity, will apply to students on externships. The practice or institution hosting the student may have a more stringent or specific dress code, which must be obeyed.
Student Grievance Procedure

The College of Veterinary Medicine is committed to a policy of treating all members of the college community fairly in regard to their personal and professional concerns. In order to ensure that students know what to do when they need to resolve a problem, the following procedure is provided (Reference FAC6C1-4.12):

1. A grievance is defined as dissatisfaction occurring when a student feels or thinks that any condition affecting him/her is unjust, inequitable or creates unnecessary hardship. Such grievances include, but are not limited to, the following:
   a. Academic problems (excluding all matters involving academic performance or progress; refer to section on Procedures for Implementing Advancement and Probation Rule);
   b. Mistreatment by any University employee; and
   c. Wrongful assessment and processing of various fees, records and registration errors, student employment and discrimination because of race, gender, sexual orientation or handicap.

2. The initial phase of the student grievance procedures requires a discussion between the student and the person(s) alleged to have caused the grievance. The meeting should be held within three class days after the student first becomes aware of the act or condition that is the basis for the grievance. If the student considers the response to this discussion to be unsatisfactory, the grievance should be put in writing and filed with the next level supervisor (department chairperson, chief of staff, or dean).

3. Any student who is not satisfied with the response after using the administrative channels outlined above should present the grievance in written form to the vice president for health affairs with a copy to the individual complained against. At this time, the student may choose to have the vice president decide the disposition of the grievance or the student may choose to have a fact-finding panel formed to investigate the case.
   a. The fact-finding panel will, within 10 calendar days, meet with parties involved and hear all sides of the situation. Within 15 calendar days after formation, it will prepare a written report for the vice president of the panel's findings as to the validity of the grievance.
   b. The vice president will render a written decision to the aggrieved party. The report will be made within five calendar days after the vice president reviews the case or receives the report of the fact-finding panel.

4. The president’s designee, which is the vice president for academic affairs, shall be the final appeal, but only after prescribed administrative channels and grievance procedures have been exhausted. The vice president for academic affairs shall review the matter and decide what action, if any, should be taken.

Healthcare and Insurance

All CVM veterinary students are required to have major medical health insurance. It is insufficient for veterinary students to seek care only through the Student Healthcare Center outpatient clinic. Insurance may be acquired through a family major medical policy, through a private insurance agency, or by purchasing the University of Florida student government sponsored Student Injury and Sickness Insurance Plan B. It is highly advisable that the insurance plan offer appropriate and comprehensive coverage in Gainesville and Alachua County.

Student Healthcare Center

The Student Health Care Center provides a variety of services, including primary medical care, health education, health screening programs and mental health consultation and counseling. It is housed in the Infirmary, which is located on the main campus. The student health fee, which is paid by registered students, covers many professional services, but it does not cover hospitalization, laboratory tests, x-rays, drugs, etc.

Neither the College nor the University carries medical insurance to cover student accidents. In light of the risks and hazards inherent in veterinary medical education and the potential for veterinary student accident and or injury, it is necessary for each student to be covered by some form of major medical health insurance. If a veterinary student is hurt or injured during the veterinary curriculum, the student needs insurance coverage for the expenses associated with any required medical care, including emergency care.
Student Participation on College Committees

Several college committees include students to increase student input into the decision making process. Students are unique resources for views and ideas which can improve the college. Each class elects two delegates to the Curriculum Committee. The dean will appoint one of these students as a full voting committee member. Each class elects two delegates to meet with the Student Faculty Communications Committee.

Student Organizations

Association of Reptilian and Amphibian Vets Student Chapter
Canine Club
Christian Veterinarian Fellowship
Food Animal Club
The Holistic and Integrative Veterinary Medicine Club
Lab Animal Club
Pathology Club
PAWS (Pets Are Wonderful Support)
Project HEAL (Health Extension and Learning)
Public Health and Service Club

SCAAEP (Student Chapter of the American Association of Equine Practitioners)
- SCAEP provides practical experiences with horses and exposes the veterinary student to proceedings of the AAEP. Meetings are held twice a month and include guest lecturers and wet labs. To join, contact an officer, the faculty advisor or a class representative for information on the next meeting

SCAAFP (Student Chapter of the American Association of Feline Practitioners)
SCAAHA (Student Chapter of the American Animal Hospital Association)
SCAAV (Student Chapter of the Association of Avian Veterinarians)
SCACVA (Student Chapter of the American College of Veterinary Anesthesiologists)
SCACVIM (Student Chapter of the American College of Veterinary Internal Medicine)
SCASV (Student Chapter of the Association of Shelter Veterinarians)
SCAVDS (Student Chapter of the American Veterinary Dental Society)
SCAVSAB (Behavior Medicine Club)

SCAVMA
- The Student Chapter of the American Veterinary Medical Association (SCAVMA) provides an opportunity for all students to gain additional professional knowledge. Through monthly programs concerning every aspect of professional life, students can further their understanding of professional ethics and conduct. Students are introduced to the benefits of organized veterinary medicine. SCAVMA's monthly meetings provide an opportunity for all four classes to meet and interact socially. SCAVMA organizes dances and parties during the year and sponsors the Annual Awards Banquet in the spring. In addition, students who graduate as members in good standing are automatically eligible for many benefits offered by the America Veterinary Medical Association. SCAVMA is dedicated to promoting friendly relations among the students and between the students, faculty and professional community.
- To join SCAVMA, a student can come to a meeting and pay the dues or contact his or her student SCAVMA representative. To become a member in good standing, it is necessary to actively belong to a committee sometime during the four years of school and be a dues paying member. All students currently enrolled in the College of Veterinary Medicine are encouraged to become members and add another dimension to their professional education.

SFT (Student Chapter of the Society for Theriogenology)
SVECCS (Student Veterinary Emergency and Critical Care Society)
VBMA (Veterinary Business Management Association)
VMCC (Veterinary Medicine College Council)
WZAAM (Wildlife, Zoological, Aquatic Animal Medicine Club)

- This club represents the joint student chapters of The American Association of Zoo Veterinarians, Association of Avian Veterinarians and the American Association of Wildlife Veterinarians. The "Zoo Vet Club" provides an educational opportunity for students interested in the veterinary care of non-domestic species. Activities include monthly meetings with guest speakers, wet labs, field trips, visits to local zoological collections and social events. Meeting times are adjusted to exam schedules and will be announced.
VIII. College Information

Organization of the College
The College of Veterinary Medicine is one of six colleges in the Health Science Center (HSC) of the University of Florida. It is also associated with the University of Florida Institute of Flood and Agricultural Sciences (IFAS). The college is organized to carry out its responsibilities of instruction, research, service, and extension. Physically, it is primarily located in three areas of the university campus. There are three main areas of the College of Veterinary Medicine:

- The Veterinary Hospitals (UFVH) and the Veterinary Academic Building (VAB) house the clinical teaching hospital, the college administration, and several other departments.
- The Basic Science Building (BSB), which is located adjacent to the Health Center complex, houses teaching laboratories and one department.
- The College of Veterinary Medicine IFAS Animal Research Facility houses part of one department and some of the research animal space.

Administration
The college administration is headed by the dean, who is closely assisted by the executive associate dean. Two offices function under the dean to administer specific responsibilities. These are the Office for Students and Instruction and the Office of Research and Graduate Studies.

The Office for Students and Instruction is responsible for professional student admissions, student advancement, financial aid, and registration. It coordinates the professional curriculum and assists faculty in their instruction. It is headed by the associate dean for students and instruction.

The Office of Research and Graduate Studies handles the administration of extramural research grants and contracts awarded to faculty, residents, graduate students, and veterinary students. The Office of Research and Graduate Studies also conducts intramural grant competitions for funding of proposals from faculty, residents, and veterinary students, and it assists the departments in the administration of college graduate programs. Both the MS and PhD degrees in the College of Veterinary Medicine are offered. This office is headed by the associate dean for research and graduate studies.

Guidelines for Class Organization
The following is a suggested general outline concerning class procedures and organization:

- Class Officers
  - President
    - To preside over all meetings and to be a member of all standing and temporary committees
    - Time commitment: considerable
  - Treasurer
    - To open and sustain a class account, to collect dues and to pay all bills
    - Time commitment: moderate
  - Secretary:
    - To keep minutes of class meetings, facilitating communications between class members
    - Time commitment: moderate
  - SCAVMA representative
    - To act as a liaison person between classes, SCAVMA and the college and to serve on SCAVMA Executive Board; to collect membership dues and collect money for and distribute class notes, ophthalmoscopes, and to keep the Office for Students and Instruction informed of SCAVMA activities and actions that concern the college, etc.
    - Time commitment: moderate to considerable
• College Council representatives (2)
  ▪ To serve as members of the College Council. The main function of this body is to make a budget and to spend the College of Veterinary Medicine’s share of student fee allocations.
  ▪ Time commitment: minimal
• Student Faculty Communications Committee representatives (2)
  ▪ To serve as members of the Student Faculty Communications Committee, which is concerned with problems affecting the student body as a whole. Additionally, class representatives act as liaisons between the class and teaching faculty and administration on problems pertinent to the class.
  ▪ Time commitment: minimal to moderate
• Curriculum Committee representatives (2)
  ▪ To attend and participate in meetings of the College Curriculum Committee as non-voting members. The dean designates one student representative, usually a senior, as a voting member.
  ▪ Time commitment: moderate

• Elections: *Report all elected officers to the Office for Students and Instruction
  ○ There will be two elections held by the freshmen class:
    ▪ The first election should be held on the first Thursday of the fall semester.
    ▪ A second election should be held at the last meeting of the fall semester. Officers elected at this time will serve until the first day of classes in the sophomore year.
  ○ Elections for the sophomore, junior, and senior class officers should be held at the last meeting of the preceding spring semester.

• Length of term
  ○ Terms for sophomore, junior, and senior officers will be for one year, beginning the first day of class in the fall semester and will extend until the first day of class in the following year.

• Social Committee
  ○ The social committee is appointed by the president.

• Class meetings
  ○ The class meetings are held at a date and time as determined by the president.

• Voting
  ○ All class issues will be decided by a simple majority vote.
  ○ If class officers decide that the issue is of sufficient importance, a two-thirds majority vote by all class members present will be needed.

• Dues
  ○ Dues are to be decided at the first meeting by a two-thirds majority of class members present.

**Committees and Councils**

A variety of groups, including councils and committees, have been established to increase input into the decision making process. The faculty at the College of Veterinary Medicine makes up one group. The faculty elects the Faculty Council with two members from each academic department. The dean, associate deans, and department chairmen constitute the Administrative Council. The dean also appoints standing and ad hoc committees that advise the dean on specific areas of responsibility. The standing committees are:

- Academic Advancement Committee
- Admissions Committee
- Awards and Scholarship Committee
- Curriculum Committee
- Graduate Studies Committee
- Promotion and Tenure Committee
- Research Committee
- Student-Faculty Communications Committee
Several college committees include students to increase student input into the decision making process. Students are unique resources for views and ideas that can improve the college. Each class elects two delegates to the Curriculum Committee. The dean will appoint one of these students as a full voting committee member. Each class elects two delegates to meet with the Student Faculty Communications Committee.

**Departments and Hospitals**

The academic programs of the college are carried out by faculty who are appointed in one of the four academic departments:
- Department of Infectious Diseases and Pathology (IDP);
- Department of Large Animal Clinical Sciences (LACS);
- Department of Physiological Sciences (PS); and
- Department of Small Animal Clinical Sciences (SACS).

The veterinary hospitals are administered under the dean by a chief of staff. This individual is responsible for the professional services of the teaching hospital. Fiscal services are administered by the director of medical health administration. Each service in the hospital is headed by a service chief that is responsible for the service and teaching functions of the service. There are 20 clinical services:
- Anesthesiology
- Applied Pathology
- Behavioral Medicine
- Cardiology
- Clinical Pathology
- Dermatology
- Emergency Medicine
- Equine Theriogenology
- Emergency Medicine
- Food Animal Reproduction and Medicine Services (FARMS)
- Integrated Medicine
- Large Animal Medicine
- Large Animal Surgery
- Neurology
- Oncology
- Ophthalmology
- Radiology
- Practice Based Equine Medicine
- Shelter Medicine
- Small Animal Medicine
- Small Animal Surgery

**Officers of the College**

<table>
<thead>
<tr>
<th>College Administration</th>
<th>Department Chairs</th>
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<tbody>
<tr>
<td>Dean</td>
<td>Infectious Diseases and Pathology</td>
</tr>
<tr>
<td>Executive Associate Dean</td>
<td>Large Animal Clinical Sciences</td>
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<tr>
<td>Associate Dean for Students and Instruction</td>
<td>Physiological Sciences</td>
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<tr>
<td>Associate Dean for Research and Graduate Studies</td>
<td>Small Animal Clinical Sciences</td>
</tr>
<tr>
<td>Director, Medical/Health Administration</td>
<td>Dr. Glen Hoffsis</td>
</tr>
<tr>
<td>Chief of Staff</td>
<td>Dr. John Dame</td>
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<td></td>
<td>Dr. John Harvey</td>
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<td>Dr. Pamela E. Ginn</td>
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<td>Dr. Charles Courtney</td>
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<td>Mr. John Haven</td>
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<td>Dr. Dana Zimmel</td>
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| Dr. David Freeman |
| Dr. Paul Cooke |
| Dr. Rowan Milner |
### Clinical Services

<table>
<thead>
<tr>
<th>Service</th>
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<tbody>
<tr>
<td>Anesthesiology</td>
<td>Dr. Luisito Pablo</td>
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<tr>
<td>Applied Pathology</td>
<td>Dr. Lisa Farina</td>
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<tr>
<td>Behavior Medicine</td>
<td>Dr. Terry Curtis</td>
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<tr>
<td>Cancer Chemotherapy</td>
<td>Dr. Nicholas Bacon</td>
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<tr>
<td>Cardiology</td>
<td>Dr. Amara Estrada</td>
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<tr>
<td>Clinical Pathology</td>
<td>Dr. Rick Alleman</td>
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<tr>
<td>Dermatology</td>
<td>Dr. Ursula Oberkirchner</td>
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<tr>
<td>Emergency Medicine</td>
<td>Dr. Carsten Bandt</td>
</tr>
<tr>
<td>Equine Theriogenology</td>
<td>Dr. Margo Macpherson</td>
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<tr>
<td>Food Animal Reproduction and Medicine Service</td>
<td>Dr. Owen Rae</td>
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<tr>
<td>General Medicine</td>
<td>Dr. Amy Stone</td>
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<tr>
<td>Integrated Medicine</td>
<td>Dr. Richard Hill</td>
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<td>Large Animal Medicine</td>
<td>Dr. Rob Mackay</td>
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<td>Large Animal Surgery</td>
<td>Dr. David Freeman</td>
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<tr>
<td>Neurology</td>
<td>Dr. Tom Schubert</td>
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<td>Ophthalmology</td>
<td>Dr. Dennis Brooks</td>
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<td>Radiology</td>
<td>Dr. Clifford Berry</td>
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<td>Shelter Medicine</td>
<td>Dr. Natalie Isaza</td>
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<td>Small Animal Medicine</td>
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<td>Small Animal Surgery</td>
<td>Dr. Gary Ellison</td>
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<td>Zoological Medicine</td>
<td>Dr. Darryl Heard</td>
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### Committee Chairs

<table>
<thead>
<tr>
<th>Committee</th>
<th>Chair</th>
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<tbody>
<tr>
<td>Academic Advancement Committee</td>
<td>Dr. Carlos Risco</td>
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<tr>
<td>Administrative Council</td>
<td>Dr. Glen Hoffsis</td>
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<tr>
<td>Admissions Committee</td>
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<tr>
<td>Awards and Scholarship Committee</td>
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<tr>
<td>Curriculum Committee</td>
<td>Dr. Dan Brown</td>
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<tr>
<td>Energy, Safety, and Biohazard Committee</td>
<td>Dr. Karen Scott</td>
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<tr>
<td>Graduate Studies Committee</td>
<td>Dr. Charles Courtney</td>
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<tr>
<td>Research Committee</td>
<td>Dr. Mary Brown</td>
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<tr>
<td>Student Faculty Communications Committee</td>
<td>Dr. Tom Wronske</td>
</tr>
<tr>
<td>Library Committee</td>
<td>Mr. Andy Kellenberger</td>
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<tr>
<td>Multicultural/Special Programs</td>
<td>Dr. Charles Courtney</td>
</tr>
<tr>
<td>Promotion and Tenure Committee</td>
<td>Dr. Steve Roberts</td>
</tr>
<tr>
<td>Residency Committee</td>
<td>Dr. Chris Sanchez</td>
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<tr>
<td></td>
<td>Dr. Michael Schaeer</td>
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Last updated: 11/20/2012 (K. Mohrmann)