

Cover Sheet: Request 13912

VEM 5XXXC Advanced Critical Care

Info

Process	Course New Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Amanda Larson smithal@ufl.edu
Created	5/13/2019 2:00:52 PM
Updated	5/13/2019 3:43:46 PM
Description of request	This course will serve as a requisite for the Certificate in Veterinary Emergency Medicine

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	VM - Small Animal Clinical Sciences 312809000	Christopher Adin	Approved at department level vote several months ago	5/13/2019
No document changes					
College	Approved	VM - College of Veterinary Medicine	Juan Samper		5/13/2019
Advanced critical care course Syllabus.pdf					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			5/13/2019
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|New for request 13912

Info

Request: VEM 5XXXC Advanced Critical Care

Description of request: This course will serve as a requisite for the Certificate in Veterinary Emergency Medicine

Submitter: Amanda Larson smithal@ufl.edu

Created: 5/13/2019 1:47:36 PM

Form version: 1

Responses

Recommended Prefix VEM

Course Level 5

Number XXX

Category of Instruction Advanced

Lab Code C

Course Title Advanced Critical Care

Transcript Title Advanced Crit Care

Degree Type Professional

Delivery Method(s) On-Campus

Co-Listing No

Co-Listing Explanation N/A

Effective Term Fall

Effective Year 2020

Rotating Topic? No

Repeatable Credit? No

Amount of Credit 2

S/U Only? No

Contact Type Regularly Scheduled

Weekly Contact Hours 10

Course Description An advanced elective course with an emphasis on the management of critically-ill patients in the intensive care unit. The course will build upon the physiological principles, as well as emergency and critical care fundamentals learned in previous courses.

Prerequisites None

Co-requisites None

Rationale and Placement in Curriculum This course will serve as a requisite to the Certificate in Veterinary Emergency Medicine

Course Objectives

1. Describe advanced cardiovascular and respiratory monitoring techniques, and interpret the results in light of the status of the critically-ill patient.
2. Understand the basic principles of mechanical ventilation and extracorporeal blood purification techniques (hemodialysis, hemoperfusion and therapeutic plasma exchange).
3. Apply the principles of the cell-based model of coagulation in order to interpret advanced coagulation tests and appropriately prescribe anticoagulant and thrombolytic therapies.
4. Demonstrate advanced clinical skills in placement of central lines, chest tubes, tracheostomy tubes, and urinary catheterization. Also demonstrate appropriate thoracocentesis, pericardiocentesis and abdominocentesis techniques.
5. Have well-developed communication skills in order to have difficult conversations with clients when their pets are critically ill and end-of-life conversations in an emergency setting.

Course Textbook(s) and/or Other Assigned Reading None

Weekly Schedule of Topics This elective course will take place over a 3 week period during the first part of the fall semester of the senior year.

1. ER/ICU Communication (1 hour)

Instructor: Dr. Travis Lanaux

2. Focused ultrasound assessment and point of care diagnostics (1 hour)

Instructors: Drs. Travis Lanaux

3. Advanced cardiovascular monitoring (2 hours)

Instructors: Dr. Samantha Campos

4. Advanced toxicology (2 hours)

Instructor: Dr. Leo Londoño

5. Coagulation (2 hours)

Instructor: Dr. Bobbi Conner

6. Dialysis and extracorporeal blood purification (2 hours)

Instructor: Leo Londoño

7. Severe pulmonary disease and mechanical ventilation (2 hours)

Instructor: Dr. Gareth Buckley

8. Nutrition and feeding tubes in the critically ill (2 hours)

Instructor: Dr. Ashley Allen

9. Vasopressor and fluid therapy in the critically ill (2 hours)

Instructor: Dr. Leo Londoño

10. Post-op care and surgical complications in the ICU (2 hours)

Instructor: Drs. Travis Lanaux and Gareth Buckley

11. Management of difficult electrolyte and acid-base derangements (2 hours)

Instructors: Drs. Michael Schaer and Leo Londoño

12. Compartment syndrome and intraabdominal pressure (1 hour)

Instructor: Dr. Bobbi Conner

13. Management of hospital acquired infectious diseases (1 hour)

Instructor: Dr. Gareth Buckley

14. Heatstroke, smoke inhalation, electrical and submersion injuries (2 hours)

Instructor: Drs. Ashley Allen and Samantha Campos

Laboratory 1 (cadaver lab) 4 hours: Advanced Procedures

Five stations (40 min per station):

1. Advanced vascular access (jugular and lateral saphenous cut-downs)
2. Thoracocentesis, pericardiocentesis (approach), and abdominocentesis
3. Tracheostomy
4. Feeding tubes
5. Urinary Catheterization
6. Focused Ultrasound Techniques
 - a. A-FAST
 - b. T-FAST
 - c. VET-BLUE

Laboratory 2 (Clinical Skills lab) 2 hours: Communication lab

Ethical Dilemmas and Communication Challenges in emergency and critical care

TOTAL contact time: 30 hours (24 lecture + 6 labs)

Links and Policies <http://www.vetmed.ufl.edu/education/documents/studentHandbook.pdf>

<http://www.dso.ufl.edu/drc/>

<http://www.dso.ufl.edu/judicial/honorcodes/honorchttps://evaluations.ufl.edu/evals/ode.php>

Grading Scheme There will be no homework assignments for this course. There will be two (2) laboratory sessions in which attendance will be collected and is mandatory. Successful participation in the labs will account for 20% of the overall course grade (10% per lab). Lack of attendance or failure to satisfactorily participate will result in a zero (0) grade for that laboratory. Note: an unexcused absence at one of the labs will result in a 15% deduction from the final grade, resulting in a maximum possible grade of a B, while two unexcused lab absences will result in a 30% deduction, and a maximum grade of a C- for the course.

There will be one (1) exam for the course, covering material from each of the lectures and laboratories. The exam will account for 80% of the final grade of the course. The exam questions will be a mixture of multiple choice, short answer, and/or matching.

The grading scale is as below:

<60	E
60-63	D-
64-65	D
66-69	D+
70-73	C-
74-75	C
76-79	C+
80-83	B-
84-85	B
86-89	B+
90-93	A-
94-100	A

Instructor(s) Drs. Ashley Allen, Gareth Buckley, Samantha Campos, Bobbi Conner, Travis Lanaux, Leo Londoño

University of Florida - College of Veterinary Medicine

VEM ---- Advanced Critical Care Course (Senior Elective)

I. Course information

Number: VEM XXX
Course Title: Advanced Critical Care
Semester: fall
Year: 4th
Course credit: 2

II. General information

Course Coordinator: Leo Londoño, DVM, DACVECC
Office location & office hours: location TBD, by appointment.
Cell phone number: 352-496-3343 (calls or texts)
Email: londonol@ufl.edu
Course Faculty: Drs. Ashley Allen, Gareth Buckley, Samantha Campos, Bobbi Conner, Travis Lanaux, Leo Londoño.

III. Description

The advanced critical care course is an advanced elective course with an emphasis on the management of critically-ill patients in the intensive care unit. The course will build upon the physiological principles, as well as emergency and critical care fundamentals learned in previous courses. During this course students will learn about cardiovascular and respiratory monitoring, coagulopathies and advanced coagulation tests/therapies, hemodialysis for the renal patient and extracorporeal purification for life-threatening intoxications and immune-mediated disorders, principles of mechanical ventilation, nutrition in the critically ill, advanced concepts of sepsis and management of sepsis, and communication strategies with owners whose pets are critically-ill.

The course will also provide hands-on experience with two dry-laboratories. One laboratory will teach advanced vascular access (e.g. jugular cut-downs), tracheostomy and chest-tube placement, thoracocentesis/pericardiocentesis/abdominocentesis, feeding tube placement and focused ultrasound techniques. The second lab will be focused on development of communication skills required during difficult conversations in the emergency and critical care setting, and end-of-life decisions.

The course is intended to be taken by all students interested in emergency and critical care medicine, and those who are interested in small animal practice. The course is also a

requirement for completion of the ECC certificate program during the fall of the senior year of the veterinary curriculum.

IV. Learning Objectives

Upon successful completion of this course, students will be able to:

1. Describe advanced cardiovascular and respiratory monitoring techniques, and interpret the results in light of the status of the critically-ill patient.
2. Understand the basic principles of mechanical ventilation and extracorporeal blood purification techniques (hemodialysis, hemoperfusion and therapeutic plasma exchange).
3. Apply the principles of the cell-based model of coagulation in order to interpret advanced coagulation tests and appropriately prescribe anticoagulant and thrombolytic therapies.
4. Demonstrate advanced clinical skills in placement of central lines, chest tubes, tracheostomy tubes, and urinary catheterization. Also demonstrate appropriate thoracocentesis, pericardiocentesis and abdominocentesis techniques.
5. Have well-developed communication skills in order to have difficult conversations with clients when their pets are critically ill and end-of-life conversations in an emergency setting.

V. Schedule

This elective course will take place over a 3 week period during the first part of the fall semester of the senior year.

1. ER/ICU Communication (1 hour)
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2. Focused ultrasound assessment and point of care diagnostics (1 hour)
Instructors: Drs. Travis Lanaux
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Instructors: Dr. Samantha Campos
4. Advanced toxicology (2 hours)
Instructor: Dr. Leo Londoño
5. Coagulation (2 hours)
Instructor: Dr. Bobbi Conner
6. Dialysis and extracorporeal blood purification (2 hours)
Instructor: Leo Londoño
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Instructor: Dr. Gareth Buckley
8. Nutrition and feeding tubes in the critically ill (2 hours)
Instructor: Dr. Ashley Allen

9. Vasopressor and fluid therapy in the critically ill (2 hours)
Instructor: Dr. Leo Londoño
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VI. Grading/ Testing

There will be no homework assignments for this course. There will be two (2) laboratory sessions in which attendance will be collected and is **mandatory**. Successful participation in the labs will account for 20% of the overall course grade (10% per lab). Lack of attendance or failure to satisfactorily participate will result in a zero (0) grade for that laboratory. Note: an unexcused absence at one of the labs will result in a 15% deduction from the final grade, resulting in a maximum possible grade of a B, while two unexcused lab absences will result in a 30% deduction, and a maximum grade of a C- for the course.

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76-79	C+
80-83	B-
84-85	B
86-89	B+
90-93	A-
94-100	A

VII. Attendance

Attendance is expected at all lectures. While course notes will be provided, material may be presented during the lectures that is not specifically highlighted in the lecture notes, and students will be responsible for presented material as well. Powerpoint slides will be made available to students at the discretion of the lecturer, but may only be provided the day of the lecture or immediately following the lecture.

Attendance at laboratory sessions is **mandatory**. Students will be expected to arrive on time at the designated location and to participate, and attendance will be recorded. Due to the nature of the laboratory sessions, *make-up laboratories will not be possible*. In the event of a conflict, students should make every effort to find a student to switch laboratory days/times with, but must receive prior approval from the course coordinator. In the event of an unforeseen emergency, students will be required to complete a make-up assignment after providing documentation (e.g., doctor's note).

VIII. Administrative Policies

See Student Handbook at

<http://www.vetmed.ufl.edu/education/documents/studentHandbook.pdf>

Accommodations for Students with Disabilities

Students requesting accommodations must first register with the Dean of Students Office, Disability Resource Center at 352-392-8565. Students may also apply on-line for accommodations. For more information, see the Disability Resource Center website at: <http://www.dso.ufl.edu/drc/>

The Disability Resource Center will provide a letter to the student who must then meet with the course instructor to discuss the required accommodations. Once notification is complete, the instructor can work with the Disability Resource Center to provide the requested accommodations. To ensure that necessary accommodations are provided in a timely manner, it would expedite this process if any student who might need an accommodation would notify the course coordinator during registration.

Honesty Policy

All students registered at the University of Florida have agreed to comply with the following statement: "I understand that the University of Florida expects its students to be honest in all 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." In addition, on all work submitted for credit the following pledge is either required or implied: "On my honor I have neither given nor received unauthorized aid in doing this assignment." To review the student honor code please visit: <http://www.dso.ufl.edu/judicial/honorcodes/honorcode.php>

Plagiarism

Includes any attempt to take credit for another person's work. This includes quoting directly from a paper, book, or website, without crediting the source. Sources should be noted, a link to the website added, or quotation marks placed around the material and attributed, even during online discussions. However, the instructor expects more than simply cutting and pasting in this graduate-level course. Students are expected to review, evaluate and comment on material they research, rather than simply copying relevant material. Work will be graded accordingly.

Student Evaluation of Instruction - Evaluations are performed electronically at the end of the course. To evaluate the instructors, visit the UF Evaluation site at: <https://evaluations.ufl.edu/evals/>. If at least 90% of the class completes the online evaluation, the entire class will be given an extra 4 percentage points toward the final course grade.

Basic Requests

- Please arrive on time; tardiness is disruptive to your classmates and the instructors. The lecturers will make every effort to start and end on time as well. For days when the same lecturer is speaking for both periods, a 10 minute break will be given around the 1 hour mark (but may not adhere as strictly to the 50 minute lecture hour).
- Please be courteous to the lecturer. We all have dedicated a lot of time to writing course notes, writing, revising, and creating lecture materials.

- All cell phones must be turned off during lectures.
- Professional conduct is expected at all times.