

Cover Sheet: Request 10488

VEM 5983

Info

Process	Course New Ugrad/Pro
Status	Pending
Submitter	Berry, Clifford Rudd, III berryk@ufl.edu
Created	10/13/2015 1:13:30 PM
Updated	3/4/2016 9:08:46 AM
Description	The student will actively participate in the daily ultrasound service for small animals during this two week clerkship senior rotation. Included expectations will be the performance and interpretation of abdominal ultrasound examinations for dogs and cats.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	VM - Small Animal Clinical Sciences 312809000	MILNER, ROWAN JAMES		10/13/2015
No document changes					
College	Approved	VM - College of Veterinary Medicine	Thomas Vickroy		2/3/2016
No document changes					
University Curriculum Committee	Comment	PV - University Curriculum Committee (UCC)	Case, Brandon	Added to the March agenda.	2/17/2016
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/17/2016
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 10488

Info

Request: VEM 5983

Submitter: Berry, Clifford Rudd, III berryk@ufl.edu

Created: 10/13/2015 1:13:30 PM

Form version: 1

Responses

Recommended Prefix

Enter the three letter code indicating placement of course within the discipline (e.g., POS, ATR, ENC). Note that for new course proposals, in rare cases SCNS will assign a different prefix.

Response:

VEM

Course Level

Select the one digit code preceding the course number that indicates the course level at which the course is taught (e.g., 1=freshman, 2=sophomore, etc.).

Response:

5

Number

Enter the three digit code indicating the specific content of the course based on the SCNS taxonomy and course equivalency profiles. For new course requests, this may be XXX until SCNS assigns an appropriate number.

Response:

983

Lab Code

Enter the lab code to indicate whether the course is lecture only (None), lab only (L), or a combined lecture and lab (C).

Response:

None

Course Title

Enter the title of the course as it should appear in the Academic Catalog.

Response:

Clerkship in Veterinary Ultrasound

Transcript Title

Enter the title that will appear in the transcript and the schedule of courses. Note that this must be limited to 21 characters (including spaces and punctuation).

Response:
Veterinary Ultrasound

Effective Term

Select the requested term that the course will first be offered. Selecting "Earliest" will allow the course to be active in the earliest term after SCNS approval. If a specific term and year are selected, this should reflect the department's best projection. Courses cannot be implemented retroactively, and therefore the actual effective term cannot be prior to SCNS approval, which must be obtained prior to the first day of classes for the effective term. SCNS approval typically requires 2 to 6 weeks after approval of the course at UF.

Response:
Earliest Available

Effective Year

Select the requested year that the course will first be offered. See preceding item for further information.

Response:
Earliest Available

Rotating Topic?

Select "Yes" if the course will have rotating (varying) topics in different terms. For rotating topics courses, the course title in the Schedule of Courses and the transcript can vary with the topic.

Response:
No

Amount of Credit

Select the number of credits awarded to the student upon successful completion, or select "Variable" if the course will be offered with variable credit and then indicate the minimum and maximum credits per section. Note that credit hours are regulated by Rule 6A-10.033, FAC. If you select "Variable" for the amount of credit, additional fields will appear in which to indicate the minimum and maximum number of total credits.

Response:
2

Repeatable Credit?

Select "Yes" if the course may be repeated for credit. Some courses, such as independent study courses, will have rotating (variable) topics. Students may be allowed to repeat these courses provided the content is different.

Response:

No

S/U Only?

Select "Yes" if all students should be graded as S/U in the course. Note that each course must be entered into the UF curriculum inventory as letter-graded or S/U. A course may not have both options. However, letter-graded courses allow students to take the course S/U with instructor permission.

Response:

No

Contact Type

Select the best option to describe course contact type. This selection determines whether base hours or headcount hours will be used to determine the total contact hours per credit hour. Note that the headcount hour options are for courses that involve contact between the student and the professor on an individual basis.

Response:

Regularly Scheduled

- Regularly Scheduled [base hr]
- Thesis/Dissertation Supervision [1.0 headcount hr]
- Directed Individual Studies [0.5 headcount hr]
- Supervision of Student Interns [0.8 headcount hr]
- Supervision of Teaching/Research [0.5 headcount hr]
- Supervision of Cooperative Education [0.8 headcount hr]

Contact the Office of Institutional Planning and Research (352-392-0456) with questions regarding contact type.

Degree Type

Select the type of degree program for which this course is intended.

Response:

Professional

Weekly Contact Hours

Indicate the number of hours faculty will have contact with students each week on average throughout the duration of the course.

Response:

40

Category of Instruction

Indicate whether the course is introductory, intermediate or advanced. Introductory courses are those that require no prerequisites and are general in nature. Intermediate courses require some

prior preparation in a related area. Advanced courses require specific competencies or knowledge relevant to the topic prior to enrollment.

Response:
Introductory

- 1000 and 2000 level = Introductory undergraduate
- 3000 level = Intermediate undergraduate
- 4000 level = Advanced undergraduate
- 5000 level = Introductory graduate
- 6000 level = Intermediate graduate
- 7000 level = Advanced graduate

4000/5000 and 4000/6000 levels = Joint undergraduate/graduate (these must be approved by the UCC and the Graduate Council)

Delivery Method(s)

Indicate all platforms through which the course is currently planned to be delivered.

Response:
On-Campus

Course Description

Provide a brief narrative description of the course content. This description will be published in the Academic Catalog and is limited to 50 words or fewer. See course description guidelines.

Response:
This clerkship will provide the student with experience in the performance and interpretation of abdominal ultrasounds in small animal patients at the UF | Veterinary Hospitals.

Prerequisites

Indicate all requirements that must be satisfied prior to enrollment in the course. Prerequisites will be automatically checked for each student attempting to register for the course. The prerequisite will be published in the Academic Catalog and must be formulated so that it can be enforced in the registration system. Please note that upper division courses (i.e., intermediate or advanced level of instruction) must have proper prerequisites to target the appropriate audience for the course.

Response:
Passing grades in VEM 5783 & VEM 5883 & VEM 5262

Completing Prerequisites on UCC forms:

- Use "&" and "or" to conjoin multiple requirements; do not use commas, semicolons, etc.
- Use parentheses to specify groupings in multiple requirements.
- Specifying a course prerequisite (without specifying a grade) assumes the required passing grade is D-. In order to specify a different grade, include the grade in parentheses immediately after the course number. For example, "MAC 2311(B)" indicates that students are required to obtain a grade of B in Calculus I. MAC2311 by itself would only require a grade of D-.
- Specify all majors or minors included (if all majors in a college are acceptable the college code is sufficient).
- "Permission of department" is always an option so it should not be included in any prerequisite or

co-requisite.

*Example: A grade of C in HSC 3502, passing grades in HSC 3057 or HSC 4558, and major/minor in PPHP should be written as follows:
HSC 3502(C) & (HSC 3057 or HSC 4558) & (HP college or (HS or CMS or DSC or HP or RS minor))*

Co-requisites

Indicate all requirements that must be taken concurrently with the course. Co-requisites are not checked by the registration system.

Response:
None

Rationale and Placement in Curriculum

Explain the rationale for offering the course and its place in the curriculum.

Response:
This course allows the student for specific experience in small animal abdominal ultrasound as this is becoming an imaging modality in veterinary practices throughout the country. Students are expected to have this experience upon graduation.

Course Objectives

Describe the core knowledge and skills that student should derive from the course. The objectives should be both observable and measurable.

Response:
1) Become competent in recognizing and assessing all abdominal organs of the dog and cat using ultrasound.
2) Understand what is involved in routine sonographic evaluation of the small abdomen and interpretation of sonographic abnormalities. This includes quality control/image optimization, indications, sonographic findings, conclusions, differential diagnosis(es), and recommendations for further case workup.

Course Textbook(s) and/or Other Assigned Reading

Enter the title, author(s) and publication date of textbooks and/or readings that will be assigned, or a representative list of readings.

Response:
Penninck D and d'Anjou M. Atlas of Small Animal Ultrasound, 2nd edition, Wiley-Blackwell, 2015.

Weekly Schedule of Topics

Provide a projected weekly schedule of topics. This should have sufficient detail to evaluate how the course would meet current curricular needs and the extent to which it overlaps with existing courses at UF.

Response:

The student will participate in the current ultrasound service at the UF | Veterinary Hospitals, Small Animal Hospital. Each day includes morning rounds with residents and faculty with review of the prior days ultrasound cases. The student will participate in the ultrasound service in which 12 to 18 scans are done each day. The student will help in the production of images during the course of a scan and understand the basic operation of the ultrasound machine for this image optimization. The student will also participate in the interpretation of the ultrasound case with appropriate differential diagnoses. The student will be allowed to obtain ultrasound guided cystocentesis after practice on the first day with an ultrasound phantom.

Grading Scheme

List the types of assessments, assignments and other activities that will be used to determine the course grade, and the percentage contribution from each. This list should have sufficient detail to evaluate the course rigor and grade integrity.

Response:

There will be 2 assessments and 4 assignments that will determine the course grade along with participation in the ultrasound service.

Participation - 30%

US Quiz 1 - review of physics and artifacts - 20%

US Quiz 2 - interpretation quiz - 35%

Assignments:

2 ppt presentations during the course of the 2 week rotation regarding an interesting case - 10%

2 interpretation reports during the course of the 2 week rotation (cases chosen by the faculty) - 5%

Instructor(s)

Enter the name of the planned instructor or instructors, or "to be determined" if instructors are not yet identified.

Response:

Clifford R. Berry, DVM, DACVR

Matthew D. Winter, DVM, DACVR

Erin Porter, DVM, DACVR

Cintia Oliviera, DVM, DACVR

**University of Florida
College of Veterinary Medicine
Syllabus – VEM 5983
Diagnostic Imaging Service**

I. Course information

Number: VEM 5983 (proposed)

Course Title: Elective Radiology Clerkship – ABDOMINAL ULTRASOUND OF SMALL ANIMALS

Phase: III

Semester: SPRING

Year: 2016

Course credit: 2

II. General information

Course director: Clifford Berry, DVM, DACVR

Office location & office hours: VC-112

Office phone number: 352-294-4409

Email: berryk@ufl.edu

Course Faculty and Residents: C. Berry (Professor), C. Oliveira (Clinical Assistant Professor), M. Winter (Clinical Associate Professor), E. Porter (Clinical Assistant Professor), R. Giglio (House Officer III), and Dr. Fritha Saunders (House Officer II), Dr. Elisa Spoldi (House Officer I).

III. Course description

WELCOME!

You are a select few that have opted to take the US section. Your materials will be through the VEM 5983 course on Canvas.

HOURS OF OPERATION AND ORIENTATION

Hours of operation

8am to 5pm (or until the last case is finished - be sure to check with the technicians prior to leaving).

Orientation

Meet at 8am in radiology reading room on the first Monday of the rotation. Use your gator link log in for Sakai for the course (VEM 5883; <http://lss.at.ufl.edu>).

Dress Code

Each student is expected to wear neat scrubs on this rotation, along with appropriate footwear (closed toe shoes).

Attendance

The student is expected to attend the ultrasound service on a daily basis. The ultrasound service starts at 8 AM each day with rounds and ends after the last case of the day. Participation within the rotation on each day is expected. This includes the participation with the chief technologists in the daily running of the service with patient flow and starting with the cranial abdomen and extending to small part imaging by the end of the service.

Make Up Policy

Under certain circumstances (illness, family crisis, etc.) missing of a day or several days will be excused. Make sure that you contact the senior clinician on duty the morning of the day to be missed or within 24 hours of missing the service. If the missed day is unexcused, it will have to be made up prior to releasing a grade for the rotation and the student will receive an incomplete.

GENERAL ROTATION OVERVIEW

You will have two weeks in US. While on US, you will be running the US service (along with Danielle Mauragis or Lisa McElveen) making sure that the schedule is holding patients for ultrasound, during the week that you are assigned to a specific section to scan. Use your ultrasound notes and ultrasound textbooks to review these sections. If clinics are busy, you may be asked to help out in other areas, but only as a last resort.

Course Outline & schedule:

ROTATION STRUCTURE –

- i. Morning rounds (8:00 – 10.00am): You will spend each morning in rounds with the US resident reviewing US dictations. On the Wednesday morning, you will attend Interpretation Rounds with the core and elective radiology students in the radiology rounds room from 9:00 – 10.00am. On these dates, you will present a 5-minute presentation on an US artifact the first week and an interesting case the second week. If you log into PACS and right click on the image, you can save the image to the desk top for inclusion in a power point presentation.
- ii. Quiz I and Quiz II (Fridays, 8 – 9am): Each week you will take a quiz over different aspects of US as listed below.
- iii. You will go through RIS and find 5 good examples of a specific case and save to a DICOM data set (see Dr. Berry for further details). You will label the US images according to the abnormalities present and then load into a pre-built case presentation scenario for use in the US course in August.
- iv. You will create 10 single answer, multiple choice, questions with images related to US for the next VEM 5262 US course.
- v. You will help in creating a teaching file related to primary diseases of the dog and cat abdomen. This will include abdominal radiographs. Sections iii to v can be done on Monday morning (second week) from 8 to 10 am and Friday mornings (both weeks) from 9 am until 12 pm.

ASSESSMENTS FOR VEM 5883 (US version)

1. Quizzes – The two quizzes will make up 50% of the US grade. The quizzes will include cases so that you should be able to describe:
 - Quiz 1
 - a) Physics of ultrasound and artifacts, normal ultrasound appearance of the abdominal organs in the dog and cat)
 - Quiz 2

- a) sonographic abnormalities (based on a sonographic sign approach where echogenicity replaces opacity for a roentgen sign)
 - b) summary sentence of abnormalities seen
 - c) differential diagnosis(es) – prioritized based on signalment, history and other case management information
 - d) next step(s) for appropriate case management
 - e) the first quiz will be on the first Friday of the rotation and the second quiz will be on the second Friday of the rotation (25% each)
2. US presentations and Dictations (20% of final grade)
- i. The two .ppt presentations will count 10% of the grade. This will be presented on the Wednesdays from 9 to 9:10 am in student rounds.
 - ii. US dictations – each day, you will be expected to dictate (see resident for directions) an ultrasound case (no normal cases allowed). The following information must be entered into the assignment section: Dictations in Sakai and is the students responsibility; patient name (ie 'Fluffy' Smith), MR #, Accession #, species, body part, and Resident/Radiologist who primarily helped with the dictation. The actual report does NOT need to be placed in Sakai. Completion of ALL dictations will be graded as pass/fail.
3. US service participation (20% of final grade)
- i. Daily participation in the service is expected. You are to ensure that all is ready go regarding the cases and case management. This includes pulling up and reviewing prior US or abdominal radiographs for the patient; prior FNA results; setting up for potential FNAs, cystocentesis or abdominal centesis.
 - ii. You will stay in US during the entire rotation and expected to stay until the last case is completed and dictated at the end of the day.
 - iii. Participation in the course development aspect as described above (Cases and questions for VEM 5262)
4. US skills development (10% of final grade)
- a. During the course of the two weeks, you refine your skills in US. The progression for each day will be: liver/gb; spleen; left kidney/adrenal; right kidney; right adrenal; pancreas; lymph nodes and then GI tract (all aspects). During the last two days of the rotation, you might be requested to do a complete US exam.
 - b. You will probably not be able to scan every case that comes through, but will get a lot of scan time during the course of the rotation.
 - c. This grade will be assigned by the senior clinician or the radiology resident and technician.

IV. Course Materials

COURSE OBJECTIVES

- 1) Become competent in recognizing and assessing all abdominal organs sonographically.
- 2) Understand what is involved in routine sonographic evaluation of the small abdomen and interpretation of sonographic abnormalities. This includes quality control/image optimization, indications, sonographic findings, conclusions, differential diagnosis(es), and recommendations for further case workup.

Required texts:

1. VEM 5261 Course notes (or equivalent)
2. VEM 5262 Course notes (or equivalent)
3. Thrall DE, Textbook of Veterinary Diagnostic Radiology, 5th or 6th ed., Philadelphia, Elsevier, 2007.

Recommended/ Reference texts:

1. Nyland TG and Mattoon JS, Small Animal Diagnostic Ultrasound, 3rd ed., Philadelphia, Elsevier, 2015.
2. Penninck D and d'Anjou MA, Atlas of Small Animal Ultrasonography, 2nd ed., Iowa, Blackwell, 2015

V. Evaluation/ Grading/ Testing:**GRADE DISTRIBUTION**

- 25% Quiz I
- 25% Quiz II
- 20% US presentations (x2) and dictations (10 minimum)
- 20% Ultrasound service participation
- 10% US skill development

GRADE SCALE

A	95-100	C+	77-79
A-	90-94	C	74-76
B+	87-89	C-	70-73
B	84-86	D+	67-69
B-	80-83	D	60-66
F – Less than 60 (will require the student to repeat the rotation after coming before the Academic Advancement Committee)			

Clinical competencies

As indicated above in Assessments.

VI. Administrative Policies: see Student Handbook @

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

Remediation

Individual students can reschedule examinations in the case of documented medical or family need, or other unusual extenuating circumstances. This should be done prior to the scheduled examination. The course instructor should be notified as soon as possible if special arrangements need to be made.

Attendance

Attendance in all scheduled events related to the clerkship is expected. See previous description.

Academic Honesty

The College of Veterinary Medicine expects students to be honest in all their class work. Therefore, students are required to commit themselves to academic honesty by signing the following statement 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."

Professional Behavior

Satisfactory demonstration of professional attitudes considered important for successful performance in veterinary medicine including, but not limited to, academic honesty, interpersonal relations and communication skills, behavior and conduct with animals, clients, faculty, students, 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. Satisfactory demonstration of professional attitudes considered important for successful performance in veterinary medicine including, but not limited to, academic honesty, interpersonal relations and communication skills, behavior and conduct with animals, clients, faculty, students, 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.

IMPORTANT: Student Evaluation of Instruction

Each instructor involved in didactic teaching efforts is evaluated by the students in the course of his or her major involvement as determined by the Department Chair. 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. You can log into the evaluation website in order to evaluate the residents and faculty. This evaluation is open on Wednesday to Friday the last week of the rotation prior to the final test of the rotation on Friday morning.

Accommodations for Students with Disabilities

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

Questions to resolve from the University Curriculum Committee.
VEM 5983: Ultrasound Elective Rotation
From: CR Berry, DVM
To: Dr. Angela Lindner

Dear Dr. Lindner, please let me know if the following does not resolve the issues that you needed addressed.

VEM 5983: Clerkship in Veterinary Ultrasound [CA]

- 1) <http://apps.aa.ufl.edu/Approval/Requests/Info/10488>
 - 1 Study uploaded to this web site.
- 2) Does this course fall along a set curriculum plan the follows the course prerequisites?
 - 1 Yes – VEM 5783 and 5883 are prerequisites.
- 3) 40 hrs of contact hours a week for 2 credit hours.
 - 1 Does this course have a lecture/classroom component in addition to clerkship?
 - 2 No.
- 4) Please include the UF attendance/makeup policy in regards to clerkship hours and assessments.
 - 1 Attendance and makeup policies added to course syllabus.
 - 2 New syllabus uploaded at this web site.
- 5) Grading Scheme:
 - 1 Participation – 30%. This involves attendance and active participation within the rotation. The ultrasound service is a busy service and it would be easy for the student to step back and let it happen, but this will require the student to engage in the service and be mindful of the cases going through each day. This will be graded as: A = excellent; B = good and C = average. Due to the small confines of the room it will be easy for the senior clinician and the resident to engage the student.