VMB 933: Veterinary Pharmacology I

In Workflow
1. 19VMA Grad Head (mcmcgaha@ncsu.edu)
2. CVM CC Coordinator GR (kenuss@ncsu.edu; kjsapko@ncsu.edu)
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10. Grad Final Review (mlnosbis@ncsu.edu)
11. PeopleSoft (none)

Approval Path
1. Fri, 07 Apr 2017 21:22:59 GMT
   Mary McGahan (mcmcgaha): Approved for 19VMA Grad Head
2. Mon, 10 Apr 2017 17:03:28 GMT
   Kirk Nuss (kenuss): Approved for CVM CC Coordinator GR
3. Mon, 10 Apr 2017 20:19:40 GMT
   Mark Papich (mark_papich): Approved for CVM CC Chair GR
4. Mon, 10 Apr 2017 20:34:00 GMT
   Jennifer Neel (jgneel): Approved for CVM Dean GR
5. Mon, 17 Apr 2017 14:46:43 GMT
   Mark Papich (mark_papich): Approved for mgpapich
6. Tue, 18 Apr 2017 16:05:44 GMT
   Mark Papich (mark_papich): Approved for mgpapich
   Melissa Nosbisch (mlnosbis): Approved for ABGS Coordinator
8. Fri, 28 Apr 2017 14:59:29 GMT
   Melissa Nosbisch (mlnosbis): Approved for ABGS Meeting

Date Submitted: Fri, 07 Apr 2017 21:12:47 GMT

Viewing: VMB 933 : Veterinary Pharmacology I
Changes proposed by: mgpapich

Change Type
Major

Course Prefix
VMB (Veterinary Science - VMB)

Course Number
933

Course ID
021830

Cross-listed Course
No
Title
Veterinary Pharmacology I

Abbreviated Title
Pharmacology I

College
College of Veterinary Medicine

Academic Org Code
Teaching - MBS Department (19VMA)

CIP Discipline Specialty Number
51.2401

CIP Discipline Specialty Title
Veterinary Medicine.

Term Offering
Fall Only

Year Offering
Offered Every Year

Effective Date
Fall 2017

Previously taught as Special Topics?
No

Course Delivery
Face-to-Face (On Campus)

Grading Method
Letter Grade Only

Credit Hours
3

Course Length
13 weeks

Contact Hours
Component Type | Contact Hours
----------------|-------------
Lecture         | 3.0

Course Is Repeatable for Credit
No

Instructor Name
Catalog Description

This course focuses on the action of drugs in animals and basic principles of drug disposition and pharmacokinetics. The course will provide presentations on the principles of pharmacology of medications used in animals. Principles of autonomic pharmacology will form a foundation that is important to other drug groups. Important drug groups discussed during the course will be sympathetic and parasympathetic agonists and antagonists, anesthetic, sedative, and tranquilizer drugs. During the chemotherapy portion of the course, anti-infective agent chemotherapy will be discussed, which includes antibacterial, antiparasitic, antifungal, and antiviral drugs. Anticancer agents also will be considered in the chemotherapy portion of the course.

Justification for each revision:

Course title and format have been edited because of new instructor. Course title and description more accurately reflect content. Review coincides with updates for VMB 943, (Pharmacology II) which follows in the Spring Semester to ensure they flow from one to another.

Does this course have a fee?

No

Consultation

College(s) Contact Name Statement Summary
College of Veterinary Medicine Kirk Nuss Course unique to veterinary program. Outside consult appears unnecessary.

Instructional Resources Statement

Faculty teach this course as part of their regular obligations.

Course Objectives/Goals

Course Objectives / Goals:

The course objectives are to provide second-year veterinary students with an introduction to the aspects of pharmacology important to treat diseases in animals. Specifically:

* Instructors will demonstrate to students basic concepts of drug distribution, metabolism, excretion

* The course will provide students with basic understanding of important medications used in animals to treat or alleviate disease conditions. The drug groups focused in Pharmacology I (Fall semester) include: anesthetic agents, sedatives, tranquilizers, autonomic agents, anti-infective drugs (antibacterial, antifungal, antiparasitic, antiviral), and anticancer drugs.
Student Learning Outcomes

By the end of the course, students will be able to:

• Describe how medications are distributed in the animal’s body through the study of the drug’s pharmacokinetics of drug absorption, distribution, metabolism, and excretion.
• Describe how medications affect the autonomic nervous system receptors and action.
• Recognize the major agents used in the veterinary practice of anesthesiology.
• Be familiar with and be able to describe important pharmacologic features of major anesthetic agents and anesthetic adjuncts use in animals.
• Apply their knowledge of anticonvulsant, sedative, tranquilization, and analgesic medications to the use in animals.
• Describe the basic features of treating infectious disease in animals with anti-infective agents such as antibiotics, antifungal, antiviral, and antiparasitic agents.
• Be familiar with and be able to describe important pharmacologic features of drugs used to treat infections in animals.
• Be familiar with and be able to describe regulatory aspects of antimicrobials in animals

Student Evaluation Methods

<table>
<thead>
<tr>
<th>Evaluation Method</th>
<th>Weighting/Points for Each</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test</td>
<td>100</td>
<td>There will be 3 examinations, each worth 33.3% of the course.</td>
</tr>
</tbody>
</table>

Topical Outline/Course Schedule

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time Devoted to Each Topic</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA (see attached course schedule)</td>
<td></td>
<td></td>
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</tbody>
</table>

Syllabus

MBS_933_Syllabus_2017.pdf

Additional Documentation

Additional Comments

This course, VMB 933, has previously been taught in the DVM curriculum. However it must be revised because of a turn-over of course instructors and topics. This course will be renamed "Pharmacology I" to reflect these changes and the spring course, VMB 943 will be renamed Pharmacology II and revised accordingly.

mlnosbis 4/12/2017: This action reflects updated course content. Syllabus is good.

pjharrie - 4/14/2017 - the description has far too many instances of the word 'include' within it. I have also edited the first sentence, as it's not a mini-syllabus, but if that's objectionable, feel free to change it.

ABGS Reviewer Comments:
- No concerns

Course Reviewer Comments

kenuss (Fri, 07 Apr 2017 14:09:03 GMT): Rollback: Rollback as requested, to allow you to update.
kenuss (Fri, 07 Apr 2017 20:13:28 GMT): Rollback: Dr. Papich, I see you have updated VMB 943, but VMB 933 is missing the following: 1) a full syllabus 2) course objectives; 3) learning outcomes. Attachment is also for VMB 943
mgpapich (Mon, 17 Apr 2017 14:46:37 GMT): Title should be: Veterinary Pharmacology I Abbreviated title should be: Pharmacology I

Key: 5527