For Academic Affairs and Research Use Only	
Proposal Number	
CIP Code:	
Degree Code:	

NEW OR MODIFIED COURSE PROPOSAL FORM

[ ] **Undergraduate Curriculum Council**

[X] **Graduate Council**

[X] **New Course, [ ] Experimental Course (1-time offering), or [ ] Modified Course (Check one box)**

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

_____ ENTER DATE...
Department Curriculum Committee Chair

_____ ENTER DATE...
COPE Chair (if applicable)

_____ ENTER DATE...
Department Chair

Jennifer Bouldin 3/3/2023
Head of Unit (if applicable)

_____ ENTER DATE...
College Curriculum Committee Chair

_____ ENTER DATE...
Undergraduate Curriculum Council Chair

Mary Elizabeth Spence 3/3/2023
Office of Accreditation and Assessment
(new courses only)

_____ ENTER DATE...
Graduate Curriculum Committee Chair

Mickey Latour 3/3/2023
College Dean

Len Frey 4/5/23
Vice Chancellor for Academic Affairs

_____ ENTER DATE...
General Education Committee Chair (if applicable)

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1. Contact Person (Name, Email Address, Phone Number)
Jennifer Bouldin
jbouldin@astate.edu
870-972-3079

2. Proposed starting term and Bulletin year for new course or modification to take effect
Fall 2025

Instructions:

Please complete all sections unless otherwise noted. For course modifications, sections with a "Modification requested?" prompt need not be completed if the answer is "No."

3.

	Current (Course Modifications Only)	**Proposed (New or Modified)** *(Indicate "N/A" if no modification)*
Prefix		**DRVM**
Number*		**7382**
Title (include a short title that's 30 characters or fewer)		**Veterinary Pharmacology I**
Description**		**This course covers the basic concepts of pharmacokinetics (drug absorption, distribution, metabolism and excretion) and pharmacodynamics (the action or effects of drugs on living organisms) that underlie the correct use of drugs in veterinary therapeutics.**

***** Confirm with the Registrar's Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*.
**Forty words or fewer (excepting prerequisites and other restrictions) as it should appear in the Bulletin.

4. Proposed prerequisites and major restrictions [Modification requested? Yes/No]
(Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

a. Yes Are there any prerequisites?
   a. If yes, which ones?
      Successful completion of the previous year
   b. Why or why not?
      Continuation of DRVM education

b. **YES** Is this course restricted to a specific major?
   a. If yes, which major? Doctor of Veterinary Medicine

5. Proposed course frequency [Modification requested? Yes/No]
(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, "irregular.") *Not applicable to Graduate courses.*

Enter text...

6. Proposed course type **[Modification requested? Yes/No]**
Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.
Lecture

7. Proposed grade type **[Modification requested? Yes/No]**
What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])
Standard letter

8. No Is this course dual-listed (undergraduate/graduate)?

9. No Is this course cross-listed?
(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross-listed course.)

a. – If yes, please list the prefix and course number of the cross-listed course.
Enter text...

b. – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?
Enter text...

10. Yes Is this course in support of a new program?
a. If yes, what program?
Doctor of Veterinary Medicine

11. No Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)?
a. If yes, which course?
Enter text...

Course Details

12. Proposed outline **[Modification requested? Yes/No]**
(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

	Tentative Lecture Topics / Activities
1	Pharmacology: Sources of Drug Information
2	Pharmacology: Terminology
3	Pharmacology: Dose Units and Calculations
4	Pharmacology: Solutions and Infusion Calculations
5	Drug Absorption: Dose Forms and Routes of Administration
6	Drug Absorption: Physiochemical Factors, pH and pKa
7	Drug Absorption: Bioavailability
8	Drug Distribution: Volume of Distribution
9	Drug Distribution: Plasma Protein-Tissue Binding: Specific Areas
10	Drug Metabolism: Drug Biotransformation I
11	Drug Metabolism: Drug Biotransformation II
12	Drug Elimination: Half-life and Clearance
13	Drug Elimination: Drug Excretion I
14	Drug Elimination: Drug Excretion II
15	Drug Dosage Schedules I
16	Drug Dosage Schedules II
17	Clinical Pharmacology: Drug-Drug Interaction
18	Clinical Pharmacology: Adverse Drug Reactions
19	Clinical Pharmacology: Legal Aspects of Veterinary Pharmacology
20	Pharmacodynamics: Drug Receptors
21	Pharmacodynamics: Non-Receptor Targets
22	CNS – ANS Review
23	Cholinergics
24	Cholinergic Blockers
25	Adrenergics
26	Adrenergic Blockers
27	Serotonin & Dopamine
28	Amino Acid Neurotransmitters
29	CNS: Voltage-Gated Ion Channels
30	CNS – ANS Review Session

13. Proposed special features **[Modification requested? Yes/No]**
(e.g. labs, exhibits, site visitations, etc.)
Enter text...

14. Department staffing and classroom/lab resources
College of VM new staffing and resources
a. Will this require additional faculty, supplies, etc.?
DRVM Faculty & supplies

15. No Does this course require course fees?

If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.

Justification

Modification Justification (Course Modifications Only)

16. Justification for Modification(s)

New Course Justification (New Courses Only)

17. Justification for course. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

Students will learn basic concepts of pharmacokinetics (drug absorption, distribution, metabolism and excretion) and pharmacodynamics (the action or effects of drugs on living organisms).

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

General education for DRVM students

c. Student population served.

DRVM students

d. Rationale for the level of the course (lower, upper, or graduate).

Graduate only to fulfill requirements of DRVM program

Assessment

Assessment Plan Modifications (Course Modifications Only)

18. YES Do the proposed modifications result in a change to the assessment plan?

If yes, please complete the Assessment section of the proposal

Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is "Yes")

19. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

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

20. Considering the indicated program-level learning outcome/s (from question #19), please fill out the following table to show how and where this course fits into the program's continuous improvement assessment process.

For further assistance, please see the 'Expanded Instructions' document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.

Comprehensively, the Doctor of Veterinary Medicine program will be assessed through successful completion of licensure/board examinations. Formatively, this program's assessment plan will be constructed by the school's Dean and faculty with the assistance of the Office of Assessment and Accreditation.

Program-Level Outcome 1 (from question #19)	Type outcome here. What do you want students to think, know, or do when they have completed the course?
Assessment Measure	Please include direct and indirect assessment measure for outcome.
Assessment Timetable	What semesters, and how often, is the outcome assessed?
Who is responsible for assessing and reporting on the results?	Who (person, position title, or internal committee) is responsible for assessing, evaluating, and analyzing results, and developing action plans?

(Repeat if this new course will support additional program-level outcomes)

Course-Level Outcomes

21. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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

1.Describe the basic principles and fundamental concepts of pharmacokinetics as they pertain to the use of drugs in therapy in veterinary medicine.

2.Utilize mechanism of action (pharmacodynamics) of therapeutic agents to predict potential therapeutic use, contraindications to use, appropriate monitoring, and adverse effect profile based on the impact to the structure and function of the animal.

3.Correlate the most appropriate pharmacologic management for a given indication and organ system.

4.Identify the mechanisms, and give examples, of drug-drug, drug-laboratory test, and drug-nutrient interactions.

5.Explain and illustrate the pharmacology of drug receptors and non-receptor targets. Explain the pharmacology of neurotransmitters of the autonomic and central nervous systems. Use this information to predict the pharmacological actions of drugs targeting the nervous system.

The course outcomes described above will be measured by direct means such as written exams and rubrics (assessing papers, presentations, oral exams, etc.) Final measurement instruments will be determined by course faculty.

Bulletin Changes

Instructions

Please visit http://www.astate.edu/a/registrar/students/bulletins/index.dot and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.

***Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**

Paste bulletin pages here...