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*		**7123**
Title (include a short title that's 30 characters or fewer)		**Parasitology**
Description**		**This course teaches parasitology, including etiology, pathogenesis, diagnosis, treatment and control of selected parasitic diseases in animals. Students will learn life cycle biology, transmission strategies, and natural hosts of major parasites.**

***** 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. No Are there any prerequisites?
   a. If yes, which ones?
      Enter text...
   b. Why or why not?
      Students entering DRVM program will have qualified credits.

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.*

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 & Lab

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.)

Class meeting	**Lecture Topic/ Activity**
1	Principles of parasitism/ Overview of the nematode parasites of veterinary importance
2	Gastrointestinal nematodes of dogs and cats: Hookworms (biology, diagnostic morphology, clinical significance, zoonotic potential)
3	Gastrointestinal nematodes of dogs and cats: Ascarids (biology, diagnostic morphology, clinical significance, zoonotic potential)
4	*Gastrointestinal nematodes of dogs and cats: Whipworms &* Capillaria *(biology, diagnostic morphology, clinical significance, zoonotic potential)*
Lab 1 (group A,B,C)	Diagnostic fecal examinations for parasitic infections in companion animal practice

5	Gastrointestinal nematodes of dogs and cats: *Strongyloides stercoralis* (biology, diagnostic morphology, clinical significance, zoonotic potential*)*
6	Gastrointestinal nematodes of dogs and cats: *Physaloptera sp. Spirocerca lupi Ollulanus tricuspis*, (biology, diagnostic morphology, clinical significance, zoonotic potential)
7	Treatment and control of GI nematode parasites in dogs and cats
Parasitology Exam 1	**GI Parasites of Dogs and Cats**
8	Gastrointestinal nematodes of horses: Strongyles and Cyathostomes
9	Gastrointestinal nematodes of horses: Ascarids, Pinworms, *Draschia/Habronema*
10	Treatment and control of GI nematode parasites in horses
Lab 2 (group A,B,C)	Application of Fecal Egg Count procedures for evaluation of dewormer effectiveness and control of parasitic infection in equines
11	Gastrointestinal nematodes of domestic production animals (cattle, sheep, goats, and camelids) *Ostertagia* (cattle), *Haemonchus contortus* (sheep, goats, camelids), other Trichostrongylid species of minor importance.
12	Treatment and control of GI nematode parasites in domestic production animals
13	Gastrointestinal parasites of swine (biology, clinical significance, treatment & control) *Ascaris suum*, *Trichuris suis, Oesophagostomum* sp.
14	Gastrointestinal parasites of poultry (biology, clinical significance, treatment & control) *Ascardia, Heterakis, Capillaria*.
Parasitology Exam 2	**GI Parasites of Production Animals (Horses, Cattle, Sheep, and Goats, Swine and Poultry)**
15	Nematode parasites of the respiratory system (dogs and cats, domestic livestock)
16	Heartworm infection & disease in dogs (biology, clinical significance, & prophylaxis)
17	Heartworm infection & disease in dogs (diagnostic issues, sensitivity, specificity, predictive value)
18	Heartworm infection & disease in dogs (options for treatment)
LAB 3 (group A,B,C)	Heartworm diagnostics (microfilariae examination, serology for adult heartworm antigen)
19	Heartworm infection and disease in cats (biology, clinical significance, diagnosis & management)
20	Nematode parasites of the urinary tract; eyes, integumentary, and central nervous systems. (*Dioctophyma renale*, *Thelazia* sp., *Onchocerca* sp., *Paraelaphostrongylus tenuis* as an agent of neurologic disease in camelids
Parasitology Exam 3	**Parasites of the Respiratory System, Heartworms, and Miscellaneous Nematodes of the Urinary tract, Integumentary, and Central Nervous Systems**
21	Overview of the Arthropoda in companion and production animals
22	Ticks (3 host biology; veterinary taxa & vector potential); Mites (fowl/rodent hosts; livestock *Psoroptes-Chorioptes)*
23	Mites (*Otodectes, Sarcoptes*, *Demodex, Cheyletiella);* Sucking & Chewing Lice
24	Fleas (biology, clinical significance, treatment, control)

25	Mosquitos, Midges, Horse flies ((biology, clinical significance, treatment, control)
26	Filth, Flesh, & Bot flies (biology, clinical significance, treatment, control)
Parasitology Exam 4	**Selected Arthropod Parasites of Veterinary Importance**
27	Overview of tapeworm parasites of veterinary importance (tapeworms acquired from eating prey; tapeworms acquired from ingesting arthropods)
28	Cyclophyllidian tapeworms of dogs and cats (*Taenia, Echinococcus, Mesocestoides*, *Dipylidium*)
29	Cyclophyllidian tapeworms of domestic livestock (*Anoplocephala, Monezia*)
30	Pseudophyllian tapeworms infection dogs and cats/ Overview of Trematode parasites of veterinary importance
31	Trematode parasites infecting dogs and cats (lifecycle biology, clinical presentation, diagnostics and radiographic imaging, treatment, control & prevention, zoonotic considerations) *Paragonimus, Alaria* sp.*, Platynosum* sp.*, Nanophytes salminocola*
32	Trematode parasites infecting livestock (*Fasciola*, *Paramphistomum*, *Dicrocoelium*)
33	Clinically important Acanthocephalan parasites in companion and production animals
Parasitology Exam 5	**Veterinary Important Tapeworms, Trematodes, and Acanthocephalan Parasites**
34	Overview of protozoan parasites of veterinary importance; Gastrointestinal protozoa of dogs and cats (*Giardia*; *Tritrichomonas* in cats; intestinal coccidia: *Cystoisospora* spp,
35	Gastrointestinal protozoa of domestic livestock *Cryptosporidium* , intestinal coccidia: *Eimeria* spp. *Tritrichomonas foetus* as a repro issue in cattle)
36	Overview of the tissue dwelling coccidia (biology, clinical significance)
37	*Toxoplasma gondii:* clinical importance in host populations and zoonotic significance
38	*Neospora caninum:* clinical importance, economic significance, and management in domestic livestock production
39	*Sarcocystis neurona,* biology, diagnosis, and clinical significance for equine herd health.
40	Protozoa in the circulatory and lymphatic systems (*Leishmania infantum*, Trypanosoma *cruzi*)
41	Protozoa in the circulatory system (*Hepatazoon canis*, *Babesia* sp., *Cytauxzoon felis*)
42	Review of Protozoan parasites
43	Immunologic mechanisms of parasitic disease
Parasitology Exam 6 (Final)	**Veterinary Important Protozoan Parasites**

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)

Enter text...

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 should be able to understand parasitology, know major classes of parasites and their life cycles.

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 phenomenon of parasitism compared to other symbiotic relationships.

2. Identify the major taxa of parasitism from the Phyla Acanthocephala, Arthropoda, Nematoda, Platyheminthes, and the Kingdom Protista.

3. Know the names, life cycles, hosts, and relative importance of common parasites in companion and domestic production animals.

4. Apply basic knowledge of modes and patterns of transmission and use of anthelmintics and parasiticides to solve animal health problems associated with parasitism.

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...