APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted to UCCC Mail Stop 9702 (281 Garner Hall), Phone: 325-9410.

College Veterinary Medicine **Department:** Pathobiology and Population Medicine

Contact Person: Carla Huston **Mail Stop:** 9825 **E-mail:** huston@cvm.msstate.edu

Nature of Change: Modification **Date Initiated:** 3/4/24

Current Degree Program Name: Doctor of Veterinary Medicine

Current Major: _____

Current Concentration(s): _____

Current Campus(es): Starkville

New Degree Program Name: _____ **Effective Date:** _____

Semester	Year
Summer	2025

Proposed Major: _____

Proposed Concentration(s): _____ **Proposed Campus(es):** Starkville

Summary of Proposed Changes:

As a requirement for 8 hours of practicum in Phase II of the veterinary degree program, dual-degree DVM/PhD students would be able to choose to complete one CVM 8294 Enhanced Clinical Research Practicum in place of one CVM 5294 Enhanced Clinical Practicum experience which was approved on October 21,2022. A new course proposal form for CVM 8294 is also being submitted at this time.

Approved: **Date:**

WB Epperson — 4/10/2024

Department Head

Director of Academic Quality — 4/15/2024

Assoc. Dean Academic Affairs

Chair, College or School Curriculum Committee — 04/01/2024

Approved

Nick Frank — Digitally signed by Nicholas Frank, DVM, PhD, DACVIM Date: 2024.04.20 07:51:47 -04'00'

Dean of College or School

Dana Pomfret - Dir Acd. Quality 4/23/2024

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

DEGREE MODIFICATION OUTLINE FORM

Use the chart below to make modifications to an existing undergraduate degree outline. If any General Education (Core) course is acceptable in the category, please indicate by saying "any Gen Ed course". There is no need to type in the whole list. All deleted courses and information should be shown in *italics* and all new courses and information in **bold**. Include the course prefix, number, and title in both columns. Expand this table as needed.

CURRENT Degree Description	PROPOSED Degree Description
Degree: Doctor of Veterinary Medicine (DVM) Major: Concentration:	Degree: Doctor of Veterinary Medicine (DVM) Major: Concentration:
The professional curriculum is divided into two phases- Phase I (DVM 1 and DVM 2 years) and Phase 2, (DVM 3 and DVM 4 years). Phase 1 is conducted in a lecture/lab format. Phase 2 is conducted in a clinical and elective format. During Phase 2, students participate in nineteen required rotations. In these rotations students actively participate in the clinical diagnosis and management of patients admitted to the Animal Health Center and affiliated sites. During the final year (DVM4) students complete 10 core courses (totaling 33 credits) and will fulfill the remainder of their required 46 credits with electives. The options fort these electives include: elective clinical rotations, externships experiences, small group or discussion based courses and directed individual study (DIS) opportunities. In essence, each student, working closely with a faculty advisor, designs a schedule which most uniquely meets the student's needs and career preferences. Conducted in an experiential learning mode, the clinical rotations and many of the electives continue to make the student partly responsible for their own education. The clinical cases or elective courses provide the environment for continued student growth and development.	The professional curriculum is divided into two phases- Phase I (DVM 1 and DVM 2 years) and Phase 2, (DVM 3 and DVM 4 years). Phase 1 is conducted in a lecture/lab format. Phase 2 is conducted in a clinical and elective format. During Phase 2, students participate in nineteen required rotations. In these rotations students actively participate in the clinical diagnosis and management of patients admitted to the Animal Health Center and affiliated sites. During the final year (DVM4) students complete 10 core courses (totaling 33 credits) and will fulfill the remainder of their required 46 credits with electives. The options fort these electives include: elective clinical rotations, externships experiences, small group or discussion based courses and directed individual study (DIS) opportunities. In essence, each student, working closely with a faculty advisor, designs a schedule which most uniquely meets the student's needs and career preferences. Conducted in an experiential learning mode, the clinical rotations and many of the electives continue to make the student partly responsible for their own education. The clinical cases or elective courses provide the environment for continued student growth and development.

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
<u>Year 4 (DVM 4) Core Clinical Rotations</u> CVM 5282 Ambulatory/Large Animal Primary Care CVM 5301 Clinical Pathologic Conf CVM 5314 Small Animal Emerg & Critical Care Medicine CVM 5414 Small Animal Internal Med CVM 5292 Flowood/MVRDL Externship CVM 5364 Veterinary Neurology/ Neurosurgery Rotation CVM 5316 Specialty Medicine Rotation CVM 5332 Shelter Medicine Spay/Neuter Rotation *CVM 5294 Enhanced Clinical Practicum* *CVM 5294 Enhanced Clinical Practicum (repeated once)*	33	<u>Year 4 (DVM 4) Core Clinical Rotations</u> CVM 5282 Ambulatory/Large Animal Primary Care CVM 5301 Clinical Pathologic Conf CVM 5314 Small Animal Emerg & Critical Care Medicine CVM 5414 Small Animal Internal Med CVM 5292 Flowood/MVRDL Externship CVM 5364 Veterinary Neurology/ Neurosurgery Rotation CVM 5316 Specialty Medicine Rotation CVM 5332 Shelter Medicine Spay/ Neuter Rotation **CVM 5294 Enhanced Clinical Practicum OR CVM 8294 Enhanced Clinical Research Practicum** **CVM 5294 Enhanced Clinical Practicum**	33

Elective Options	Min of 13	**OR CVM 8294 Enhanced Clinical Research Practicum (repeated once)** Elective Options	Min of 13
Total DVM 4 Credits Required (minimum) Core plus electives)	46	Total DVM 4 Credits Required (minimum) Core plus electives)	46
Total Hours in Degree Program	171	Total Hours in Degree Program	171

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ENHANCED CLINICAL RESEARCH PRACTICUM: FORMATIVE EVALUATION

To be completed within the first week of the ECRP

Student Name: Click or tap here to enter text. Student Year: Choose an item.

Dates Present: Click or tap here to enter text.

Evaluator and Title: Click or tap here to enter text. Date of evaluation: Click or tap here to enter text.

Student performance will be evaluated using the following scale:

Novice: the minimum expectation for entry to research program

Advanced Beginner: developing competence

Competent: expectation for day-one DVM research associate position

Proficient: aspirational expectation after some time in research field of study

U: Not observed or not applicable to the rotation

At this point in their DVM/PhD program, I evaluate this student's ability as:

Novice to Advanced Beginner		Advanced Beginner to Competent		Competent to Proficient		Proficient
☐	☐	☐	☐	☐	☐	☐

	Significant Improvement Needed	Performance Below Expectation	Expected Performance	Performance Exceeding Expectations	Excellent/ Superior Performance
Professionalism and Interpersonal Skills	☐	☐	☐	☐	☐
Communication Skills	☐	☐	☐	☐	☐
Contribution and Participation	☐	☐	☐	☐	☐
Knowledge	☐	☐	☐	☐	☐
Research Skills	☐	☐	☐	☐	☐

Please provide any further comments of your initial impression of the student. Please be as specific as possible and provide examples.

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ENHANCED CLINICAL RESEARCH PRACTICUM: SUMMATIVE EVALUATION

Student Name: Student Year: Choose an item.

Dates present:

Evaluator and Title: Date of evaluation:

My overall evaluation of this student for this Enhanced Clinical Research Practicum is to:

☐ **PASS** ☐ **FAIL**

Student performance will be evaluated using the following scale:

Novice: the minimum expectation for entry to research program

Advanced Beginner: developing competence

Competent: expectation for day-one research associate position

Proficient: aspirational expectation after some time in research field of study

U: Not observed or not applicable to the rotation

Professionalism and Interpersonal Skills

General	Novice to Advanced Beginner	Advanced Beginner to Competent	Competent to Proficient	Proficient	Not Observed/ Not Applicable
Professional dress and appearance	☐ ☐	☐ ☐	☐ ☐	☐	☐
Takes responsibility for their own actions	☐ ☐	☐ ☐	☐ ☐	☐	☐
Interacts respectfully with mentor, staff and peers	☐ ☐	☐ ☐	☐ ☐	☐	☐
Student is prepared, responsible and dependable and demonstrates a high level of maturity	☐ ☐	☐ ☐	☐ ☐	☐	☐
Respectful and empathetic towards co-workers from various cultural, socioeconomic and educational backgrounds	☐ ☐	☐ ☐	☐ ☐	☐	☐
Research ethical awareness is shown through appropriate questioning and discussions, uses diplomacy in implementing solutions	☐ ☐	☐ ☐	☐ ☐	☐	☐
Adaptable to changing schedules or environments	☐ ☐	☐ ☐	☐ ☐	☐	☐
Ability to respond and assist in emergencies, conflict, and other stressful situations	☐ ☐	☐ ☐	☐ ☐	☐	☐
Displays motivation to learn with enthusiasm and perseverance	☐ ☐	☐ ☐	☐ ☐	☐	☐
Displays life-long learning characteristics with commitment and dedication	☐ ☐	☐ ☐	☐ ☐	☐	☐

Communication	Novice to Advanced Beginner	Advanced Beginner to Competent	Competent to Proficient	Proficient	Not Observed/ Not Applicable
Demonstrates effective, accurate, timely and thorough verbal communication skills with others which promotes effective research and/or teamwork	☐ ☐	☐ ☐	☐ ☐	☐	☐
Demonstrates effective, accurate and timely written communication skills which meets the needs of the research program	☐ ☐	☐ ☐	☐ ☐	☐	☐

Contribution & Participation	Novice to Advanced Beginner	Advanced Beginner to Competent	Competent to Proficient	Proficient	Not Observed /Not Applicable
Assists others and displays positive teamwork skills	☐ ☐	☐ ☐	☐ ☐	☐	☐
Keeps laboratory and/or work areas orderly	☐ ☐	☐ ☐	☐ ☐	☐	☐
Accepts instruction and is receptive of constructive feedback	☐ ☐	☐ ☐	☐ ☐	☐	☐
Participates regularly in research discussions and responds effectively to questions	☐ ☐	☐ ☐	☐ ☐	☐	☐
Provides organized, complete and concise research reviews and presentations	☐ ☐	☐ ☐	☐ ☐	☐	☐
Punctual and engaged in project	☐ ☐	☐ ☐	☐ ☐	☐	☐

Please comment on the students overall interpersonal skills & professionalism, including their strengths and weakness. Please be as specific as possible and provide examples.

Click or tap here to enter text.

Knowledge

	Novice to Advanced Beginner	Advanced Beginner to Competent	Competent to Proficient	Proficient	Not Observed/ Not Applicable
Exhibits knowledge of basic sciences and an understanding of concepts pertaining to the research	☐ ☐	☐ ☐	☐ ☐	☐	☐
Ability to recall and apply information to current research and/or clinical cases	☐ ☐	☐ ☐	☐ ☐	☐	☐
Describes detailed pathophysiology of the condition or disease process being studied	☐ ☐	☐ ☐	☐ ☐	☐	☐
Identifies, evaluates and presents relevant, current literature and other sources to supplement research project.	☐ ☐	☐ ☐	☐ ☐	☐	☐

Please comment on the students overall subject knowledge, including their strengths and weaknesses. Please be as specific as possible and provide examples.

Click or tap here to enter text.

Research Skills

General	Novice to Advanced Beginner	Advanced Beginner to Competent	Competent to Proficient	Proficient	Not Observed/Not Applicable
Develops relevant research questions	☐ ☐	☐ ☐	☐ ☐	☐	☐
Ability to formulate hypotheses	☐ ☐	☐ ☐	☐ ☐	☐	☐
Performs accurate data collection	☐ ☐	☐ ☐	☐ ☐	☐	☐
Identifies appropriate diagnostic tests and provides accurate interpretation of results	☐ ☐	☐ ☐	☐ ☐	☐	☐
Synthesizes information from multiple sources	☐ ☐	☐ ☐	☐ ☐	☐	☐
Performs appropriate data analysis	☐ ☐	☐ ☐	☐ ☐	☐	☐
Critically evaluates the literature	☐ ☐	☐ ☐	☐ ☐	☐	☐

Preventative Care & Biosecurity	Novice to Advanced Beginner	Advanced Beginner to Competent	Competent to Proficient	Proficient	Not Observed /Not Applicable
Proactively demonstrates comprehensive and current knowledge of communicable disease prevention and control	☐ ☐	☐ ☐	☐ ☐	☐	☐
Demonstrates accurate knowledge of preventative health and wellness programs	☐ ☐	☐ ☐	☐ ☐	☐	☐
Comprehensive understanding of zoonotic or biohazard threats	☐ ☐	☐ ☐	☐ ☐	☐	☐
Identifies the proper biohazard level of research	☐ ☐	☐ ☐	☐ ☐	☐	☐
Demonstrates appropriate handwashing, instrument care, and personal protective equipment	☐ ☐	☐ ☐	☐ ☐	☐	☐
Understands and follows facility/practice protocols	☐ ☐	☐ ☐	☐ ☐	☐	☐

Technical Skills * *As defined by research plan submitted by student	Novice to Advanced Beginner	Advanced Beginner to Competent	Competent to Proficient	Proficient	Not Observed/ Not Applicable
Skill #1:Click or tap here to enter text.	☐ ☐	☐ ☐	☐ ☐	☐	☐
Skill #2:Click or tap here to enter text.	☐ ☐	☐ ☐	☐ ☐	☐	☐
Skill #3:Click or tap here to enter text.	☐ ☐	☐ ☐	☐ ☐	☐	☐
Skill #4:Click or tap here to enter text.	☐ ☐	☐ ☐	☐ ☐	☐	☐
Skill #5:Click or tap here to enter text.	☐ ☐	☐ ☐	☐ ☐	☐	☐

Comments

Please comment on the student's overall research skills and mastery, including their research strengths and weaknesses. Please be as specific as possible and provide examples.
Click or tap here to enter text.

General Comments

	Novice to Advanced Beginner	Advanced Beginner to Competent	Competent to Proficient	Proficient
At this point in their studies, I evaluate this student's ability as:	☐ ☐	☐ ☐	☐ ☐	☐

Please provide any further comments of your overall impression of the student. Please be as specific as possible and provide examples.
Click or tap here to enter text.

Please provide any comments, thoughts or ideas on how our program or evaluation can be improved
Click or tap here to enter text.

Feedback & Attendance	Yes	No
Did you and/or others provide ongoing feedback during this rotation?	☐	☐
Did you meet with this student to discuss their performance and their final evaluation?	☐	☐
Was this student present for research activities a minimum 50 hours per week during each week of the rotation?	☐	☐

	0	1	2	3	Other
Absences during this rotation	☐	☐	☐	☐	☐

Please comment if there were unexplained absences. Click or tap here to enter text.

April 1, 2024

University Committee on Courses and Curricula
279 Garner Hall
MS State, MS 39762

Dear UCCC,

This letter from the CVM Curriculum Committee supports CVM 8294: Enhanced Clinical Research Practicum. The practicum will occur at an approved research facility or alternate site throughout the US where students will participate in veterinary research-related activities to enhance their understanding of previously learned medical and/or research concepts and skills. As a requirement for 8 hours of practicum in Phase II of the veterinary degree program, dual-degree DVM/PhD students would be able to choose to complete one CVM 8294 Enhanced Clinical Research Practicum in place of one CVM 5294 Enhanced Clinical Practicum. A degree modification is also being submitted currently to allow this course substitution.

The curriculum committee chair, Dr. Alicia Olivier, can be contacted by phone at 662-325-2167 or via email at alicia.olivier@msstate.edu.

Thank you,

CVM Curriculum Committee

Alicia Olivier
Alicia Olivier (Apr 1, 2024 09:29 CDT)

Chair

GEORGE HOWELL III
GEORGE HOWELL III (Apr 1, 2024 09:40 CDT)

Vice Chair

Jacob M Shirley
Jacob M Shirley (Apr 1, 2024 13:48 CDT)

Member

Robin Fontenot (Apr 1, 2024 14:10 CDT)

Member

hossam Abdelhamed
hossam Abdelhamed (Apr 1, 2024 09:44 CDT)

Member

Christine E. Bryan
Christine E. Bryan (Apr 1, 2024 11:12 CDT)

Member