

University of Georgia Athens, Georgia 30602 univcouncil@uga.edu www.uga.edu

University Council

October 12, 2018

UNIVERSITY CURRICULUM COMMITTEE - 2018-2019

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Dear Colleagues:

The attached proposal from the College of Veterinary Medicine for a new Area of Emphasis in Integrative Biomedical Physiology under the major in Comparative Biomedical Sciences (M.S., Non-Thesis) will be an agenda item for the October 19, 2018, Full University Curriculum Committee meeting.

Sincerely,

John Maerz, Chair University Curriculum Committee

cc: Interim Provost Libby Morris Dr. Rahul Shrivastav

## **PROPOSAL FOR AREA OF EMPHASIS**

- 1. School/College: College of Veterinary Medicine
- 2. Department/Division: Physiology and Pharmacology
- 3. Major: Comparative Biomedical Sciences (M.S., Non-Thesis)
- 4. Major Requirements: See below
- 5. Area of Emphasis Title: Integrative Biomedical Physiology
- 6. Proposed starting date: Fall 2019
- 7. Area of Emphasis Description: See below

Current Degree Requirements for Comparative Biomedical Sciences (M.S. Non-Thesis)

Core: (12 credits)		
VETM 8001 – Research Communications (1 credit)		
GRSC 8550 – Responsible Conduct of Research (1 credit)		
10 credits additional graduate only courses		
Concentration courses: All 6000-level or higher coursework in the area of study		
Electives (6 credits): Related 6000-level or higher courses outside of the department		
Oral Exam based on Written Report		
Minimum Total Credit Hours: 30		

In lieu of a thesis, the student must write a written report, such as a literature review, based on the material covered in the area of concentration.

#### Area of Emphasis in Integrative Biomedical Physiology

#### **Program Description**

The Department of Physiology and Pharmacology in the College of Veterinary Medicine proposes an Area of Emphasis in Integrative Biomedical Physiology to be offered under the non-thesis option of the M.S. in Comparative Biomedical Sciences. This area of emphasis under the non-thesis option is intended for graduate students who plan to pursue professionally-oriented careers outside of academia and are interested in advanced study in comparative biomedical physiology and pharmacology. The area of emphasis is designed to provide foundational knowledge and professional skills that will prepare students for careers in a broad range of biomedical professions such as veterinary medicine, human medicine, biomedical engineering, and biomedical or diagnostic technology.

## **TABLE 1: Proposed Curriculum**

Core Foundational Knowledge Courses (10 hours)	Core Professional Skills (7 hours)	Sample Electives (minimum of 13 hours; 6 hours from outside Dept)
VPHY 7111, Principles of	VETM 8001, Research	VPHY 6XXX, Physiology of
Physiology I (4 hours)	Communications (1 hour)	Disease Mechanisms (3 hours)
		(NEW)
VPHY 7112, Principles of	GRSC 8550, Responsible	VPHY 6XXX, Neuro-endocrine
Physiology II (3 hours)	Conduct of Research (1 hour)	Physiology (3 hours) (NEW)
VPHY 7XXX Physiology	VPHY 6930, Research Methods	VPHY 8960, Molecular
Capstone (3 hours) (NEW)	(3 hours)	Toxicology (3 hours)
	VPHY 8900, Physiology-	VPHY 8400, Neuro-physiology
	Pharmacology Seminar (2	(3 hours)
	hours)	
		EHSC 7490, Principles of
		Toxicology (3 hours)
		PHRM 8020, Molecular
		Pharmacology of Disease and
		Therapeutics (4 hours)
		VBDI 7180-7180L,
		Comparative Microscopic
		Anatomy of Domestic Animals
		(3 hours)
		BINF(BCMB) 6005, Essential
		Computing Skills for Biologists
		(2 hours)

Blue highlighted cells represent Area of Emphasis core courses; Gold highlighted cells represent M.S. in CBS core requirements;

## **TABLE 2: Sample Program of Study**

FALL SEMESTER	SPRING SEMESTER	
VPHY 7111, Principles of Physiology I (4 hours)	VPHY 7112, Principles of Physiology II (3 hours)	
VPHY 6930, Research Methods (3 hours)	PHRM 8020, Molecular Pharmacology of Disease	
	and Therapeutics (4 hours)	
VETM 8001, Research Communications (1 hour)	VBDI 7180-7180L, Comparative Microscopic	
	Anatomy of Domestic Animals (3 hours)	
VPHY 8900, Physiology-Pharmacology Seminar	VPHY 7XXX Capstone Project (3 hours) (NEW)	
(1 hour)		
VPHY 6XXX Physiology of Disease Mech. (3	VPHY 8900 Physiology-Pharmacology Seminar	
hours) (NEW)	(1 hour)	
GRSC 8550, Responsible Conduct of Research (1		
hour)		
EHSC 7490, Principles of Toxicology (3 hours)		
Total credit hours 16	Total credit hours 14	
Blue highlighted cells represent AE core courses: Gold highlighted cells represent M.S. in CBS core		

Blue highlighted cells represent AE core courses; Gold highlighted cells represent M.S. in CBS core requirements

# **Approvals on File**

**Proposal:** New Area of Emphasis in Integrative Biomedical Physiology under the major in Comparative Biomedical Sciences (M.S., Non-Thesis)

**College:** College of Veterinary Medicine

Proposed Effective Term: Fall 2019

## School/College:

- Physiology and Pharmacology Department Head, Dr. Gaylen Edwards, 6/1/2018
- College of Veterinary Medicine Dean, Dr. Lisa Nolan, 8/21/2018

## Graduate School:

• Graduate School Dean, Dr. Suzanne Barbour, 8/30/2018