MISSISSIPPI STATE UNIVERSITY™

UNIVERSITY COMMITTEE ON COURSES AND CURRICULA

A MEMORANDUM

DATE: October 8, 2018

TO: UCCC Members

FROM: Dr. Dana Pomykal Franz, Chair

SUBJECT: October 19, 2018 Meeting

Enclosed are the minutes from the meeting on September 7, 2018 and the agenda and proposals for the meeting on **Friday, October 19, 2018 beginning at 1:30 p.m.** The meeting will be held in **Room 324 of the Student Union**. Please contact the UCCC office if you are unable to attend.

Thank you.

Enclosures: September 7, 2018 Meeting Minutes
Course/Curriculum Proposals

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AGENDA
UNIVERSITY COMMITTEE ON COURSES AND CURRICULA
October 19, 2018

1. **Welcome**
2. **Approval of minutes**
3. **Course proposals by college/school:**

AGRICULTURE AND LIFE SCIENCES

+Online/Distance	ADS 8162	Monogastric Nutrition
Addition +Online/Distance	AEC 4363/6363	Economics of Precision Agriculture
Addition	AELC 4613/6613	Teaching Agricultural Mechanics
+Online/Distance	FDM 2553	Introduction to Fashion Industry
Addition	FDM 8100	Creative Component Project in Fashion Design and Merchandising
Modification +Online/Distance	HDFS 8413	Issues in Family Science
Modification	HS 4702	Research and Application in Human Sciences
Modification	PSS 4373/6373	Geospatial Agronomic Management

ARTS AND SCIENCES

+Online/Distance	BIO 1123	Animal Biology
Addition	FL 4503	Ghost Tales from China and Japan, 14th – 19th Centuries
Addition	FLJ 3153	Japanese V

BUSINESS

+Online/Distance	BL 2413	The Legal Environment of Business
+Online/Distance	BL 4273/6273	International Business Law
+Online/Distance	MGT 3823	Socially Responsible Leadership
+Online/Distance	MKT 4113	Personal Selling
+Online/Distance	MKT 4413	Consumer Behavior

EDUCATION

Addition	MU 3681	Opera Production
+Online/Distance	MU 8402	Advanced Instrumental Arranging

ENGINEERING

Addition +Online/Distance +Gulf Coast	ECE 4943/6943	Automation, Data Acquisition, and PLDs
Modification +Gulf Coast	ECE 8633	Control of Distributed Energy Resource Systems

FOREST RESOURCES

Addition	WFA 4633/6633	Problem Solving in Conservation Biology
Addition	WFA 4881/6881	Current Topics in Conservation Biology
+Online/Distance	WFA 8433	Natural Resource and Conservation Decision Making

4. Degree proposals by college/school

AGRICULTURE AND LIFE SCIENCES

Modification	BS	Animal and Dairy Science

EDUCATION

Name Change	Ph.D.	Counselor Education

FOREST RESOURCES

Modification	BS	Wildlife, Fisheries & Aquaculture

University Committee on Courses and Curricula
Mississippi State University
September 7, 2018

Members Present:	Amy Adkerson, Tracey Baham, John Buol, Randy Campbell, Russell Carr, Cody Coyne, Amy Crumpton, Padmanava Dash, Dana Franz, Charles Freeman, Trey Howell, Kevin Hunt, Pat Matthes, Qingmin Meng, Rob Moore, Emily Owen, Prem Parajuli, Tommy Parker, Andy Perkins, Tommy Phillips, Matthew Priddy, Darrell Sparks, Brad Trinkle, Jacob Tschume, Jenny Turner, Erica Waldman, Robert Wolverton, Chien Yu, Matthew Zimmerman
Excused:	Seamus Freyne, Pat Matthes, Kathy Sherman-Morris, Jeff Winger
Absent:	Arman Borazjani, Joshua Hartley
Guests:	Terry Dale Cruse, Deborah Eakin, Kiley Forsythe, Dan Gadke, Deborah Munsell, Susan Seal

Franz called the meeting to order at 1:30 p.m. on Friday, September 7, 2018 in the Trotter Room of the Center for Advanced Vehicular Systems in the Research Park. Franz welcomed the new UCCC members and asked that all members introduce themselves. Franz announced that the UCCC streamlined online forms were implemented in July, and the new distance questions on the revised forms are aligned with the Quality Matters distance standards. Franz also announced the 2018-2019 Guide and Format is now posted on the UCCC website.

Crumpton moved to approve the April 26, 2018 UCCC minutes. Parajuli seconded the motion. The April 26, 2018 UCCC minutes were unanimously approved. Coyne moved to approve the June 18, 2018 UCCC minutes. Hunt seconded the motion. The June 18, 2018 UCCC minutes were unanimously approved.

Carr moved to approve the addition of the MPAS in Physician Assistant Studies and the additions of PAS 5012, PAS 5013, PAS 5016, PAS 5022, PAS 5023, PAS 5026, PAS 5102, PAS 5103, PAS 5104, PAS 5107, PAS 5112, PAS 5113, PAS 5202, PAS 5203, PAS 5204, PAS 5208, PAS 5213, PAS 5223, PAS 5301, PAS 5302, PAS 5303, PAS 5305, PAS 5308, PAS 5312, PAS 5313, PAS 5321, PAS 5322, PAS 5323, PAS 5325, PAS 5331, PAS 5343, and PAS 5353. The subcommittee that reviewed the program and course proposals made the following report: there were not any concerns about the program proposal; for PAS 5012, questioned if exams 1-3 are cumulative given the increasing value of each and if so should that be indicated in the syllabus, are text books required or suggested, and there are no letter grade equivalents for percentages indicated in the syllabus; for PAS 5013, a link is needed or information needs to be included in the syllabus for Meridian student support services, syllabus refers to LSU under Evaluation/Absences, and there are no letter grade equivalents for percentages indicated in the syllabus; for PAS 5016, the syllabus does not indicate if the exams are cumulative; for PAS 5022, there are no letter grade equivalents for percentages indicated in the syllabus; for PAS 5023, the exams are

cumulative but have the same grade percentages so the subcommittee questioned if the more cumulative exams should be weighted more, there are no letter grade equivalents for percentages in the syllabus; for PAS 5026, there were no concerns; for PAS 5102, there are no letter grade equivalents for percentages in the syllabus; for PAS 5103, there are no letter grade equivalents for percentages in the syllabus, there is a website link before the schedule in the syllabus that seems out of place; for PAS 5104, there were no concerns; for PAS 5107, questioned that since the exams have different percentages values are the exams cumulative or bigger blocks of information, there are no letter grade equivalents for percentages in the syllabus; for PAS 5112, there are no letter grade equivalents for percentages in the syllabus; for PAS 5113, there are no letter grade equivalents for percentages in the syllabus; for PAS 5202, there are no letter grade equivalents for percentages in the syllabus; for PAS 5203, there are no letter grade equivalents for percentages in the syllabus; for PAS 5204, the syllabus provides expectations for attendance and grading consequences of absences but attendance is not a component of the total grade calculation, there are no letter grade equivalents for percentages in the syllabus; for PAS 5208, there are no letter grade equivalents for percentages in the syllabus; for PAS 5213, participation/ attendance is percentage of the total grade for the course but nothing is provided for how participation will be evaluated, and there are no letter grade equivalents for percentages in the syllabus; for PAS 5223, the course competencies and learning objectives are missing, there are no letter grade equivalents for percentages in the syllabus; for PAS 5301, syllabus provides expectations for attendance and grading consequences of absences, but attendance is not a component of the total grade calculation, there are no letter grade equivalents for percentages in the syllabus; for PAS 5302, there are no letter grade equivalents for percentages in the syllabus; for PAS 5303, syllabus provides expectations for attendance and grading consequences of absences but attendance is not a component of the total grade calculation, and there are no letter grade equivalents for percentages in the syllabus; for PAS 5305, the syllabus provides expectations for attendance and grading consequences of absences but attendance is not a component of the total grade calculation, the syllabus uses PYAS instead of PAS, there is no course outline; for PAS 5308, the syllabus provides expectations for attendance and grading consequences of absences but attendance is not a component of the total grade calculation, the syllabus uses PYAS instead of PAS, there is no course outline; for PAS 5312, the course description may need to be expanded to better describe the course; for PAS 5313, the syllabus provides expectations for attendance and grading consequences of absences but attendance is not a component of the total grade calculation, there is no course outline; for PAS 5321, the syllabus provides expectations for attendance and grading consequences of absences but attendance is not a component of the total grade calculation, there is no course outline; for PAS 5322, the syllabus is numbered 6578 instead of 5322, the course outline may need to include more information; for PAS 5323, there is no attendance policy, questioned if a course outline is needed; for PAS 5325, the syllabus provides expectations for attendance and grading consequences of absences but attendance is not a component of the total grade calculation, questioned if a course outline is needed; for PAS 5331, the syllabus provides expectations for attendance and grading consequences of absences but attendance is not a component of the total grade calculation, questioned if a course outline is needed; for PAS 5343, the syllabus provides expectations for attendance and grading consequences of absences but attendance is not a component of the total grade calculation, questioned if a course outline is needed; for PAS 5353, there is no attendance policy, questioned if a course outline is needed. Crumpton moved to pass the MPAS program and course proposals contingent upon the above concerns being addressed. Trinkle seconded the motion. The motion to pass the MPAS program and course proposals contingent was approved unanimously.

Parajuli moved to approve the addition of ADS 2221 Companion Animal Management Laboratory. Crumpton seconded the motion. The subcommittee was concerned about the language that “lack of attendance due to an unexcused absence may impact the class daily grades” and “only partial credit will

be given for late assignments/worksheets." The subcommittee felt this language is vague, and it would be better to clearly state whether there is a penalty and what the penalty is for unexcused absences/late assignments. Hunt moved to pass the addition of ADS 2221 contingent upon the above concern being addressed. Carr seconded the motion. The motion to pass ADS 2221 contingent was approved unanimously.

Campbell moved to approve the modification of ADS 3214 Livestock Growth and Development. Hunt seconded the motion. The subcommittee that reviewed the proposal pointed out that there are only 42 lecture contact hours instead of 45 indicated in the lecture content outline total. Carr moved to pass the modification of ADS 3214 contingent upon the above concern being resolved. Sparks seconded the motion. The motion to pass the modification of ADS 3214 contingent was approved unanimously.

Campbell moved to approve the modification of ADS 4124 Animal Breeding. Hunt seconded the motion. The subcommittee that reviewed the proposal pointed out the syllabus course description mentions a cross listing with GNS, but that cross listing is not in course proposal. Subcommittee members were also concerned there are no makeup quizzes allowed with an excused absence. Coyne moved to pass the modification of ADS 4124 contingent upon the above concerns being addressed. Carr seconded the motion. The motion to pass the modification of ADS 4124 contingent was approved unanimously.

Campbell moved to approved the addition of ADS 4553/6553 Current Literature in Animal and Dairy Science and inclusion of online/distance education to the course. The subcommittee that reviewed the course was concerned that the policy that a "comparable make up quiz or exam would be given for pre-approved excused and those must be made in advance" was not in compliance with AOP 12.09 since all excused absences cannot be anticipated in advance. Carr moved to pass the addition of ADS 4553/6553 and inclusion of online/distance education to the course contingent upon the above concern being addressed. Hunt seconded the motion. The motion to pass the addition of ADS 4553/6553 and the inclusion of online/distance education to the course contingent was approved unanimously.

Campbell moved to approve the modification of ADS 8111 Animal and Dairy Sciences Seminar and the inclusion of online/distance education to the course. Parajuli seconded the motion. UCCC members were concerned the attendance policy was not clear and needs further clarification. Freeman moved to pass the modification of ADS 8111 and the inclusion of online distance education to the course contingent upon the above concern being clarified. Carr seconded the motion. The motion to pass contingent the modification of ADS 8111 and the inclusion of online/distance education to the courses was approved unanimously.

Campbell moved to approve the modification of ADS 8333 Nutritional Biochemistry of Livestock Species and the inclusion of online/distance education to the course. Carr seconded the motion. The subcommittee had no concerns about the proposal. The motion to approve the modification of ADS 8333 and the inclusion of online/distance education to the course was unanimously approved.

Carr moved to approve the addition of online/distance education to Master of Agriculture-Animal and Dairy Science. Hunt seconded the motion. The motion to approve the addition of online/distance education to the Master of Agriculture-Animal and Dairy Science was approved unanimously.

Parajuli moved to approve the addition of online/distance education to PSY 1013 General Psychology, PSY 1021 Careers in Psychology, PSY 3104 Introductory Psychological Statistics, PSY 3314 Experimental Psychology, PSY 3623 Social Psychology, and PSY 4403/6403 Biological Psychology. Campbell seconded

the motion. The subcommittee that reviewed the proposals was concerned that for PSY 3314, Chapter 13 is covered twice in the textbook for the Campus 1 offering and Chapter 12 is skipped, while for Campus 5 Chapter 12 and Chapter 13 are both covered, but this may be a typographical error; for PSY 4403, the names of Chapter 1 in the two syllabi are different. Hartley moved to pass the addition of online/distance education to PSY 1013, PSY 1021, PSY 3104, PSY 3314, PSY 3623, and PSY 4403/6403 contingent upon the above concerns being addressed. The motion to pass contingent was approved unanimously.

Carr moved to approve the addition of online/distance education to the Bachelor of Science in Psychology. Crumpton seconded the motion. The motion to approve the addition of online/distance education to the Bachelor of Science in Psychology was unanimously approved.

Parajuli moved to approve the modification of SO 8223 Quantitative Analysis. Hunt seconded the motion. The motion to approve the modification of SO 8223 Quantitative Analysis was approved unanimously.

Carr moved to approve the modification of EPY 4113/6113 Principles of Behavior Analysis. Parajuli seconded the motion. The subcommittee that reviewed the proposal was concerned that the syllabus mentions that unexcused absences may result in lowered grades but attendance is not parting of the grading scale, the syllabus indicates that late assignments will not be accepted but does not indicate how excused absences may affect that, needs to update the LMS with Canvas in the syllabus, the sentence in Participation that begins with "During course participation . . " is missing a word or phrase, and in the Late Assignments policy it says "incomplete assignments are not accepted" but the policy does not explain what constitutes incomplete. Crumpton moved to pass the modification of EPY 4113/6113 contingent upon the above concerns being addressed. Hunt seconded the motion. The motion to pass the modification of EPY 4113/6113 contingent was approved unanimously.

Carr moved to approve the addition of online/distance education to KI 2213 Emergency Health Care. Parajuli seconded the motion. The subcommittee that reviewed the proposal noted that the proposal initiator needs to update the LMS with Canvas in the syllabus, on page four of the syllabus in the Evaluation and Student Progress Table consider having a separate line for Assignments instead of lumping them with exams, for distance consider expanding the information on how the students will be graded for participation, and there may need to be more information about if exams are proctored or open book. Crumpton moved to pass the addition of online/distance education to KI 2213 contingent upon the above concerns being addressed. Howell seconded the motion. The motion to pass the addition of online/distance education to KI 2213 was approved unanimously.

Parajuli moved to approve the modification of Master of Arts in Teaching (MATS) – Secondary/Alternative Route. Moore seconded the motion. The motion to approve the modification of the MATS – Secondary/Alternative Route was approved unanimously.

Carr moved to adjourn the meeting. Crumpton seconded the motion. The motion to adjourn was approved unanimously. The meeting was adjourned at 3:19 p.m.

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: College of Ag & Life Sciences **Department:** Animal & Dairy Sciences
Contact Person: Jessica Graves **Mail Stop: 9815** **E-mail:** jessica.graves@msstate.edu
Nature of Change: Modification **Date Initiated:** 09/2018 **Effective Date:** 01/2019

Current Degree Program Name: Bachelor of Science
Major: Animal and Dairy Sciences **Concentration:** Science/Veterinary Science
Production Management
Business & Industry

New Degree Program Name: Bachelor of Science
Major: Animal and Dairy Sciences **Concentration:** Pre-Vet/Science
Production Management
Business & Industry

Summary of Proposed Changes:

- Change concentration name from "Science/Veterinary Science" to "Pre-Vet/Science"
- Increase Major Core hours to reflect changes made to a required course.
- Modify the 3+1 requirements for pre-vet students.
- Modify ADS minor course requirements

Approved:	**Date:**
Department Head	14 September 2018
Chair, College or School Curriculum Committee	9.21.18
Dean of College or School	9/21/18
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council(if applicable)	
Chair, Deans Council	

Degree Modification Proposal

1. **CATALOG DESCRIPTION**
   See changes below

2. **CURRICULUM OUTLINE**
   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: Bachelor of Science Major: Animal and Dairy Sciences Concentration: *Science/Veterinary Science*, Business and Industry, or Production Management	Degree: Bachelor of Science Major: Animal and Dairy Sciences Concentration: **Pre-Vet/Science**, Business and Industry, or Production Management.
Animal and Dairy Sciences is a multidisciplinary science that focuses on livestock and companion animal growth, health and safety, as well as food and fiber production. Professionals in the diverse fields of animal and dairy sciences strive to provide healthy and wholesome food as well as quality fiber products to support the growing population. Students in Animal and Dairy Sciences will learn about the newest technologies and experience progressive management strategies that will prepare them to be leaders in agriculture. Joining the Animal and Dairy Sciences will give students hands-on education and experience needed to be successful in areas such as breeding, feeding and nutrition, growth and development, reproductive and lactational physiology, biotechnology, marketing, management, and evaluation as it relates to livestock species. The curriculum is designed to provide students with academic and experiential learning while also allowing them flexibility to tailor their program by taking courses that best prepares and supports their professional goals. Students of the Animal and Dairy Sciences will be challenged to think critically and exercise knowledge of discipline content through scientific writing and presentation. Students pursing veterinary medicine or graduate studies will find the academic setting of the Animal and Dairy Sciences is an ideal fit. Concentrations: *Science/Veterinary Science* Business and Industry Production Management	Animal and Dairy Sciences is a multidisciplinary science that focuses on livestock and companion animal growth, health and safety, as well as food and fiber production. Professionals in the diverse fields of animal and dairy sciences strive to provide healthy and wholesome food as well as quality fiber products to support the growing population. Students in Animal and Dairy Sciences will learn about the newest technologies and experience progressive management strategies that will prepare them to be leaders in agriculture. Joining the Animal and Dairy Sciences will give students hands-on education and experience needed to be successful in areas such as breeding, feeding and nutrition, growth and development, reproductive and lactational physiology, biotechnology, marketing, management, and evaluation as it relates to livestock species. The curriculum is designed to provide students with academic and experiential learning while also allowing them flexibility to tailor their program by taking courses that best prepares and supports their professional goals. Students of the Animal and Dairy Sciences will be challenged to think critically and exercise knowledge of discipline content through scientific writing and presentation. Students pursing veterinary medicine or graduate studies will find the academic setting of the Animal and Dairy Sciences is an ideal fit. Concentrations: **Pre-Vet/Science** Business and Industry Production Management

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English: EN 1103 English Comp I OR EN 1163 Accelerated English Comp I EN 1113 English Comp II OR EN 1173 Accelerated English Comp II	6	English: EN 1103 English Comp I OR EN 1163 Accelerated English Comp I EN 1113 English Comp II OR EN 1173 Accelerated English Comp II	6
Fine Arts (General Education): Any Gen Ed course	3	Fine Arts (General Education): Any Gen Ed course	3
Natural Sciences See Concentration Requirements	9	Natural Sciences See Concentration Requirement	9

Math (General Education): MA 1323 Trigonometry ST 2113 Statistics	6	Math (General Education): MA 1323 Trigonometry **OR MA 1713 Calculus** ST 2113 Statistics	6
Humanities (General Education): Any Gen Ed course	6	Humanities (General Education): Any Gen Ed course	6
Social/Behavioral Sciences (Gen Ed): AEC 2713 or EC 2113 AND Any Gen Ed course	6	Social/Behavioral Sciences (Gen Ed): AEC 2713 or EC 2113 **or EC 2123** AND Any Gen Ed course	6
Major Core Courses	*38*	Major Core Courses	**39**
ADS 1111 Orientation to Animal Science	1	ADS 1111 Orientation to Animal Science	1
ADS 2111 Animal Science Career Planning	1	ADS 2111 Animal Science Career Planning	1
ADS 1113 Animal Science	3	ADS 1113 Animal Science	3
ADS 1121 Animal Science Laboratory	1	ADS 1121 Animal Science Laboratory	1
VS 3014 Anatomy and Physiology	4	**ADS** 3014 Anatomy and Physiology	4
PO 3103 Genetics I	3	PO 3103 Genetics I	3
ADS 3314 Introduction to Meat Science	4	ADS 3314 Introduction to Meat Science	4
ADS 4114 Animal Nutrition	4	ADS 4114 Animal Nutrition	4
ADS 4213 Feeds & Feeding	3	ADS 4213 Feeds & Feeding	3
ADS 4123 Animal Breeding	*3*	**ADS 4124 Animal Breeding**	**4**
ADS 4613 Physiology of Reproduction	3	ADS 4613 Physiology of Reproduction	3
ADS 4611 Practices in Physiology of Reproduction	3 1	ADS 4611 Practices in Physiology of Reproduction	1
Plant and Soil Sciences Elective	3	Plant and Soil Sciences Elective	3
ADS 4000 Experiential Learning ADS 4420 Animal and Dairy Science Internship OR ADS 4440 Research Experience Practicum OR ADS 4520 Livestock Extension Experience	3	Experiential Learning ADS 4420 Animal and Dairy Science Internship OR ADS 4440 Research Experience Practicum OR ADS 4520 Livestock Extension Experience	3
ADS 4221 Capstone in Animal and Dairy Sciences	1	ADS 4221 Capstone in Animal and Dairy Sciences	1
Concentration Courses *Science/Veterinary Science*	*59*	Concentration Courses **Pre-Vet/Science**	**58**
Chemistry Sequence		Chemistry Sequence	
CH 1211 Investigations in Chemistry I &	1	CH 1211 Investigations in Chemistry I &	1
CH 1213 Chemistry I &	3	CH 1213 Chemistry I &	3
CH 1221 Investigations in Chemistry II &	1	CH 1221 Investigations in Chemistry II &	1
CH 1223 Chemistry II	3	CH 1223 Chemistry II	3
Organic Chemistry & Lab Choose one of the following: CH 2503 Elementary Organic Chemistry & CH 2501 Elementary Organic Chemistry Lab CH 4513 Organic Chemistry I & CH 4511 Organic Chemistry Lab I	 *3* *1* *3* *1*	Organic Chemistry & Lab Choose one of the following: CH 2503 Elementary Organic Chemistry & CH 2501 Elementary Organic Chemistry Lab **OR** CH 4513 Organic Chemistry I & CH 4511 Organic Chemistry Lab I	**4**
Biology BIO 3304 General Microbiology BIO 1134 Biology I BIO 1144 Biology II	 4 4 4	Biology BIO 3304 General Microbiology BIO 1134 Biology I BIO 1144 Biology II	 4 4 4

Biochemistry BCH 4013 Principles of Biochemistry OR BCH 4603 General Biochemistry	3	Biochemistry BCH 4013 Principles of Biochemistry OR BCH 4603 General Biochemistry	3
CO 1003 Fundamentals of Public Speaking OR CO 1013 Introduction to Communication	3	CO 1003 Fundamentals of Public Speaking OR CO 1013 Introduction to Communication	3
1 Evaluation Elective[1] *2* Production Elective[2] Science Electives[3] Free Electives	*2-3* *7-8* 12 6-9	Evaluation **& Management** Elective Production Electives Science Electives Free Electives	**2** **8** 12 **6**
[1] *Evaluation Electives: ADS 2101 Equine Conformation and Performance Evaluation, ADS 2122 Advanced Equine Evaluation, ADS 3142 Meats Judging I, ADS 3213 Livestock Growth, Development & Evaluation, ADS 3812 Dairy Cattle Appraisal, ADS 4212 Livestock Evaluation, ADS 4232 Advance Livestock Evaluation, FNH 2112 Food Products Evaluation.* [2] *Production Electives: ADS 2223 Companion Animal, ADS 3223 Horse Management, ADS 4113 Swine Science & ADS 4111 Swine Production and Management Laboratory, ADS 4223 Goat and Sheep Production & ADS 4211 Goat and Sheep Production Laboratory, ADS 4323 Beef Cattle Science & ADS 4321 Beef Production Laboratory, ADS 4813 Dairy Farm Management & ADS 4811 Dairy Farm Management Laboratory, PO 4333 Broiler Production, PO 3313 Commercial Poultry Production.* [3] *Science Electives: ABE 3413 Bioinstrumentation, ABE 4263 Soil and Water Management, ABE 4423 Bioinstrumentation II, ADS 4623 Physiology of Lactation, ADS 4333 Equine Exercise Physiology, BCH 4414 Protein Methods, BCH 4613 General Biochemistry, BIO 2103 Cell Biology, BIO 3104 Ecology, BIO 3113 Marine Biology, BIO 3303 Parasitology, BIO 3504 Comparative Anatomy, BIO 3524 Biology of Vertebrates, BIO 4113 Evolution, BIO 4404 Environmental Microbiology, BIO 4405 Pathogenic Microbiology, BIO 4413 Immunology, BIO 4414 Microbiology of Foods, BIO 4433 Principles of Virology, BIO 4503 Vertebrate Histology, CH 4521 Organic Chemistry Laboratory II, CH 4523 Organic Chemistry II, CVM 4513 Environmental Toxicology, CVM 4523 Basic Neuroscience, EPP 4113 Principles of Plant Pathology, EPP 4154 General Entomology, FNH 2112 Food Products Evaluation, FNH 4114 Analysis of Food Products, FNH 4143 Dairy Foods Processing, FNH 4164 Quality Assurance of Food Products, FNH 4173 Food*		**See academic advisor for list of approved elective courses.**	

Packaging, FNH 4243 Composition and Chemical Reactions of Foods, FNH 4313 Advanced Science of Muscle Foods, FNH 4333 Food Law, FNH 4514 Poultry Processing, FNH 4553 Current Issues in Food Science, FNH 4563 Food Products Evaluation, FNH 4583 Food Preservation Technology, FNH 4593 New Food Product Development, FNH 4313 Advanced Science of Muscle Foods, PH 1123 General Physics II, PH 1133 General Physics III, PH 2223 Physics II, PO 4844 Avian Anatomy and Physiology, PSS 4503 Plant Breeding, PSS 4555 Plant Growth and Development, VS 2033 Diseases of Poultry.			
Total Hours	**124**	**Total Hours**	**124**
Concentration Courses Business and Industry	59	Concentration Courses Business and Industry	**58**
Inorganic Chemistry Sequence Choose one of the following:		Inorganic Chemistry Sequence Choose one of the following:	**7**
CH 1043 Survey of Chemistry I &	*3*	CH 1043 Survey of Chemistry I &	
CH 1053 Survey of Chemistry II &	*3*	CH 1053 Survey of Chemistry II &	
CH 1051 Experimental Chemistry	*1*	CH 1051 Experimental Chemistry	
OR		OR	
CH 1211 Investigations in Chemistry I &	*1*	CH 1211 Investigations in Chemistry I &	
CH 1213 Chemistry I &	*3*	CH 1213 Chemistry I &	
CH 1221 Investigations in Chemistry II &	*1*	CH 1221 Investigations in Chemistry II &	
CH 1223 Chemistry II	*3*	CH 1223 Chemistry II	
Organic Chemistry & Lab Choose one of the following:		Organic Chemistry & Lab Choose one of the following:	**4**
CH 2503 Elementary Organic Chemistry &	*3*	CH 2503 Elementary Organic Chemistry &	
CH 2501 Elementary Organic Chemistry Lab	*1*	CH 2501 Elementary Organic Chemistry Lab	
OR		OR	
CH 4513 Organic Chemistry I &	*3*	CH 4513 Organic Chemistry I &	
CH 4511 Organic Chemistry Lab I	*1*	CH 4511 Organic Chemistry Lab I	
Biology BIO 1134 Biology I OR BIO 1144 Biology II	*4*	Biology BIO 1134 Biology I OR BIO 1144 Biology II	**4**
2 Evaluation Elective[1]	*2-3*	Evaluation **& Management** Electives	**4**
2 Production Elective[2]	*6-8*	Production Electives	**8**
4 Business Electives[3]	*12*	Business Electives	12
General Ag Electives[4]	*12*	General Ag Electives	12
Free Electives	*8-11*	Free Electives	**7**
[1] *Evaluation Electives:* *ADS 2101 Equine Conformation and Performance Evaluation, ADS 2122 Advanced Equine Evaluation, ADS 3142 Meats Judging I, ADS 3213 Livestock Growth, Development & Evaluation, ADS 3812 Dairy Cattle Appraisal, ADS 4212 Livestock Evaluation, ADS 4232 Advance Livestock Evaluation, FNH 2112 Food Products Evaluation.*		**See academic advisor for list of approved elective courses.** Writing Requirement: Satisfied by the successful completion of ADS 1113, ADS 2111, ADS 4213, ADS 4613, ADS 4221, and ONE of: ADS 2102, ADS 2122, ADS 3213, ADS 4212, **ADS 4420, ADS 4440, ADS 4520** or ADS 4623.	
[2] *Production Electives:* *ADS 2223 Companion Animal, ADS 3223 Horse*		Oral Communication Requirement: Satisfied by the successful completion of ADS 4613,	

Management, ADS 4113 Swine Science & ADS 4111 Swine Production and Management Laboratory, 3 *ADS 4223 Goat and Sheep Production & ADS 4211 Goat and Sheep Production Laboratory, ADS 4323 Beef Cattle Science & ADS 4321 Beef Production Laboratory, ADS 4813 Dairy Farm Management & ADS 4811 Dairy Farm Management Laboratory, PO 4333 Broiler Production, PO 3313 Commercial Poultry Production.* *[3] Business Electives:* *ACC 2013 Principles of Financial Accounting, AEC 2713 Introduction to Food and Resource Economics, AEC 3113 Introduction to Quantitative Economics, AEC 3133 Introductory Agribusiness Management, AEC 3213 International Trade in Agriculture, AEC 3233 Introduction to Environmental Economics, AEC 3413 Introduction to Food Marketing, AEC 3513 Introduction of Food and Fiber Production, AEC 4123 Financial and Commodity Futures Marketing, AEC 4133 Analysis of Food Markets and Prices, AEC 4343 Advanced Farm Management, AEC 4413 Public Problems of Agriculture, EC 2113 Principles of Macroeconomics, EC 2123 Principles of Microeconomics, EC 4323 International Economics, MGT 3114 Principles of Management and Production, MKT 3013 Principles of Marketing, MKT 4113 Personal Selling, MKT 4143 Sales Management, MKT 4213 Internet Marketing.* *[4] General Ag Electives:* *ABE 1073 Agriculture Mechanics, ABE 1863 Engineering Technology in Agriculture, ABE 1921 Introduction to Engineering Design, ABE 2873 Land Surveying, ABE 3413 Bioinstrumentation, ABE 4163 Machinery Management for Agro-Ecosystems, ABE 4263 Soil and Water Management, ABE 4383 Building Construction, ABE 4423 Bioinstrumentation II, ABE 4483 Introduction to Remote Sensing Technologies, ADS 1132 Introduction to Horsemanship, ADS 2101 Equine Conformation and Performance Evaluation, ADS 2122 Advanced Equine Evaluation, ADS 2212 Equine Behavior and Training, ADS 2223 Companion Animal , ADS 2312 Advanced Horsemanship, ADS 3142 Meats Judging I, ADS 3213 Livestock Growth, Development & Evaluation, ADS 3223 Horse Management, ADS 3233 Equine Assisted Therapy, ADS 3812 Dairy Cattle Appraisal, ADS 4112 Equine Reproduction, ADS 4113 Swine Science, ADS 4212 Livestock Evaluation ADS 4223 Goat and Sheep Production, ADS 4232 Advance Livestock Evaluation, ADS 4324 Beef Cattle Science, ADS 4433 Advanced Beef Cattle Production, ADS 4313 Advanced Science*		**ADS 4221** and TWO of the following: ADS 2102, ADS 2122, ADS 2223, ADS 3812, ADS 4212, ADS 4412, **ADS 4420**, **ADS 4440, ADS 4520**, ADS 4623, or ADS 4813. Computer Literacy Requirement: Satisfied by the successful completion of ADS 3312, **ADS 4420**, **ADS 4440**, **ADS 4520**, ADS 4813, or ADS 4523.	

of Muscle Foods, ADS 4412 Managing Livestock Sales I, ADS 4813 Dairy Farm Management, ADS 4823 Advanced Dairy Farm Management, ADS 4623 Physiology of Lactation, ADS/FNH 4243 Composition and Chemical Reactions of Foods, AIS 3803 Leadership Development in Agriculture and Life Sciences, AIS 2413 Introduction to Agriculture Information Science, AIS 4103 Objectives and Procedures of Programs in Agricultural Information Science and Education, AIS 4403 Development of Youth Programs, AIS 4424 Teaching Methods in Agriculture and Human Sciences, EPP 2213 Introduction to Insects, FNH 1103 Introduction to Food Science, FNH 2112 Food Products Evaluation, FNH 4114 Analysis of Food Products, FNH 4143 Dairy Foods Processing, FNH 4164 Quality Assurance of Food Products, FNH 4173 Food Packaging, FNH 4313 Advanced Science of Muscle Foods, FNH 4333 Food Law, FNH 4514 Poultry Processing, FNH 4553 Current Issues in Food Science, FNH 4563 Food Products Evaluation, FNH 4583 Food Preservation Technology, FNH 4593 New Food Product Development, PO 3313 Commercial Poultry Production, PO 4313 Management of Commercial Layers, PO 4323 Avian Reproduction, PO 4333 Broiler Production, PO 4413 Poultry Nutrition, PO 4423 Feed Manufacturing, PSS 1313 Plant Science, PSS 3133 Introduction to Weed Science, PSS 3303 Soils, PSS 4103 Forage and Pasture Crops, PSS 4123 Grain Crops. Writing Requirement: Satisfied by the successful completion of ADS 1113, ADS 2111, ADS 4213, ADS 4613, ADS 4221, *ADS 4000* and ONE of: ADS 2102, ADS 2122, ADS 3213, ADS 4212, or ADS 4623. Oral Communication Requirement: Satisfied by the successful completion of ADS 4613, ADS 4000 and TWO of the following: ADS 2102, ADS 2122, ADS 2223, ADS 3812, ADS 4212, ADS 4412, ADS 4623, or ADS 4813. Computer Literacy Requirement: Satisfied by the successful completion of ADS 3312, *ADS 4223,* ADS 4813, or ADS 4523.			
		Total Hours	124
Concentration Courses Production Management Inorganic Chemistry Sequence Choose one of the following: CH 1043 Survey of Chemistry I & CH 1053 Survey of Chemistry II & CH 1051 Experimental Chemistry OR	 *3* *3* *1*	Concentration Courses Production Management Inorganic Chemistry Sequence Choose one of the following: CH 1043 Survey of Chemistry I & CH 1053 Survey of Chemistry II & CH 1051 Experimental Chemistry OR	**58** **7**

CH 1211 Investigations in Chemistry I & CH 1213 Chemistry I & CH 1221 Investigations in Chemistry II & CH 1223 Chemistry II	*1* *3* *1* *3*	CH 1211 Investigations in Chemistry I & CH 1213 Chemistry I & CH 1221 Investigations in Chemistry II & CH 1223 Chemistry II	
Organic Chemistry & Lab Choose one of the following: CH 2503 Elementary Organic Chemistry & CH 2501 Elementary Organic Chemistry Lab OR CH 4513 Organic Chemistry I & CH 4511 Organic Chemistry Lab I	 *3* *1* *3* *1*	Organic Chemistry & Lab Choose one of the following: CH 2503 Elementary Organic Chemistry & CH 2501 Elementary Organic Chemistry Lab OR CH 4513 Organic Chemistry I & CH 4511 Organic Chemistry Lab I	**4**
Biology BIO 1134 Biology I OR BIO 1144 Biology II	 *4* *4*	Biology BIO 1134 Biology I OR BIO 1144 Biology II	
2 Evaluation Elective[1] *4* Production Elective[2] *2* Business Electives[3] General Ag Electives[4] Free Electives	*4-5* *12-16* *6* *12* *4-10*	Evaluation **& Management** Electives Production Electives Business Electives General Ag Electives Free Electives	**4** **16** **6** **12** **5**
[1] *Evaluation Electives:* *ADS 2101 Equine Conformation and Performance Evaluation, ADS 2122 Advanced Equine Evaluation, ADS 3142 Meats Judging I, ADS 3213 Livestock Growth, Development & Evaluation, ADS 3812 Dairy Cattle Appraisal, ADS 4212 Livestock Evaluation, ADS 4232 Advance Livestock Evaluation, FNH 2112 Food Products Evaluation.* [2] *Production Electives:* *ADS 2223 Companion Animal, ADS 3223 Horse Management, ADS 4113 Swine Science & ADS 4111 Swine Production and Management Laboratory,* *ADS 4223 Goat and Sheep Production & ADS 4211 Goat and Sheep Production Laboratory, ADS 4323 Beef Cattle Science & ADS 4321 Beef Production Laboratory, ADS 4813 Dairy Farm Management & ADS 4811 Dairy Farm Management Laboratory, PO 4333 Broiler Production, PO 3313 Commercial Poultry Production.* [3] *Business Electives:* *ACC 2013 Principles of Financial Accounting, AEC 2713 Introduction to Food and Resource Economics, AEC 3113 Introduction to Quantitative Economics, AEC 3133 Introductory Agribusiness Management, AEC 3213 International Trade in Agriculture, AEC 3233 Introduction to Environmental Economics, AEC 3413 Introduction to Food Marketing, AEC 3513 Introduction of Food and Fiber Production, AEC 4123 Financial and Commodity Futures Marketing, AEC 4133 Analysis of Food Markets and Prices, AEC 4343*		**See academic advisor for list of approved elective courses.** Writing Requirement: Satisfied by the successful completion of ADS 1113, ADS 2111, ADS 4213, ADS 4613, ADS 4221, and ONE of: ADS 2102, ADS 2122, ADS 3213, ADS 4212, **ADS 4420**, **ADS 4440, ADS 4520** or ADS 4623. Oral Communication Requirement: Satisfied by the successful completion of ADS 4613, **ADS 4221** and TWO of the following: ADS 2102, ADS 2122, ADS 2223, ADS 3812, ADS 4212, ADS 4412, **ADS 4420**, **ADS 4440, ADS 4520**, ADS 4623, or ADS 4813. Computer Literacy Requirement: Satisfied by the successful completion of ADS 3312, **ADS 4420**, **ADS 4440**, **ADS 4520**, ADS 4813, or ADS 4523.	

Advanced Farm Management, AEC 4413 Public Problems of Agriculture, EC 2113 Principles of Macroeconomics, EC 2123 Principles of Microeconomics, EC 4323 International Economics, MGT 3114 Principles of Management and Production, MKT 3013 Principles of Marketing, MKT 4113 Personal Selling, MKT 4143 Sales Management, MKT 4213 Internet Marketing. *[4] General Ag Electives:* *ABE 1073 Agriculture Mechanics, ABE 1863 Engineering Technology in Agriculture, ABE 1921 Introduction to Engineering Design, ABE 2873 Land Surveying, ABE 3413 Bioinstrumentation, ABE 4163 Machinery Management for Agro-Ecosystems, ABE 4263 Soil and Water Management, ABE 4383 Building Construction, ABE 4423 Bioinstrumentation II, ABE 4483 Introduction to Remote Sensing Technologies, ADS 1132 Introduction to Horsemanship, ADS 2101 Equine Conformation and Performance Evaluation, ADS 2122 Advanced Equine Evaluation, ADS 2212 Equine Behavior and Training, ADS 2223 Companion Animal , ADS 2312 Advanced Horsemanship, ADS 3142 Meats Judging I, ADS 3213 Livestock Growth, Development & Evaluation, ADS 3223 Horse Management, ADS 3233 Equine Assisted Therapy, ADS 3812 Dairy Cattle Appraisal, ADS 4112 Equine Reproduction, ADS 4113 Swine Science, ADS 4212 Livestock Evaluation ADS 4223 Goat and Sheep Production, ADS 4232 Advance Livestock Evaluation, ADS 4324 Beef Cattle Science, ADS 4433 Advanced Beef Cattle Production, ADS 4313 Advanced Science of Muscle Foods, ADS 4412 Managing Livestock Sales I, ADS 4813 Dairy Farm Management, ADS 4823 Advanced Dairy Farm Management, ADS 4623 Physiology of Lactation, ADS/FNH 4243 Composition and Chemical Reactions of Foods, AIS 3803 Leadership Development in Agriculture and Life Sciences, AIS 2413 Introduction to Agriculture Information Science, AIS 4103 Objectives and Procedures of Programs in Agricultural Information Science and Education, AIS 4403 Development of Youth Programs, AIS 4424 Teaching Methods in Agriculture and Human Sciences, EPP 2213 Introduction to Insects, FNH 1103 Introduction to Food Science, FNH 2112 Food Products Evaluation, FNH 4114 Analysis of Food Products, FNH 4143 Dairy Foods Processing, FNH 4164 Quality Assurance of Food Products, FNH 4173 Food Packaging, FNH 4313 Advanced Science of Muscle Foods, FNH 4333 Food Law, FNH 4514 Poultry Processing, FNH 4553 Current Issues in Food Science, FNH 4563 Food Products Evaluation, FNH 4583 Food Preservation Technology, FNH 4593 New Food Product Development, PO 3313*			

Commercial Poultry Production, PO 4313 Management of Commercial Layers, PO 4323 Avian Reproduction, PO 433 Broiler Production, PO 4413 Poultry Nutrition, PO 4423 Feed Manufacturing, PSS 1313 Plant Science, PSS 3133 Introduction to Weed Science, PSS 3303 Soils, PSS 4103 Forage and Pasture Crops, PSS 4123 Grain Crops. Writing Requirement: Satisfied by the successful completion of ADS 1113, ADS 2111, ADS 4213, ADS 4613, ADS 4221, *ADS 4000* and ONE of: ADS 2102, ADS 2122, ADS 3213, ADS 4212, or ADS 4623. Oral Communication Requirement: Satisfied by the successful completion of ADS 4613, ADS 4000 and TWO of the following: ADS 2102, ADS 2122, ADS 2223, ADS 3812, ADS 4212, ADS 4412, ADS 4623, or ADS 4813. Computer Literacy Requirement: Satisfied by the successful completion of ADS 3312, ADS 4223, ADS 4813, or ADS 4523.			
Concentration Courses			
Course requirements for Pre-Veterinary students (3 + 1 program) to obtain a B.S. degree in Animal and Dairy Sciences Because 1. the entrance requirements for the College of Veterinary Medicine satisfy a portion of the course requirements for the Animal and Dairy Sciences curriculum 2. a number of students are enrolled in Animal and Dairy Sciences while satisfying their pre-veterinary requirements and 3. an Animal and Dairy Sciences degree will be especially helpful to a practicing veterinarian, the following requirements for those electing to apply for a Bachelor of Science degree in Animal and Dairy Sciences after successfully completing the first year of Veterinary Medicine are listed. General Education Requirements 27 Dept Core *(excluding Seminar)* *38* Science/Veterinary Medicine Concentration (excl. Free Electives) *50-53* To qualify for the Bachelor of Science degree in ADS, a student in the 3+1 program must		Course requirements for Pre-Veterinary students (3 + 1 program) to obtain a B.S. degree in Animal and Dairy Sciences Because 1. the entrance requirements for the College of Veterinary Medicine satisfy a portion of the course requirements for the Animal and Dairy Sciences curriculum 2. a number of students are enrolled in Animal and Dairy Sciences while satisfying their pre-veterinary requirements and 3. an Animal and Dairy Sciences degree will be especially helpful to a practicing veterinarian, the following requirements for those electing to apply for a Bachelor of Science degree in Animal and Dairy Sciences after successfully completing the first year of Veterinary Medicine are listed. General Education Requirements 27 Dept Core **39** Science/Veterinary Medicine Concentration **(excluding Science Electives and Free Electives) 40** To qualify for the Bachelor of Science degree in ADS, a student in the 3+1 program must complete the 3 years of above listed undergraduate course work (106 hours) and also successfully complete the	

complete the 3 years of above listed undergraduate course work (115-118 hours) and also successfully complete the first year of the Veterinary Medicine curriculum.		first year of the Veterinary Medicine curriculum.	
ADS Minor Requirements *The addition of this minor program will serve to complement other Bachelor of Science studies at Mississippi State University including but not limited to programs such as:* *•Biological Sciences* *•Food Science, Nutrition and Health Promotion* *•Human Sciences* *•Agricultural Economics* *•Biochemistry* *•Microbiology* *•Poultry Science* *•Agriculture Information Sciences* *•Plant and Soil Sciences* *•Wildlife and Fisheries* *A minor in Animal and Dairy Sciences would provide an opportunity for students to enhance their undergraduate training and build a platform that will set themselves above their peers upon graduation as they seek permanent employment in their respective industry.* Course Requirements: ADS 1113 Animal Science ADS 1121 Animal Science Laboratory Production Courses: *5-7 hours* ADS 3223 Horse Management ADS 4113 Swine Science ADS 4223 Goat and Sheep Production ADS 3314 Meats Processing ADS 4323 Beef Cattle Science ADS 4813 Dairy Farm Management Evaluation Course: *Choose ONE* ADS 2102 Equine Conformation and Performance Evaluation ADS 2122 Advanced Equine Evaluation ADS 3142 Meats Judging I *ADS 3213 Livestock Growth, Development and Evaluation* ADS 3812 Dairy Cattle Appraisal ADS 4212 Livestock Evaluation ADS 4232 Advanced Livestock Evaluation *Choose ONE of the following:* *ADS 4123 Animal Breeding* *ADS 4213 Livestock Nutrient Requirements and Formulation of Rations* *Choose ONE of the following:* *ADS 4613 Physiology of Reproduction* *ADS 4623 Physiology of Lactation* Total credits: *Minimum of 17* hours		ADS Minor Requirements **Obtaining a minor in Animal and Dairy Sciences will serve to complement other Bachelor of Science studies at Mississippi State University through multidisciplinary science coursework aimed to provide a deeper understanding of livestock.** Course Requirements: ADS 1113 Animal Science ADS 1121 Animal Science Laboratory Production Courses: **3 hours** **ADS 3213 Livestock Growth and Development** ADS 3223 Horse Management ADS 4113 Swine Science ADS 4223 Goat and Sheep Production ADS 4323 Beef Cattle Science ADS 4813 Dairy Farm Management Evaluation Course: **2 hours** ADS 2102 Equine Conformation and Performance Evaluation ADS 2122 Advanced Equine Evaluation ADS 3812 Dairy Cattle Appraisal ADS 4212 Livestock Evaluation ADS 4232 Advanced Livestock Evaluation **Upper-Level Course: 9 hours** **ADS 3014 Anatomy & Physiology** **ADS 3314 Introduction to Meat Science** **ADS 4114 Animal Nutrition** **ADS 4213 Animal Breeding** **ADS 4213 Feeds & Feeding** **ADS 4333 Equine Exercise Physiology** **ADS 4543 Applied Animal Biotechnology** **ADS 4613 Physiology of Reproduction** **ADS 4623 Physiology of Lactation** **ADS 4633 Immunology and Disease in Large Livestock Species** Total Credits: **18** Hours	

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

The proposed curriculum modifications reflect recent changes to specific courses required by all students in the program. The proposed changes will not only more readily prepare students for a career in the animal agriculture industries, but it will also prepare them for graduate and/or professional studies. Changes to the ADS minor are intended to give students more choices and flexibly to focus on areas in which they have the most interest.

Upon successful completion of a Bachelor of Science degree in Animal and Dairy Sciences, student should 1) have a comprehensive understanding of the animal and dairy sciences industries 2) have a more global perspective of the various sectors of production animal agriculture, and 3) have technical and discipline specific skills needed to successfully contribute to the animal and dairy science industries.

4. SUPPORT
Letters Attached

5. PROPOSED 4-LETTER ABBREVIATION
PVSC (Pre-Vet/Science)
BSIN (Business and Industry)
PMGT (Production Management)

6. EFFECTIVE DATE
Spring 2019

MISSISSIPPI STATE UNIVERSITY.

DEPARTMENT OF
ANIMAL AND DAIRY SCIENCES
P.O. Box 9815
Mississippi State, MS 39762
P. 662.325.2802
F. 662.325.8873

September 14, 2018

Dr. Franz,

The Undergraduate Curriculum Committee in the Department of Animal and Dairy Sciences fully supports the proposed curriculum modification. The change of the previous "Science/Veterinary Science" concentration to the proposed "Pre-Vet/Science" allows for better clarity for prospective students that our program is an option for those who are pursuing veterinary school. Additionally, the changes to the ADS minor requirements make earning the ADS minor more attainable with more flexibility in coursework. Finally, the 3+1 program requirements have been updated to more closely align with other pre-vet 3+1 programs at Mississippi State University.

Please accept this letter of support for the undergraduate curriculum modifications. If you have any questions or concerns, I will be happy to address them.

Undergraduate Curriculum Committee Members include:

Jessica M. Graves (Chair)
Clay Cavinder
Brett Crow
Derris Devost-Burnett
Thu Dinh
Jamie E. Larson
Caleb O. Lemley
Shengfa Liao
Erdogan Memili
Molly Nicodemus
Henry Paz
Brian J. Rude
Trent Smith
Amanda Stone

Kindly,

Jessica M. Graves, M.S.
Animal and Dairy Sciences
Undergraduate Coordinator & Instructor
Office: 662-325-2936

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: *Education*

Department: *Counseling, Educational Psychology and Foundations*

Contact Person: *Dr. Dan Gadke*

Mail Stop: *9727*

E-mail: *dgadke@colled.msstate.edu*

Nature of Change: Degree program name

Date Initiated: *06/29/2018*

Effective Date: *Upon approval*

Current Degree Program Name: *Ph.D. in College/Postsecondary Student Counseling & Personnel*

Major:

Concentration:

New Degree Program Name: *Ph.D. in Counselor Education*

Major:

Concentration:

Summary of Proposed Changes:

We are changing degree name only. The rationale, degree information, and related justification are given in the attached IHL paperwork, which has already been approved (effective June 14, 2018).

Approved:	Date:
Donald Morse Department Head	06/29/2018
Rebecca Rohrbaugh Davis Chair, College or School Curriculum Committee	6/29/18
Teresa Jayroe Dean of College or School	8/31/18
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council(if applicable)	
Chair, Deans Council	

MISSISSIPPI STATE UNIVERSITY

OFFICE OF THE PROVOST AND EXECUTIVE VICE PRESIDENT

P. O. Box BQ
3500 Lee Hall
Mississippi State, MS 39762-5566
P: 662.325.3742
F: 662.325.4039

June 14, 2018

NOTIFICATION OF BOARD APPROVAL

TO: Richard Blackbourn
Dean, College of Education

FROM: Judy Bonner
Provost and Executive Vice President

This is your official notification that permission to rename the following academic program was approved by the Mississippi Board of Trustees of Institutions of Higher Learning at the April 2017 meeting.

From: Ph.D. in College/Postsecondary Student Counseling & Personnel Services (CIP 13.1102)

To: Ph.D. in Counselor Education
(CIP 13.1102)

c: Mark E. Keenum, President
Peter Ryan, Associate Provost and Interim Dean of the Graduate School
Nancy Fultz, Office of the Provost and Executive Vice President
John Dickerson, Assistant VP, Enrollment
David Morse, Head, Counseling, Educational Psychology & Foundations
Amy Adkerson, Associate Registrar
Tim Chamblee, Office of Institutional Research & Effectiveness
Teresa Jayroe, Associate Dean and Professor
Dana Franz, Chair, University Committee on Courses and Curricula

Appendix 9a: Modifications to Existing Degree Program Proposal (Renaming)

Institution: Mississippi State University

Date of Implementation:	Present Six Digit CIP Code(s):	New Six Digit CIP Code:
8/1/2018	13.1102	13.1102

Present Program Title(s) as Appear(s) on Academic Program Inventory, Diploma, and Transcript:
Ph.D. in College/Postsecondary Student Counseling & Personnel Services

New Program Title as will Appear on Academic Program Inventory, Diploma, and Transcript:
Ph.D. in Counselor Education

Degree(s) to be Awarded:
Ph.D. in Counselor Education

Credit Hour Requirements:
81

List any institutions within the state offering similar programs:
University of Mississippi

Responsible Academic Unit(s):
Counseling, Educational Psychology and Foundations

Institutional Contact:
Phone: Dr. David Morse
Email: DMorse@colled.msstate.edu

Number of Students Enrolled in Last Six Years:		Number of Graduates Expected in Next Six Years:	
Year One	13	Year One	14
Year Two	13	Year Two	14
Year Three	18	Year Three	14
Year Four	12	Year Four	14
Year Five	17	Year Five	14
Year Six	19	Year Six	14
Total	92	Total	76

Program Summary:

The program for the Doctor of Philosophy (Ph.D.) degree in Counselor Education is designed for experienced counseling practitioners who wish to become leaders and trainers of counselors. Program candidates learn executive and supervisory skills, theory, ethical decision making and behavior, advanced training in research methodology, evidence-based methods for an increasingly diverse population, and hands-on internship and practicum experiences in applying their own skills, honing supervisory skills, and becoming an effective trainer of counselors.

The proposed degree name change will not involve curricular changes, any additional costs, or changes in the requisite personnel needed to deliver the program.

Chief Academic Officer Signature — Date: 1/29/18

Institutional Executive Officer Signature — Date: 1-30-18

Institution: Mississippi State University

1. Describe how the proposed modification fits within the mission of the institution.

   The name change makes clear the intended role of the degree program—that of training persons to be leaders and trainers of counselors. In the field of counseling, a master's degree (albeit with more semester hours than for other MS programs, 48-60) is the requisite credential. The PhD is not to train practitioners, and this will help make the distinction less ambiguous.

2. Is this modification unnecessarily duplicative of other programs within the System?

   No.

3. Describe the anticipated institutional impact including any research efforts associated with this program.

   The proposed name change is: (a) less likely to be confused by students applying for the PhD; and (b) more consistent with how peer and peer-plus programs around the country identify their programs. We do not anticipate any effects or structural changes to the curriculum or to research efforts associated with the program.

4. Are there any anticipated budget savings associated with the proposed modification?

   No.

5. Are there any changes to the educational objectives of the degree program associated with the proposed modification?

   No.

6. Are there any changes to the curriculum of the degree program associated with the proposed modification?

   No.

7. Describe how the proposed modification will affect program faculty.

   No impact to faculty other than more readily identifiable degree program and making marketing/promotion of the program to potential new students simpler.

8. Describe the evaluation process which led to the request for the proposed modification.
   The original name was driven more by the lone CIP code that was applicable to the emphasis areas that the degree includes than anything else. However, program faculty have discussed at length, and agreed upon the advantages of changing the program name to one that is less likely to confuse potential students. Further, we have had instances wherein students had inadvertently applied to the wrong program because of misunderstanding the degree name. Peer- and peer-plus programs were reviewed, and generally have adopted a broader, simpler name (as we propose) to make clearer the identity of the program.

TO: Box Council and UCCC Committee Members

FROM: **David Morse**

RE: Support of **proposed degree title change to PhD in Counselor Education**

DATE: **01/30/2018**

This letter of support is offered by the **Counseling** faculty for the proposed change of degree title from PhD in College/Postsecondary Student Counseling & Personnel Services to PhD in Counselor Education. As indicated by the signatures below, a majority of the program area faculty have approved the proposal as written for submission to the Box Council and the UCCC.

Program Area Faculty

Campus 1

[Katherine Dooley, Ph.D.] Katherine Dooley **[Date]** 2/1/18

[Rebecca Goldberg, Ph.D.] Rebecca Goldberg **[Date]** 2.27.18

[Deborah Jackson, Ph.D.] Deborah L Jackson **[Date]** 1-31-2018

[Cheryl A. Justice, Ph.D.] Cheryl A. Justice **[Date]** 2.1.18

[Joan Looby, Ph.D.] Joan Looby **[Date]** 1-31-18

[Laith Mazahreh, Ph.D.] Laith **[Date]** 1-30-2018

[Charles Palmer, Ph.D.] Charles Palmer **[Date]** 02/02/18

[Daniel Wong, Ph.D.] Daniel Wong **[Date]** 2-14-18

Campus 2 (N/A FOR PhD PROGRAM)

[Kim Hall, Ph.D.] **[Date]**

[Darren Wozny, Ph.D.] **[Date]**

[A list of the names of the program area faculty who did not sign the letter should be attached.]

Subject: RE: Box Council Question
Date: Friday, July 6, 2018 at 3:10:06 PM Central Daylight Time
From: Turner, Jenny
To: Gadke, Dan
CC: Robichaux-Davis, Rebecca

Dan:
Thanks for your e-mail and congrats on your new work assignment.
I spoke with Rebecca today, and we both think this should be a modification instead of a technical change. Your cover page looks good, but I would remove the information you currently have under Summary of Proposed Changes and use the wording from the program summary on the IHL form. For some reason, this name change request went directly to IHL instead of coming to UCCC first. A UCCC modification proposal is needed, so the change will be reflected in the UCCC archives and there will be a proposal to forward to CAPP. You will need all of the signatures since this will go to UCCC. All program proposals are paper, so you do not need to submit through the course leaf system.
Thanks for your work on this.
Have a good weekend.
JT

Jenny Turner
Assistant Coordinator for Curriculum and Scheduling
Office of the Registrar
Post Office Box 5268
Mississippi State, Mississippi 39762
662.325.9410
jturner@registrar.msstate.edu

-----Original Message-----
From: Gadke, Dan
Sent: Tuesday, July 03, 2018 6:44 AM
To: Turner, Jenny <JTurner@registrar.msstate.edu>
Subject: FW: Box Council Question

Jenny,

I hope you are doing well. Please see the email below to Dr. Robichaux-Davis. She indicated that it is only a technical change that needs to be sent directly to you. Does it need additional signatures? Does it need to be submitted via course leaf? Sorry for the multiple questions, but any information will help. Once I hear back, I will get it all taken care of and on its way to you ASAP.

Thanks for your help.

Dan

--
Daniel L. Gadke, Ph.D., BCBA, NCSP
Assistant Professor of School Psychology Licensed Psychologist; AAAA Licensed School Psychologist Director – The Autism and Developmental Disabilities Clinic Interim Department Head Dept. of Counseling, Educational Psychology, & Foundations
508 Allen Hall; Box 9727
Mississippi State University
Mississippi State, MS 39762
Work: (662)325-3312
Fax: (662)325-3263
email: dgadke@colled.msstate.edu

On 7/2/18, 4:16 PM, "Gadke, Dan" <dgadke@colled.msstate.edu> wrote:

Rebecca,

I hope your summer is going well. I am hoping to get some input from you:

Attached you will find a degree program change proposal. It is a request to change the degree name in counseling from one thing to another (Ph.D. in College/Postsecondary Student Counseling & Personnel to Ph.D. in Counselor Education) - nothing else.

You will noticed IHL already approved the name change on 6/14/18. It has not gone through the Box and UCCC during this past academic year (Lee checked). Do we need to submit this to the Box? Or can this simply be put through as a technical change?

On a different note, I was appointed Interim, so I am definitely out of the running for Box Chair!

Let me know what you think when you have the chance.

Best,
Dan

On 7/2/18, 4:10 PM, "Canon6565i" <copier@colled.msstate.edu> wrote:

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

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College: College of Forest Resources **Department:** Wildlife, Fisheries & Aquaculture

Contact Person: Leslie Burger **Mail Stop:** 9690 **E-mail:** Leslie.Burger@msstate.edu

Nature of Change: Degree modification **Date Initiated:** 09.28.2018 **Effective Date:** 06.01.2019

Degree to be offered at: MSU-Starkville campus

Current Degree Program Name: Wildlife, Fisheries & Aquaculture

Major: Wildlife, Fisheries & Aquaculture **Concentration:** 6 = WFLS, WLAC, WLVM, HWI, CLE, PVSF

New Degree Program Name: no change

Major: no change **Concentration:** 6 = WFLS, WLAC, WLVM, HWI, CLE and (NEW) Conservation Biology

Summary of Proposed Changes:

(1) Addition of a new concentration entitled Conservation Biology to address the growing number of students' interest in this option and the increasing career opportunities. Two new courses are being proposed to support this new concentration, WFA 4633 Problem-Solving in Conservation Biology and WFA 4881 Current Topics in Conservation Biology. (2) Addition of WFA 4513 Current Topics in Human Wildlife Interactions to the Human Wildlife Interactions (HWI) curriculum and deletion of six credit hours of courses from the HWI curriculum and the university catalog. Courses to be deleted from the HWI curriculum and the university catalog are WFA 3013 Human Wildlife Conflict Internship, WFA 4512 Advanced Topics in Human Wildlife Conflicts, and WFA 4521 Advanced Topics in Human Wildlife Conflicts II. Changes in the required number of professional electives have been made to maintain the requisite number of credit hours for degree completion. (3) Deletion of the Wildlife Pre-Veterinary (PVSF) Concentration. This 3+1 program is not generating graduates and has caused confusion among students regarding the appropriate concentration in which to enroll. The existing and successful Wildlife Veterinary Medicine (WLVM) concentration will remain an option for those interested in a wildlife-centric, pre-veterinary medicine, academic program.

Approved: Andy Kouba, PhD Digitally signed by Andy Kouba, PhD Date: 2018.10.01 11:00:26 -05'00'	*Date:* 10/01/2018
Department Head	
Digitally signed by Beth Stokes DN: cn=Beth Stokes, o=Mississippi State University, ou=Sustainable Bioproducts, email=ces8@msstate.edu, c=US Date: 2018.10.02 16:33:51 -05'00'	10/02/2018
Chair, College or School Curriculum Committee	
Digitally signed by Ian A. Munn DN: cn=Ian A. Munn, o=Mississippi State University, ou=College of Forest Resources, email=iam1@msstate.edu, c=US Date: 2018.10.08 10:17:22 -05'00'	
Dean of College or School	
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council (if applicable)	
Chair, Deans Council	

☐ IHL Action Required ☐ SACS Letter Sent

DEGREE MODIFICATION OUTLINE FORM

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Wildlife, Fisheries & Aquaculture Concentration: Conservation Law Enforcement; Wildlife, Fisheries & Aquaculture Science; *Wildlife Pre-Veterinary 3+1*; Wildlife Veterinary Medicine; Wildlife-Agriculture Conservation; Human-Wildlife Interactions	Degree: Bachelor of Science Major: Wildlife, Fisheries & Aquaculture Concentration: Conservation Law Enforcement; Wildlife, Fisheries & Aquaculture Science; Wildlife Veterinary Medicine; Wildlife-Agriculture Conservation; Human-Wildlife Interactions; **Conservation Biology**
Sustainable management of wildlife and fisheries resources by private and public sectors requires knowledgeable and technically competent people. The Department of Wildlife, Fisheries and Aquaculture offers a major in Wildlife, Fisheries and Aquaculture (WFA) designed to provide students with a foundational curriculum grounded on biology, ecology, habitat and population management, social sciences, mathematics, and other contemporary educational needs for natural resources professionals. Six concentrations are available to students: wildlife, fisheries and aquaculture science; conservation law enforcement; wildlife veterinary medicine; *wildlife pre-veterinary 3+1*; wildlife-agriculture conservation; and human-wildlife interactions. The curriculum will prepare students for employment in natural resource professions within private, federal, or state wildlife, fisheries, or aquaculture sectors. Additionally, the curriculum ensures students are academically prepared for post-graduate studies. Students seeking veterinary school *may choose between the wildlife pre-veterinary 3+1 or* the wildlife veterinary medicine curricula *programs*. The wildlife veterinary medicine concentration allows students to fulfill the academic requirements for entrance into veterinary school while completing a baccalaureate program. *The pre-veterinary 3+1 concentration is an integrated program that allows students to pursue a baccalaureate degree for 3 years and then, if accepted, matriculate into the MSU College of Veterinary Medicine where they must successfully complete the first year in the Veterinary Medicine curriculum to fulfill the remaining credit hours for the undergraduate degree.* A student may use their curriculum coursework to fulfill the coursework requirements necessary to become a Certified Associate Wildlife Biologist by The Wildlife Society and/or an Associate Fisheries Scientist by the American Fisheries Society. The Wildlife, Fisheries and Aquaculture Major is designed for completion within four years, but some students may not complete the program in that time because of course scheduling or other constraints.	Sustainable management of wildlife and fisheries resources by private and public sectors requires knowledgeable and technically competent people. The Department of Wildlife, Fisheries and Aquaculture offers a major in Wildlife, Fisheries and Aquaculture (WFA) designed to provide students with a foundational curriculum grounded on biology, ecology, habitat and population management, social sciences, mathematics, and other contemporary educational needs for natural resources professionals. Six concentrations are available to students: wildlife, fisheries and aquaculture science; conservation law enforcement; wildlife veterinary medicine; **conservation biology**; wildlife-agriculture conservation; and human-wildlife interactions. The curriculum will prepare students for employment in natural resource professions within private, federal, or state wildlife, fisheries, or aquaculture sectors. Additionally, the curriculum ensures students are academically prepared for post-graduate studies. Students seeking veterinary school **should** choose the wildlife veterinary medicine **curriculum program**. The wildlife veterinary medicine concentration allows students to fulfill the academic requirements for entrance into veterinary school while completing a baccalaureate program in **wildlife-related science**. A student may use their curriculum coursework to fulfill the coursework requirements necessary to become a Certified Associate Wildlife Biologist by The Wildlife Society and/or an Associate Fisheries Scientist by the American Fisheries Society. The Wildlife, Fisheries and Aquaculture Major is designed for completion within four years, but some students may not complete the program in that time because of course scheduling or other constraints. Transfer students are encouraged to contact the College of Forest Resources Student Support Services after completing their freshman year to get assistance in course planning that will enable graduation from MSU in four years. Transfer students should be aware that coursework taken elsewhere may not necessarily be accepted toward a degree in Wildlife, Fisheries and Aquaculture. Only course work determined by the Wildlife, Fisheries and Aquaculture Department to be equivalent to required

Transfer students are encouraged to contact the College of Forest Resources Student Support Services after completing their freshman year to get assistance in course planning that will enable graduation from MSU in four years. Transfer students should be aware that coursework taken elsewhere may not necessarily be accepted toward a degree in Wildlife, Fisheries and Aquaculture. Only course work determined by the Wildlife, Fisheries and Aquaculture Department to be equivalent to required coursework will be accepted. Additionally, no coursework will be considered for acceptance unless a grade of C or better has been earned. Correspondence courses will not be accepted. Transfer students with a grade point average less than or equal to 2.0 may not be admitted automatically into the WFA major. In addition to University and College requirements, students must attain a minimum grade of C in WFA Major Core courses. Students interested in pursuing the Veterinary Medicine program must meet all admission requirements by the College of Veterinary Medicine.	coursework will be accepted. Additionally, no coursework will be considered for acceptance unless a grade of C or better has been earned. Correspondence courses will not be accepted. Transfer students with a grade point average less than or equal to 2.0 may not be admitted automatically into the WFA major. In addition to University and College requirements, students must attain a minimum grade of C in WFA Major Core courses. Students interested in pursuing the Veterinary Medicine program must meet all admission requirements by the College of Veterinary Medicine.
Conservation Law Enforcement Concentration (CLE) Advisor: Dr. Kevin M. Hunt Room 1203 Sustainable Bioproducts Bldg. 1 This concentration is designed for undergraduate students who wish to seek employment immediately following receipt of a B.S. degree and to obtain positions related to natural resource law enforcement (e.g., conservation officers, park rangers) or wildlife managers (not biologists). Students may, upon graduation within this concentration, continue on to graduate school in the human dimensions, law enforcement or wildlife arenas.	Conservation Law Enforcement Concentration (CLE) Advisor: Dr. Kevin M. Hunt Room 1203 Sustainable Bioproducts Bldg. 1 This concentration is designed for undergraduate students who wish to seek employment immediately following receipt of a B.S. degree and to obtain positions related to natural resource law enforcement (e.g., conservation officers, park rangers) or wildlife managers (not biologists). Students may, upon graduation within this concentration, continue on to graduate school in the human dimensions, law enforcement or wildlife arenas.
Wildlife, Fisheries and Aquaculture Science Concentration (WLFS) Advisor: Dr. Leslie Burger Room 259 Thompson Hall This concentration is designed for undergraduate students who wish to pursue one or more advanced degrees (M.S., Ph.D.), as it prepares students for graduate school. Employment following this B.S. program is possible, but competition for jobs may be keen. This concentration is intended for serious, academically strong students, who maintain an A-B grade record (GPA 3.0), which is the minimum required for admittance into most graduate schools.	Wildlife, Fisheries and Aquaculture Science Concentration (WLFS) Advisor: Dr. Leslie Burger Room 259 Thompson Hall This concentration is designed for undergraduate students who wish to pursue one or more advanced degrees (M.S., Ph.D.), as it prepares students for graduate school. Employment following this B.S. program is possible, but competition for jobs may be keen. This concentration is intended for serious, academically strong students, who maintain an A-B grade record (GPA 3.0), which is the minimum required for admittance into most graduate schools.
Wildlife Pre-Veterinary 3+1 Concentration (PVSF)	Wildlife Veterinary Medicine Concentration (WLVM)

Advisor: Dr. Peter Allen
Room 261 Thompson Hall

This integrated curriculum allows the students to pursue a 3 + 1 undergraduate degree program in Wildlife, Fisheries, and Aquaculture for three years and then, if accepted, matriculate into the Veterinary Medicine program in College of Veterinary Medicine.

Note: Mississippi State requires a minimum of 124 hours for the undergraduate degree. Therefore, to qualify for the B.S. degree in Wildlife, Fisheries, and Aquaculture, a student MUST complete the three years of listed undergraduate course work in the wildlife pre-veterinary program AND also successfully complete the first year in the Veterinary Medicine curriculum.

Wildlife Veterinary Medicine Concentration (WLVM)

Advisor: Dr. Peter Allen
Room 261 Thompson Hall

This *integrated* curriculum *allows the* students *to pursue a four-year undergraduate degree program in Wildlife, Fisheries, and Aquaculture and then, if accepted, matriculate into the Veterinary Medicine program in College of Veterinary Medicine.*

Wildlife Agriculture Conservation Concentration (WLAC)

Advisors: *Dr. Scott Rush*
Room *231* Thompson Hall

This curriculum provides the educational background for students pursuing careers as wildlife biologists or conservationists in agricultural areas which require a strong background in both wildlife biology and agricultural science. Successful graduates of this program will meet minimum educational requirements for NRCS conservationist positions. Students completing this concentration may seek employment immediately following graduation. Students will be equally prepared to pursue one or more graduate degrees (M.S., Ph.D.) in wildlife biology and related natural resource fields.

Human-Wildlife Interactions Concentration

Advisor: Dr. Raymond Iglay
Room 271 Thompson Hall

This curriculum provides the educational background for those students wishing to pursue a career as wildlife

Advisor: Dr. Peter Allen
Room 261 Thompson Hall

This **rigorous** curriculum **provides** students **with solid training in wildlife and fisheries science that allows them to meet veterinary school entry requirements as well as prepares them for employment or graduate school. Acceptance to veterinary medicine schools is a highly competitive process and successful completion of the WLVM curriculum will be necessary to improve the likelihood of acceptance to a veterinary medicine school.**

Wildlife Agriculture Conservation Concentration (WLAC)

Advisors: Dr. **Mark McConnell**
Room **251** Thompson Hall

This curriculum provides the educational background for students pursuing careers as wildlife biologists or conservationists in agricultural areas which require a strong background in both wildlife biology and agricultural science. Successful graduates of this program will meet minimum educational requirements for NRCS conservationist positions. Students completing this concentration may seek employment immediately following graduation. Students will be equally prepared to pursue one or more graduate degrees (M.S., Ph.D.) in wildlife biology and related natural resource fields.

Human-Wildlife Interactions Concentration

Advisor: Dr. Raymond Iglay
Room 271 Thompson Hall

This curriculum provides undergraduate students with a comprehensive background necessary for regional, national, and international careers in conservation biology. Students will be equipped with skillsets to address population ecology, imperiled and at-risk species, global threats to biodiversity, in situ and ex situ conservation, conservation genetics, conservation planning, and sociocultural elements of conservation. Students in this concentration are encouraged to pursue advanced degrees (M.S., PhD), therefore the concentration targets students who excel academically and can maintain a GPA > 3.00 (minimum required for admittance into most graduate degree programs).

Conservation Biology Concentration (CONB)

Advisor: Dr. Kristine O. Evans
Room 265 Thompson Hall

biologist with a strong background in addressing human-wildlife interactions, including conflict resolution. Students completing this concentration may seek employment immediately following graduation; however, competition for positions may be intense. Students will be equally prepared to pursue one or more graduate degrees (M.S., Ph.D.).	**This curriculum provides undergraduate students with a comprehensive background necessary for regional, national, and international careers in conservation biology. Students will be equipped with skillsets to address population ecology, imperiled and at-risk species, global threats to biodiversity, in situ and ex situ conservation, conservation genetics, conservation planning, and sociocultural elements of conservation. This concentration is intended for serious, academically strong students, who maintain an AB grade record (GPA 3.0), which is the minimum required for admittance into graduate schools. Students will be equally prepared for entry-level employment.**

CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
EN 1103 English Composition I or EN 1163 Accelerated Composition I EN 1113 English Composition or EN 1173 Accelerated Composition II	6	EN 1103 English Composition I or EN 1163 Accelerated Composition I EN 1113 English Composition or EN 1173 Accelerated Composition II	6
Mathematics and Statistics – see concentrations	6	Mathematics and Statistics – see concentrations	6
BIO 1134 Biology I BIO 1144 Biology II see concentrations for additional requirements	4 4 0	BIO 1134 Biology I BIO 1144 Biology II see concentrations for additional requirements	4 4 0
Humanities - PHI 1123 Introduction to Ethics (required for CLE) Any General Education course (1 for CLE; 2 for all other concentrations)	6	Humanities - PHI 1123 Introduction to Ethics (required for CLE) Any General Education course (1 for CLE; 2 for all other concentrations)	6
Fine Arts Any General Education course	3	Fine Arts Any General Education course	3
Social/Behavioral Sciences PSY 1013 General Psychology (required for CLE) SO1003 Introduction to Sociology (required for CLE) WFA Social/Behavioral Sciences requirement (all concentrations except CLE) Any General Education course (all concentrations except CLE) Total	 3 3 3 3 35	Social/Behavioral Sciences PSY 1013 General Psychology (required for CLE) SO1003 Introduction to Sociology (required for CLE) WFA Social/Behavioral Sciences requirement (all concentrations except CLE) Any General Education course (all concentrations except CLE) Total	 3 3 3 35
Major Core[2] WFA 1102 Wildlife & Fisheries Profession WFA 3133 Applied Aquatic &	 2 3	Major Core[2] WFA 1102 Wildlife & Fisheries Profession WFA 3133 Applied Aquatic &	 2 3

	Terrestrial Ecology			Terrestrial Ecology	
WFA 4153	Principles of Wildlife Conservation and Management	3	WFA 4153	Principles of Wildlife Conservation and Management	3
WFA 4223	Wildlife Plant Identification	3	WFA 4223	Wildlife Plant Identification	3
WFA 4243	Wildlife Techniques	3	WFA 4243	Wildlife Techniques	3
WFA 4353	Fish & Wildlife Policy & Law Enforcement	3	WFA 4353	Fish & Wildlife Policy & Law Enforcement	3
WFA 4473	Wildlife & Fisheries Practices	3	WFA 4473	Wildlife & Fisheries Practices	3
Plant Elective[1]		3	Plant Elective[1]		3
Oral Communication Requirement:		3	Oral Communication Requirement:		3
Choose one:			Choose one:		
CO 1003	Fundamentals of Public Speaking OR		CO 1003	Fundamentals of Public Speaking OR	
CO 1013	Intro to Communication OR		CO 1013	Intro to Communication OR	
AELC 3333	Professional Presentations in Ag & Life Science		AELC 3333	Professional Presentations in Ag & Life Science	
Writing Requirement[1]		3	Writing Requirement[1]		3
Aquatics Elective[1]		3	Aquatics Elective[1]		3
WFA 4173 Fish Physiology (required for WLVM and PVSF concentrations)			WFA 4173 Fish Physiology (required for WLVM and PVSF concentrations)		
Natural Resources Policy Elective[1]		3	Natural Resources Policy Elective[1]		3
	Total	35		Total	35
[1] All electives chosen from a list approved by the Department of Wildlife, Fisheries & Aquaculture [2] Note: Pre-requisites and co-requisites are strictly enforced in the College of Forest Resources. It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.			[1] All electives chosen from a list approved by the Department of Wildlife, Fisheries & Aquaculture [2] Note: Pre-requisites and co-requisites are strictly enforced in the College of Forest Resources. It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.		
Concentration Courses Choose one of the following concentrations: The Concentrations: The academic concentrations within the Wildlife, Fisheries, and Aquaculture Major are offered to enable students to develop an academic background that is suited to their professional career goals. Each concentration has been developed to supplement the core curriculum which provides the basis for the wildlife and fisheries science major, regardless of the area of expertise desired by the student. Conservation Law Enforcement			Concentration Courses Choose one of the following concentrations: The Concentrations: The academic concentrations within the Wildlife, Fisheries, and Aquaculture Major are offered to enable students to develop an academic background that is suited to their professional career goals. Each concentration has been developed to supplement the core curriculum which provides the basis for the wildlife and fisheries science major, regardless of the area of expertise desired by the student. Conservation Law Enforcement Concentration (CLE)		

Concentration (CLE)			
Advisor: Dr. Kevin M. Hunt		Advisor: Dr. Kevin M. Hunt	
Courses[2] to be taken in addition to those of the core curriculum include:		Courses[2] to be taken in addition to those of the core curriculum include:	
CH 1043 Survey of Chemistry I[3]	3	CH 1043 Survey of Chemistry I[3]	3
or CH 1213 Chemistry I[3]		or CH 1213 Chemistry I[3]	
CH 1053 Survey of Chemistry II	3	CH 1053 Survey of Chemistry II	3
or CH 1223 Chemistry II		or CH 1223 Chemistry II	
CRM 1003 Crime and Justice in America	3	CRM 1003 Crime and Justice in America	3
MA 1313 College Algebra[3]	3	MA 1313 College Algebra[3]	3
or MA 1613 Calculus for Business & Life Science[3]		or MA 1613 Calculus for Business & Life Science[3]	
PHI 1123 Introduction to Ethics[3]	3	PHI 1123 Introduction to Ethics[3]	3
PSY 1013 General Psychology[3]	3	PSY 1013 General Psychology[3]	3
SO 1003 Introduction to Sociology[3]	3	SO 1003 Introduction to Sociology[3]	3
SO/CRM 3133 Deviant Behavior	3	SO/CRM 3133 Deviant Behavior	3
ST 2113 Introduction to Statistics[3]	3	ST 2113 Introduction to Statistics[3]	3
or ST 3123 Introduction to Statistical Inference[3]		or ST 3123 Introduction to Statistical Inference[3]	
Computer Application Elective[1]	3	Computer Application Elective[1]	3
CLE Elective[1]	18	CLE Elective[1]	18
Natural Resources Mgmt. Elective[1]	17	Natural Resources Mgmt. Elective[1]	17
Zoology requirement:	4	Zoology requirement:	4
BIO 3524 Bio of Verts		BIO 3524 Bio of Verts	
Total Hours	124	Total Hours	124
[1] All electives are chosen from a list approved by the Department of Wildlife, Fisheries, and Aquaculture		[1] All electives are chosen from a list approved by the Department of Wildlife, Fisheries, and Aquaculture	
[2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.		[2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.	
[3]Course meets MSU General Education requirements		[3]Course meets MSU General Education requirements	
Wildlife, Fisheries and Aquaculture Science Concentration (WLFS)		Wildlife, Fisheries and Aquaculture Science Concentration (WLFS)	
Advisor: Dr. Leslie Burger		Advisor: Dr. Leslie Burger	
Courses[2] to be taken in addition to those of the core curriculum include:		Courses[2] to be taken in addition to those of the core curriculum include:	
		BIO 3103 Genetics I	3
BIO 3103 Genetics I	3	CH 1043 Survey of Chemistry I[3]	3
CH 1043 Survey of Chemistry I[3]	3	or CH 1213 Chemistry I[3]	
or CH 1213 Chemistry I[3]		CH 1053 Survey of Chemistry II	3
CH 1053 Survey of Chemistry II	3	or CH 1223 Chemistry II	
or CH 1223 Chemistry II		MA 1613 Calc. for Bus. and Life Sci.[3]	3
MA 1613 Calc. for Bus. and Life Sci.[3]	3	or MA 1713 Calc. I[3]	
or MA 1713 Calc. I[3]		PSS 3301 Soils Laboratory	1
PSS 3301 Soils Laboratory	1	PSS 3303 Soils	3

PSS 3303 Soils	3
ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3
WFA 4123 Wildlife & Fisheries Biometrics	3
WFLS Professional Electives[1]	21
Wildlife Biology Elective[1]	6
Life Science Elective[1]	4
Computer Application Elective[1]	3
Zoology elective	3
Free elective	1
Total Hours	124

[1] All electives are chosen from a list approved by the Department of Wildlife, Fisheries and Aquaculture
[2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.
[3]Course meets MSU General Education requirements

Wildlife Pre-Veterinary 3+1 Concentration (PVSF)

Advisor: Dr. Peter Allen

Note: Mississippi State requires a minimum of 124 hours for the undergraduate degree. Therefore, to qualify for the B.S. degree in Wildlife, Fisheries, and Aquaculture, a student MUST complete the three years of the above listed undergraduate course work (115 hours) in the wildlife pre-veterinary program AND also successfully complete the first year in the Veterinary Medicine curriculum.

Courses[2] to be taken in addition to those of the core curriculum include:

CH 1213 Chemistry I[3]	*3*
CH 1211 Investigations in Chem I	*1*
CH 1223 Chemistry II	*3*
CH 1221 Investigations in Chem II	*1*
CH 4513 Organic Chemistry I	*3*
CH 4511 Organic Chem Laboratory I	*1*
CH 4523 Organic Chemistry II	*3*
CH 4521 Organic Chem Lab II	*1*
BCH 4013 Principles of Biochemistry	*3*
BIO 3103 Genetics I	*3*
ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3
WFA 4123 Wildlife & Fisheries Biometrics	3
WFLS Professional Electives[1]	21
Wildlife Biology Elective[1]	6
Life Science Elective[1]	4
Computer Application Elective[1]	3
Zoology elective	3
Free elective	1
Total Hours	124

[1] All electives are chosen from a list approved by the Department of Wildlife, Fisheries and Aquaculture
[2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.
[3]Course meets MSU General Education requirements

Wildlife Veterinary Medicine Concentration (WLVM)

Courses[2] to be taken in addition to those of the core curriculum include:

Advisor: Dr. Peter Allen

BCH 4013 Principles of Biochemistry	3
BIO 3103 Genetics I	3
BIO 3304 General Microbiology	4
CH 1213 Chemistry I[3]	3
CH 1211 Investigations in Chem I	1
CH 1223 Chemistry II	3
CH 1221 Investigations in Chem II	1
CH 4513 Organic Chemistry I	3
CH 4511 Organic Chem Laboratory I	1
CH 4523 Organic Chemistry II	3
CH 4521 Organic Chem Lab II	1
MA 1613 Calculus for Business and Life Sciences[3] or MA 1713 Calculus I[3]	3
PH 1113 General Physics I	3
PH 1123 General Physics II	3
ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3
Aquatics requirement: WFA 4173 Fish Physiology	3
Zoology requirement: BIO 2103 Cell Biology	3
Free elective	1

BIO 3304 General Microbiology	*3*
MA 1613 Calculus for Business and Life Sciences[3]	*3*
or MA 1713 Calculus I[3]	
PH 1113 General Physics I	*3*
PH 1123 General Physics II	*3*
ST 2113 Introduction to Statistics[3]	*3*
or ST 3123 Introduction to Statistical Inference[3]	
WFA 4123 W & F Biometrics[4]	*3*
Aquatics Elective:	*3*
WFA 4173 Fish Physiology	
Zoology requirement:	*3*
BIO 2103 Cell Biology	
Free elective	*1*
WLVM Professional electives	*0*
Wildlife Biology Electives[1]	*6*
Wildlife/Veterinary Internship	*0*
Total Hours	*115*

[1] All electives are chosen from a list approved by the Department of Wildlife, Fisheries and Aquaculture.
[2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.
[3]Course meets MSU General Education requirements
[4]Fulfills computer application requirement

Wildlife Veterinary Medicine Concentration (WLVM)

Courses[2] to be taken in addition to those of the core curriculum include:

Advisor: Dr. Peter Allen

BCH 4013 Principles of Biochemistry	3
BIO 3103 Genetics I	3
BIO 3304 General Microbiology	4
CH 1213 Chemistry I[3]	3
CH 1211 Investigations in Chem I	1
CH 1223 Chemistry II	3
CH 1221 Investigations in Chem II	1
CH 4513 Organic Chemistry I	3
CH 4511 Organic Chem Laboratory I	1
CH 4523 Organic Chemistry II	3
CH 4521 Organic Chem Lab II	1
MA 1613 Calculus for Business and Life Sciences[3]	3
or MA 1713 Calculus I[3]	
PH 1113 General Physics I	3
PH 1123 General Physics II	3
Wildlife Biology Elective[1]	6
WFA 4123 W & F Biometrics[4]	3
Wildlife/Veterinary Internship	0
WLVM Professional electives[1]	9
Total Hours	124

[1]All electives are chosen from a list approved by the Department of Wildlife, Fisheries and Aquaculture.
[2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.
[3]Course meets MSU General Education requirements
[4]Fulfills computer application requirement

Wildlife-Agriculture Conservation Concentration (WLAC)

Advisor: Dr. **Mark McConnell**

Courses[2] to be taken in addition to those of the core curriculum include:

BIO 3103 Genetics I	3
CH 1043 Survey of Chemistry I[3]	3
or CH 1213 Chemistry I[3]	
CH 1053 Survey of Chemistry II	3
or CH 1223 Chemistry II	
MA 1613 Calculus for Business and Life Sciences[3]	3
or MA 1713 Calculus I[3]	
PSS 3301 Soils Laboratory	1
PSS 3303 Soils	3
ST 2113 Introduction to Statistics[3]	3
or ST 3123 Introduction to Statistical Inference[3]	
WFA 4123 Wildlife & Fisheries Biometrics[4]	3
WFA 4373 Prin & Prac Cons in Ag Landscapes	3
GIS Elective [1]	3
Crop Science Elective[1]	6
Animal Science elective[1]	3
Zoology Elective	3
Free Elective	1
Wildlife Biology Electives [1]	6
Life Science Elective[1]	4
WLAC Professional Electives [1]	9
Total Hours	124

[1]All electives are chosen from a list approved by the Department of Wildlife.

ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3	Fisheries and Aquaculture. [2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified	
Aquatics requirement: WFA 4173 Fish Physiology	3	in the Course Description section of the Bulletin.	
Zoology requirement: BIO 2103 Cell Biology	3	[3]Course meets MSU General Education requirements	
Free elective	1	[4]Fulfills computer application requirement	
Wildlife Biology Elective[1]	6		
WFA 4123 W & F Biometrics[4]	3		
Wildlife/Veterinary Internship	0	<u>Human-Wildlife Interactions Concentration (HWI)</u>	
WLVM Professional electives[1]	9		
Total Hours	124	Advisor: Dr. Raymond Iglay	
[1]All electives are chosen from a list approved by the Department of Wildlife, Fisheries and Aquaculture.		Courses[2] to be taken in addition to those of the core curriculum include:	
[2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.		CH 1043 Survey of Chemistry I[3] or CH 1213 Chemistry I[3]	3
[3]Course meets MSU General Education requirements		CH 1053 Survey of Chemistry II or CH 1223 Chemistry II	3
[4]Fulfills computer application requirement		MA 1613 Calculus for Business and Life Sciences[3] or MA 1713 Calculus I[3]	3
		PSS 3301 Soils Laboratory	1
<u>Wildlife-Agriculture Conservation Concentration (WLAC)</u>		PSS 3303 Soils	3
		ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3
Advisor: Dr. *Scott Rush*			
		WFA 4123 Wildlife & Fisheries Biometrics	3
Courses[2] to be taken in addition to those of the core curriculum include:		WFA 4273 Ecology and Management of Human-Wildlife Conflicts	3
		WFA 4283 Human-Wildlife Conflict Techniques	3
BIO 3103 Genetics I	3	**WFA 4513 Current Topics in Human-Wildlife Interactions**	**3**
CH 1043 Survey of Chemistry I[3] or CH 1213 Chemistry I[3]	3	Zoology Elective[1]	3
CH 1053 Survey of Chemistry II or CH 1223 Chemistry II	3	Computer Application Elective[1]	3
MA 1613 Calculus for Business and Life Sciences[3] or MA 1713 Calculus I[3]	3	Wildlife Biology Electives[1]	6
		Life Science Electives[1]	7
		HWI Professional Electives [1]	**12**
PSS 3301 Soils Laboratory	1	Free elective	1
PSS 3303 Soils	3		
ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3	Total Hours	124
WFA 4123 Wildlife & Fisheries Biometrics[4]	3	[1]All electives are chosen from a list approved by the Department of Wildlife, Fisheries and Aquaculture.	
WFA 4373 Prin & Prac Cons in Ag Landscapes	3	[2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified	
GIS Elective [1]	3	in the Course Description section of the	
Crop Science Elective[1]	6	Bulletin.	
Animal Science elective[1]	3	[3]Course meets MSU General Education	
Zoology Elective	3	requirements	
Free Elective	1		

Wildlife Biology Electives [1]	6
Life Science Elective[1]	4
WLAC Professional Electives [1]	9
Total Hours	124
[1]All electives are chosen from a list approved by the Department of Wildlife, Fisheries and Aquaculture.	
[2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin.	
[3]Course meets MSU General Education requirements	
[4]Fulfills computer application requirement	
Human-Wildlife Interactions Concentration (HWI)	
Advisor: Dr. Raymond Iglay	
Courses[2] to be taken in addition to those of the core curriculum include:	
CH 1043 Survey of Chemistry I[3]	3
or CH 1213 Chemistry I[3]	
CH 1053 Survey of Chemistry II	3
or CH 1223 Chemistry II	
MA 1613 Calculus for Business and Life Sciences[3]	3
or MA 1713 Calculus I[3]	
PSS 3301 Soils Laboratory	1
PSS 3303 Soils	3
ST 2113 Introduction to Statistics[3]	3
or ST 3123 Introduction to Statistical Inference[3]	
WFA 3013 Human-Wildlife Conflicts Internship	3
WFA 4123 Wildlife & Fisheries Biometrics	3
WFA 4273 Ecology and Management of Human-Wildlife Conflicts	3
WFA 4283 Human-Wildlife Conflict Techniques	3
WFA 4512 Advanced Topics in Human-Wildlife Conflicts	2
WFA 4521 Advanced Topics in Human-Wildlife Conflicts II	1
Zoology Elective[1]	3
Computer Application Elective[1]	3
Wildlife Biology Electives[1]	6
Life Science Electives[1]	7
HWI Professional Electives [1]	9
Free elective	1

Conservation Biology Concentration (CONB)	
Advisor: Dr. Kristine Evans	
Courses[2] to be taken in addition to those of the core curriculum include:	
BIO 3103 Genetics	**3**
BIO 4113 Evolution	**3**
CH 1211 Chemistry I Lab	**1**
CH 1213 Chemistry I[3]	**3**
CH 1221 Chemistry II Lab	**1**
CH 1223 Chemistry II	**3**
CH 2503 Elementary Organic Chemistry	**3**
MA 1613 Calculus for Business & Life Sci[3]	**3**
ST 2113 Introduction to Statistics[3]	**3**
or ST 3123 Introduction to Statistical Inference[3]	
WFA 4123 Wildlife and Fisheries Biometrics	**3**
WFA 4253 Applied Spatial Technologies in WF	**3**
WFA 4623 Conservation Biology	**3**
WFA 4633 Problem Solving in Conservation Biology	**1**
WFA 4881 Current Topics in Conservation Biology	**3**
Computer Application Elective[1]	**3**
Organismal Electives[1]	**6**
CONB Electives[1]	**15**
Total Hours	**124**

Total Hours [1]All electives are chosen from a list approved by the Department of Wildlife, Fisheries and Aquaculture. [2]It is the student's responsibility to be aware of pre-requisites and co-requisites identified in the Course Description section of the Bulletin. [3]Course meets MSU General Education requirements	124		

1. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

Career interests for students in the field of wildlife conservation has become increasingly diverse in recent decades. Our department now serves a cross-section of students representing broad interests from traditional game management to conservation of imperiled, non-game species. To remain competitive and broaden our reach, it is critical that the university respond to the changing interests of students entering the department. As opportunities for employment in state and federal wildlife and fisheries agencies plateau, employment opportunities in other conservation sectors (e.g., non-profit organizations) have increased. The proposed concentration curriculum is intended to address the changing demographic of wildlife, fisheries and aquaculture students, allowing students interested in regional and global threats to biodiversity, imperiled and at-risk species management, conservation planning, in- and ex- situ conservation, and socio-cultural elements of conservation to develop a deeply-rooted skillsets to prepare them for careers in the conservation biology field.

2. SUPPORT

The changes outlined in the document were unanimously approved by the Department of Wildlife, Fisheries and Aquaculture as indicated in the letter of support included in this proposal package. Additionally, letters of support from the Department of Biology and Department of Chemistry, units whose courses would be impacted by the proposed changes, were obtained.

3. PROPOSED 4-LETTER ABBREVIATION

N/A

4. EFFECTIVE DATE

June 1. 2019

Conservation Biology Concentration (CONB)

CONB Electives		
WFA 4263	Wildlife Diseases	3
WFA 4116	Animal Behavior	3
WFA 4373	Conservation in Ag landscapes	3
WFA 4383	Wetlands Ecology	3
WFA 4483	Seminar in Tropical Ecology	3
WFA 4484	Upland Avian Ecology & Management	3
WFA 4463	Human Dimensions WF Management	3
WFA 4273	Management Human-Wildlife Interactions	3
WFA 4613	Landscape Ecology	3
AN/SO 4173	Environment and Society	3
BCH 4013	Principles of Biochemistry	3
BIO 4603	Ethnobotany	3
BIO 2503	Environmental Quality	3
BIO 3113	Marine Biology	3
BIO 4233	Living with Global Change	3
BIO 4143	Population Genetics (BIO 2113)	3
GG 4523	Coastal Environments (GG 1113 or consent)	3
NREC 3213	Environmental Measurements	3
NREC 4423	Environmental Assessments	3
PSS 4743	Environmental Policy (prereq PS 1013)	3

MISSISSIPPI STATE UNIVERSITY

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www.chemistry.msstate.edu

August 28th, 2018

Dear UCCC:

The Department of Chemistry supports the formation of a new concentration within the Wildlife, Fisheries and Aquaculture department focused upon Conservation Biology. This concentration will require students to enroll in General Chemistry I and General Chemistry 2 plus accompanying lab courses (CH 1213/1211 and CH 1223/1221). We strongly support our undergraduate students to get exposure to scientific courses and are happy to include these students within our enrolled sections.

Thank you for allowing this new concentration which will support students focused toward careers and opportunities in Conservation Biology.

Sincerely,
The Undergraduate Committee
Department of Chemistry

Deb Mlsna — Digitally signed by Deb Mlsna Date: 2018.08.28 09:17:21 -05'00'

Dr. Deb Mlsna, Asst. Professor
Undergraduate Coordinator

Steven Gwaltney — Digitally signed by Steven Gwaltney Date: 2018.08.28 11:12:45 -05'00'

Dr. Steven Gwaltney, Professor.
Asst. Undergraduate Coordinator

Charles Edwin Webster — Digitally signed by Charles Edwin Webster

Dr. C. Edwin Webster, Professor

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF ARTS & SCIENCES
DEPARTMENT OF BIOLOGICAL SCIENCES

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Andrew Kouba, PhD
Professor and Department Head
Department of Wildlife, Fisheries and Aquaculture

September 26, 2018

Dear Dr. Kouba,

We are writing this letter in support of the Department of Wildlife, Fisheries, and Agriculture's proposal for a new concentration called "Conservation Biology". A very important component of such a concentration will be to prepare students with a solid grounding in the basics of evolutionary biology and genetics. We are pleased to see the integration of such coursework, namely BIO 3103 Genetics and BIO 4113 Evolution, as a requirement for this concentration. Although these courses are also required by Biological Sciences majors, they are offered with sufficient frequency and capacity that I do not believe there will be any issue in serving the needs of your new concentration.

We are also supportive of the two new courses that will form part of this concentration, "Current topics in conservation biology" and "Problem solving in conservation biology". According to the proposed syllabi, these courses will provide a broad training in applied aspects of conservation problems using a wide variety of case studies and other topical information and will add valuable information not readily available through other coursework on campus.

Overall, we believe that this will be a substantive addition to the opportunities offered in your department and we are happy to be of any assistance with the curriculum moving forwards.

Sincerely,

Digitally signed by Angus Dawe
DN: cn=Angus Dawe, o=Mississippi State University, ou=Biological Sciences, email=dawe@biology.msstate.edu, c=US
Date: 2018.09.26 16:48:56 -05'00'

Angus L. Dawe, Ph.D.
Department Head &
Dr. Donald L. Hall Distinguished Professor of Biology

Christopher Brooks
2018.09.26 17:08:25
-05'00'

Christopher Brooks, Ph.D.
Associate Professor &
Curriculum Committee Chair, Biological Sciences

MISSISSIPPI STATE UNIVERSITY.

DEPARTMENT OF FORESTRY
P. O. Box 9681
Mississippi State, MS 39762
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cfr.msstate.edu

MEMO TO: Dr. Dana Pomykal Franz, Chair
University Committee on Courses and Curricula (UCCC)

FROM: Dr. Stephen C. Grado, Chair
Department of Forestry Undergraduate Curriculum Committee (UGC)

DATE: September 7, 2018

SUBJECT: Course Modification

As per UCCC policy, I am providing this documentation to verify that the Department of Forestry's UGC has reviewed and approved the new College of Forest Resources Department of Wildlife, Fisheries and Aquaculture Concentration titled Conservation Biology. In addition, we approve the additional courses for this Concentration titled **WFA 4633/WFA 6633 Problem Solving in Conservation Biology** as put forth by Instructor Kristine Evans and **WFA 4881/WFA 6881 Current Topics in Conservation Biology** as put forth by Dr. Andrew Kouba, Professor and Department Head; and Dr. Francisco Vilella, Professor. Overall, there was general support from the UGC and the faculty as a whole. Some comments from the UGC which has student representation, on these proposals, were sent to Dr. Kouba to address some minor questions and issues we had with the packet's contents.

UGC members have indicated below their approval or disapproval relative to this proposed Concentration, the two new courses and the overall packet being put forth.

Approve		Disapprove	
Print Name	Signature	Print Name	Signature
Stephen C. Grado	Stephen C. Grado		
David L. Evans			
Changyou Sun			
Courtney Segert	Courtney Segert		
Donald L. Grebner			
Heather Alexander			
Andrew Ezell			
Heidi Renninger			
LAURA GRACE			

Burger, Leslie

From: Kouba, Andrew
Sent: Thursday, August 30, 2018 2:00 PM
To: Evans, Kristine; Burger, Leslie; Hunt, Kevin; Vilella, Francisco
Subject: FW: New WFA concentration to be submitted to UCCC

Please see below.
I assume we can include the email in our application as part of the letters of support.
Andy

From: Shmulsky, Rubin
Sent: Thursday, August 30, 2018 1:06 PM
To: Kouba, Andrew
Cc: Shmulsky, Rubin
Subject: FW: New WFA concentration to be submitted to UCCC

Dr. Kouba:

I sent this out to the Sustainable Bioproducts faculty for review and comment and received no substantive concerns.

Respectfully,

Rubin Shmulsky

From: cfr-sbfaculty-request@lists.msstate.edu <cfr-sbfaculty-request@lists.msstate.edu> **On Behalf Of** Shmulsky, Rubin
Sent: Monday, August 27, 2018 7:52 AM
To: CFR Sustainable Bioproducts Faculty <cfr-sbfaculty@lists.msstate.edu>
Cc: Kouba, Andrew <a.kouba@msstate.edu>
Subject: [cfr-sbfaculty] Fw: New WFA concentration to be submitted to UCCC

Dear colleagues:

Please review the attached and let me know if you have any concerns by the end of the day on August 28.

After that, I'll respond back to Dr. Kouba.

Based on my cursory review of their new "conservation biology" proposal, I don't anticipate any concerns from our department.

Thank you,

Rubin Shmulsky

MISSISSIPPI STATE UNIVERSITY

DEPARTMENT OF WILDLIFE,
FISHERIES, AND AQUACULTURE
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Mississippi State, MS 39762
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cfr.msstate.edu

Date: September 27, 2018

To: University Committee on Courses and Curriculum

From: Dr. Leslie Burger

RE: Support for changes in the Wildlife, Fisheries and Aquaculture degree program

This letter is in support of the changes requested by the Mississippi State University Department of Wildlife, Fisheries and Aquaculture (WFA) for the Wildlife, Fisheries and Aquaculture major. These modifications — approved by the WFA faculty, affected MSU Departments (Biology and Chemistry), stakeholders and advisory board members — include the following:

- Addition of a new concentration entitled Conservation Biology to prepare students to meet the growing interest and opportunities in this career field.
    - Two new courses are being proposed to support this new concentration, WFA 4633 *Problem-Solving in Conservation Biology* and WFA *4881 Current Topics in Conservation Biology*. Letters of support from academic units that are impacted by the addition of this concentration and the two new courses have been secured.

- Addition of WFA 4513 *Current Topics in Human Wildlife Interactions* to the Human Wildlife Interactions (HWI) curriculum and deletion of six credit hours of courses from the HWI curriculum and the university catalog.
    - Courses to be deleted from the HWI curriculum and the university catalog are WFA 3013 *Human Wildlife Conflict Internship*, WFA 4512 *Advanced Topics in Human Wildlife Conflicts*, and WFA 4521 *Advanced Topics in Human Wildlife Conflicts II.*
    - Changes in the required number of professional electives have been made to maintain the required number of credit hours for degree completion.

- Deletion of the Pre-veterinary Medicine (PVLM) Concentration.
    - This advanced 3+1 program is not generating graduates and has caused confusion among students regarding the appropriate concentration in which to enroll. The existing and successful Wildlife Veterinary Medicine (WLVM) concentration will remain an option for those interested in a wildlife-centric, pre-veterinary medicine academic program.

MISSISSIPPI STATE UNIVERSITY

DEPARTMENT OF WILDLIFE, FISHERIES, AND AQUACULTURE
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The signatures below reflect our support of these changes that will address professional demands and opportunities, prepare students through rigorous yet flexible curricula, and enhance successful completion of degree programs. As a Committee, we support these changes.

Sincerely,

Leslie Burger, Assistant Extension Professor, Undergraduate Coordinator, Curriculum Committee Chair

Peter Allen, Associate Professor

Brian Davis, Associate Professor

Steve Demarais, Professor

Digitally signed by Kevin M. Hunt
DN: cn=Kevin M. Hunt, o=Mississippi State University, ou=WFA, email=kevin.hunt@msstate.edu, c=US
Date: 2018.09.27 11:56:10 -05'00'

Kevin Hunt, Professor & Graduate Coordinator