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 Forest Resources **Department:** Wildlife, Fisheries and Aquaculture

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

Nature of Change: Modification **Date Initiated:** 4/19/2024

Current Degree Program Name: Bachelor of Science

Current Major: Wildlife, Fisheries and Aquaculture

Current Concentration(s): _____

Current Campus(es): Starkville

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

Semester	Year
Summer	2025

Proposed Major: _____

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

Summary of Proposed Changes:

Modify WFA B.S. program to include language RE 3+1 option; update advisor office number

Approved:	Date:
Andy Kouba Digitally signed by Andy Kouba Date: 2024.04.20 18:35:36 -05'00'	
Department Head	
Director of Academic Quality	4/22/24
Dr. Robert K. Grala Digitally signed by Dr. Robert K. Grala Date: 2024.05.29 15:53:52 -05'00'	05/29/2024
Chair, College or School Curriculum Committee	
Wes Burger signature only 2024.05.30 13:38:35 -05'00'	5/30/2024
Dean of College or School	
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council (if applicable)	
Chair, Deans Council	

DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Wildlife, Fisheries and Aquaculture Concentrations: Conservation Law Enforcement; Wildlife, Fisheries and Aquaculture Science; Wildlife Veterinary Medicine; Wildlife Agriculture Conservation; Human-Wildlife Interactions; Conservation Biology	Degree: Bachelor of Science Major: Wildlife, Fisheries and Aquaculture Concentrations: Conservation Law Enforcement; Wildlife, Fisheries and 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; 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 are also strongly encouraged to garner professional experience in conversation-related disciplines to enhance employability & professional development. Students seeking to apply to veterinary school should choose the wildlife veterinary medicine concentration curriculum. 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 Biologists by The Wildlife Society and/or an Associate Fisheries Scientist by the American Fisheries Society. The Wildlife, Fisheries and Aquaculture Major is	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 are also strongly encouraged to garner professional experience in conversation-related disciplines to enhance employability **and** professional development. Students seeking to apply to veterinary school should choose the wildlife veterinary medicine concentration curriculum. 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 Biologists 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 coursework determined by the Registrars' Office and the Wildlife, Fisheries and Aquaculture *Department* to be equivalent to required coursework will be accepted. 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.	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 coursework determined by the Registrars' Office and the **Department of** Wildlife, Fisheries and Aquaculture to be equivalent to required coursework will be accepted. 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 Lab (Building 1) This concentration is designed for undergraduate students who wish to seek employment immediately following receipt of a B.S. degree and obtain positions related to natural resource law enforcement (e.g., conservation officers, park rangers) or wildlife managers. Students seeking careers in conservation law enforcement should be aware that application and acceptance into enforcement training programs will still be necessary upon completion of a B.S. degree. 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 a career as a biologist or advanced degrees (M.S., Ph.D.). Employment following this B.S. program is possible, although competition for entry-level jobs can be keen. Diverse options for professional electives enable students in this curriculum to select courses of interest to career	Conservation Law Enforcement Concentration (CLE) Advisor: Dr. Kevin M. Hunt Room 1203 Sustainable Bioproducts Lab (Building 1) This concentration is designed for undergraduate students who wish to seek employment immediately following receipt of a B.S. degree and obtain positions related to natural resource law enforcement (e.g., conservation officers, park rangers) or wildlife managers. Students seeking careers in conservation law enforcement should be aware that application and acceptance into enforcement training programs will still be necessary upon completion of a B.S. degree. 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 a career as a biologist or advanced degrees (M.S., Ph.D.). Employment following this B.S. program is possible, although competition for entry-level jobs can be keen. Diverse options for professional electives enable students in this curriculum to select courses of interest to career

goals in wildlife, fisheries, or aquaculture.

Wildlife Veterinary Medicine Concentration (WLVM)

Advisor: Dr. Peter Allen
Room 261 Thompson Hall

This academically 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 with an A-B academic record 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 (HWI)

Advisor: Dr. Ray Iglay
Room 271 Thompson Hall

This curriculum provides the educational background for those students wishing to pursue a career as a wildlife 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.).
Conservation Biology Concentration (CONB)

goals in wildlife, fisheries, or aquaculture.

Wildlife Veterinary Medicine Concentration (WLVM)

Advisor: Dr. Peter Allen
Room 261 Thompson Hall

This academically 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 with an A-B academic record 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 (HWI)

Advisor: Dr. Ray Iglay
Room 271 Thompson Hall

This curriculum provides the educational background for those students wishing to pursue a career as a wildlife 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.).
Conservation Biology Concentration (CONB)

Advisor: Dr. Kristine O. Evans Room *265 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 skill sets 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 can be successful in challenging coursework. Students will be equally prepared for entry-level employment.		Advisor: Dr. Kristine O. Evans Room **223 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 skill sets 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 can be successful in challenging coursework. Students will be equally prepared for entry-level employment.	
CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English EN 1103 English Composition I or EN 1104 Expanded English Composition I EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3 3	English EN 1103 English Composition I or EN 1104 Expanded English Composition I EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3 3
Fine Arts: Any General Education Course	 3	Fine Arts: Any General Education Course	 3
Natural Sciences (2 labs required from Gen Ed): BIO 1134 Biology I BIO 1144 Biology II	 4 4	Natural Science (2 labs required from Gen Ed): BIO 1134 Biology I BIO 1144 Biology II	 4 4
Extra Science (if appropriate)		Extra Science (if appropriate)	
Math (General Education): Mathematics *and Statistics* – see concentrations	 *6*	**Quantitative Reasoning** (General Education): see concentrations	 **3**
Humanities (General Education): PHI 1123 Introduction to Ethics (required for CLE) Any General Education course; 1 for CLE; 2 for all other concentrations	 3 3	Humanities (General Education): PHI 1123 Introduction to Ethics (required for CLE) Any General Education course; 1 for CLE; 2 for all other concentrations	 3 3
Social/Behavioral Sciences (Gen Ed): *PSY 1013 General Psychology (required for CLE)* *SO1003 Introduction to Sociology (required for CLE)* WFA Social/Behavioral Sciences requirement (*all concentrations except CLE)*	 *3* *3* 3	Social/Behavioral Sciences (Gen Ed): WFA Social/Behavioral Sciences requirement (**SO 1003 Introduction to Sociology is required for CLE**) Any General Education course (**PSY 1013 General Psychology is required for CLE**)	 3 3

Any General Education course *(all concentrations except CLE)*[1]	3		
Major Core[2] WFA 1102 Wildlife & Fisheries Profession WFA 3133 Applied Ecology WFA 4153 Principles of Wildlife Conservation and Management WFA 4223 Wildlife Plant Identification WFA 4243 Wildlife Techniques WFA 4353 Fish and Wildlife Policy and Law Enforcement WFA 4473 Wildlife and Fisheries Practices Plant Elective[1] Aquatics Elective[1] WFA 4173 Fish Physiology (required for WLVM concentration) Natural Resources Policy Elective[1] Oral Communication Requirement: Choose one: CO 1003 Fundamentals of Public Speaking OR CO 1013 Intro to Communication OR AELC 3333 Professional Presentations in Ag & Life Science Writing Requirement[1] Total Hours [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.	 2 3 3 3 3 3 3 3 3 3 3 3 35	Major Core[2] WFA 1102 Wildlife & Fisheries Profession WFA 3133 Applied Ecology WFA 4153 Principles of Wildlife Conservation and Management WFA 4223 Wildlife Plant Identification WFA 4243 Wildlife Techniques WFA 4353 Fish and Wildlife Policy and Law Enforcement WFA 4473 Wildlife and Fisheries Practices Plant Elective[1] Aquatics Elective[1] WFA 4173 Fish Physiology (required for WLVM concentration) Natural Resources Policy Elective[1] Oral Communication Requirement: Choose one: CO 1003 Fundamentals of Public Speaking OR CO 1013 Intro to Communication OR AELC 3333 Professional Presentations in Ag & Life Science Writing Requirement[1] **Quantitative Reasoning (see concentrations)** Total Hours [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.	 2 3 3 3 3 3 3 3 3 3 3 3 3 35
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		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.

<u>Conservation Law Enforcement Concentration (CLE)</u>

Advisor: Dr. Kevin M. Hunt

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

CH 1043 Survey of Chemistry I[3] or CH 1213 Chemistry I[3]	3
CH 1053 Survey of Chemistry II or CH 1223 Chemistry II	3
CRM 1003 Crime and Justice in America	3
MA 1313 College Algebra[3] or MA 1613 Calculus for Business & Life Science[3]	3
PHI 1123 Introduction to Ethics[3]	3
PSY 1013 General Psychology[3]	3
SO 1003 Introduction to Sociology[3]	3
SO/CRM 3133 Deviant Behavior	3
ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3
Computer Application Elective[1]	3
CLE Elective[1]	18
Natural Resources Mgmt. Elective[1]	17
Zoology requirement: BIO 3524 Bio of Verts	4
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.

<u>Wildlife, Fisheries and Aquaculture Science Concentration (WLFS)</u>

Advisor: Dr. Leslie Burger

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

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)

Advisor: Dr. Kevin M. Hunt

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

CH 1043 Survey of Chemistry I[3] or CH 1213 Chemistry I[3]	3
CH 1053 Survey of Chemistry II or CH 1223 Chemistry II	3
CRM 1003 Crime and Justice in America	3
MA 1313 College Algebra[3] or MA 1613 Calculus for Business & Life Science[3]	3
PHI 1123 Introduction to Ethics[3]	3
PSY 1013 General Psychology[3]	3
SO 1003 Introduction to Sociology[3]	3
SO/CRM 3133 Deviant Behavior	3
ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3
Computer Application Elective[1]	3
CLE Elective[1]	18
Natural Resources Mgmt. Elective[1]	17
Zoology requirement: BIO 3524 Bio of Verts	4
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, Fisheries and Aquaculture Science Concentration (WLFS)

Advisor: Dr. Leslie Burger

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]	3	ST 2113 Introduction to Statistics[3]	3
or ST 3123 Introduction to Statistical Inference[3]		or ST 3123 Introduction to Statistical Inference[3]	
WFA 4123 Wildlife & Fisheries Biometrics	3	WFA 4123 Wildlife & Fisheries Biometrics	3
WFLS Professional Electives[1]	21	WFLS Professional Electives[1]	21
Wildlife Biology Elective[1]	6	Wildlife Biology Elective[1]	6
Life Science Elective[1]	4	Life Science Elective[1]	4
Computer Application Elective[1]	3	Computer Application Elective[1]	3
Zoology elective	3	Zoology elective	3
Free elective	1	Free elective	1
Total Hours	124	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.		[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.	
<u>Wildlife Veterinary Medicine Concentration (WLVM)</u>		<u>Wildlife Veterinary Medicine Concentration (WLVM)</u>	
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:	
Advisor: Dr. Peter Allen		Advisor: Dr. Peter Allen	
BCH 4013 Principles of Biochemistry	3	BCH 4013 Principles of Biochemistry	3
BIO 3103 Genetics I	3	BIO 3103 Genetics I	3
BIO 3304 General Microbiology	4	BIO 3304 General Microbiology	4
CH 1213 Chemistry I[3]	3	CH 1213 Chemistry I[3]	3
CH 1211 Investigations in Chem I	1	CH 1211 Investigations in Chem I	1
CH 1223 Chemistry II	3	CH 1223 Chemistry II	3
CH 1221 Investigations in Chem II	1	CH 1221 Investigations in Chem II	1
CH 4513 Organic Chemistry I	3	CH 4513 Organic Chemistry I	3
CH 4511 Organic Chem Laboratory I	1	CH 4511 Organic Chem Laboratory I	1
CH 4523 Organic Chemistry II	3	CH 4523 Organic Chemistry II	3
CH 4521 Organic Chem Lab II	1	CH 4521 Organic Chem Lab II	1
MA 1613 Calculus for Business and Life Sciences[3]	3	MA 1613 Calculus for Business and Life Sciences[3]	3
or MA 1713 Calculus I[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] 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
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

<u>Wildlife-Agriculture Conservation Concentration (WLAC)</u>

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] or CH 1213 Chemistry I[3]	3
CH 1053 Survey of Chemistry II or CH 1223 Chemistry II	3
MA 1613 Calculus for Business and Life Sciences[3] or MA 1713 Calculus I[3]	3
PSS 3301 Soils Laboratory	1
PSS 3303 Soils	3
ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3
WFA 4123 Wildlife & Fisheries Biometrics[4]	3
WFA 4373 Principles and Practices of Conservation in Agricultural Landscapes	3
GIS Elective [1]	3
Crop Science Elective[1]	6

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
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] or CH 1213 Chemistry I[3]	3
CH 1053 Survey of Chemistry II or CH 1223 Chemistry II	3
MA 1613 Calculus for Business and Life Sciences[3] or MA 1713 Calculus I[3]	3
PSS 3301 Soils Laboratory	1
PSS 3303 Soils	3
ST 2113 Introduction to Statistics[3] or ST 3123 Introduction to Statistical Inference[3]	3
WFA 4123 Wildlife & Fisheries Biometrics[4]	3
WFA 4373 Principles and Practices of Conservation in Agricultural 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, 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.

<u>Human-Wildlife Interactions Concentration (HWI)</u>

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] or CH 1213 Chemistry I[3]	3
CH 1053 Survey of Chemistry II or CH 1223 Chemistry II	3
MA 1613 Calculus for Business and Life Sciences[3] or MA 1713 Calculus I[3]	3
PSS 3301 Soils Laboratory	1
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
WFA 4273 Ecology and Management of Human-Wildlife Conflicts	3
WFA 4283 Human-Wildlife Conflict Techniques	3
WFA 4513 Current Topics in Human-Wildlife Interactions	3
Zoology Elective[1]	3
Computer Application Elective[1]	3
Wildlife Biology Electives[1]	6
Life Science Electives[1]	7
HWI Professional Electives [1]	12
Free elective	1
Total Hours	124

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, 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.

<u>Human-Wildlife Interactions Concentration (HWI)</u>

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] or CH 1213 Chemistry I[3]	3
CH 1053 Survey of Chemistry II or CH 1223 Chemistry II	3
MA 1613 Calculus for Business and Life Sciences[3] or MA 1713 Calculus I[3]	3
PSS 3301 Soils Laboratory	1
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
WFA 4273 Ecology and Management of Human-Wildlife Conflicts	3
WFA 4283 Human-Wildlife Conflict Techniques	3
WFA 4513 Current Topics in Human-Wildlife Interactions	3
Zoology Elective[1]	3
Computer Application Elective[1]	3
Wildlife Biology Electives[1]	6
Life Science Electives[1]	7
HWI Professional Electives [1]	12
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.

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] or ST 3123 Introduction to Statistical Inference[3]	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

[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.

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] or ST 3123 Introduction to Statistical Inference[3]	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

Course requirements for 3+1 Wildlife Veterinary Medicine (pre-vet) students to obtain a B.S. degree in Wildlife, Fisheries and Aquaculture.

Because

1. **The entrance requirements for the MSU College of Veterinary Medicine satisfy the professional elective requirements for the**

		Wildlife, Fisheries and Aquaculture curriculum, **2. A number of students are enrolled in Wildlife, Fisheries and Aquaculture while satisfying their pre-veterinary requirements, and** **3. A Wildlife, Fisheries and Aquaculture B.S. degree will be useful to a practicing veterinarian,** **the following requirements for those electing to apply for a Bachelor of Science degree in Wildlife, Fisheries and Aquaculture after successfully completing the first year of Veterinary Medicine are listed:** **General Education Requirements** **Departmental Core** **WLVM Concentration**	 **30** **38** **54**

MISSISSIPPI STATE UNIVERSITY

DEPARTMENT OF WILDLIFE,
FISHERIES, AND AQUACULTURE
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cfr.msstate.edu

Date: April 19, 2024
To: University Committee on Courses and Curriculum
From: Leslie Burger, Chair, WFA Curriculum Committee
RE: Support of changes in the WFA degree program

This letter is written in support of changes to the Wildlife, Fisheries and Aquaculture (WFA) undergraduate degree program, primarily to add language that outlines an accelerated pre-veterinary medicine option within the Wildlife Veterinary Medicine (WLVM) concentration, as well as to correct an advisor's office location.

In 2018, the WFA Curriculum Committee and faculty deleted WFA's Pre-Veterinary Medicine (PVLM) 3+1 concentration. At the time of its deletion, this accelerated program had not generated any graduates, and it created confusion for students with respect to the 4-year WLVM concentration. However, since 2021, there have been WFA students who have been able to complete all but 9 credit hours of their WLVM curriculum prior to matriculating to the College of Veterinary Medicine (CVM) under the early entry program. Modifying the WFA degree program as noted in the enclosed Degree Outline Form will enable students to complete their BS after their first year of veterinary school and eliminate the need to require special permission to use CVM course credits in fulfillment of WLVM professional electives.

The signatures below by WFA Curriculum Committee members indicate support for this request. WFA faculty, as well, support these changes which improve efficiencies in and effectiveness of our undergraduate degree program.

Leslie Burger Digitally signed by Leslie Burger Date: 2024.04.17 10:12:03 -05'00'

Leslie Burger, Associate Teaching Professor

Steve Demarais Digitally signed by Steve Demarais Date: 2024.04.18 10:56:05 -05'00'

Steve Demarais, Professor

Christopher R. Ayers Digitally signed by Christopher R. Ayers Date: 2024.04.17 13:49:44 -05'00'

Chris Ayers, Assistant Teaching Professor

Peter Allen Digitally signed by Peter Allen Date: 2024.04.17 11:03:36 -05'00'

Peter Allen, Professor

Digitally signed by Kevin Hunt DN: cn=Kevin Hunt, o=WFA, ou, email=kevin.hunt@msstate.edu, c=US Date: 2024.04.17 14:10:32 -05'00'

Kevin Hunt, Professor