

UNIVERSITY COMMITTEE ON COURSES AND CURRICULA

A MEMORANDUM

DATE:

November 23, 2019

TO:

UCCC Members

FROM:

Dr. Dana Pomykal Franz, Chair

SUBJECT:

December 5, 2019 Meeting

The agenda and proposals for the meeting on **Thursday, December 5, 2019 beginning** at 1:30 p.m. are enclosed. The meeting will be held in **Room 324 of the Student Union**. Please contact the UCCC office if you are unable to attend.

The minutes from the November 15, 2019 UCCC meeting will be forwarded in a separate email.

Thank you.

Enclosures:

Course/Curriculum Proposals

AGENDA UNIVERSITY COMMITTEE ON COURSES AND CURRICULA December 5, 2019

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

ACADEMIC AFFAIRS

Modification	EAP 5323	Academic Research and Writing
Modification	LSK 1101	Freshman Success Strategies I

AGRICULTURE AND LIFE SCIENCES

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Modification +Online/Distance	ADS 2313	Animal Behavior and Training
Addition	ADS 3413	Companion Animal Nutrition
+Online/Distance		1
Addition	ADS 4713/6713	Human-Animal Bond/Shelter Management
+Online/Distance		
Modification	AELC 4503/6503	International Agricultural Education
+Online/Distance		
+Online/Distance	FNH 6293	Micronutrients: Human Metabolism
	(split level with FNH 4293)	
Addition	FNH 8773	The Human Microbota and Optimal Health
+Online/Distance		
Addition	<u>GA 4101</u>	MANRRS Leadership Development
+Online/Distance	HS 1701	Survey of Human Sciences

ARCHITECTURE, ART & DESIGN

Ī	0.11.701	A D/T 21.62	H' CO 1: D :
	+Online/Distance	ART 3163	History of Graphic Design

ARTS & SCIENCES

Addition	AN 4333	Anthropology of Violence
Modification	CO 4233	Gender and Media
+Online/Distance		

BUSINESS

+Online/Distance	MKT 4143/6143	Sales Management
+Online/Distance	MKT 4533	Marketing Research

EDUCATION

Addition	RDG 8723	Seminar in Literacy Education
+Online/Distance		

4. Degree proposals by college/school

BUSINESS

Modification	BBA	Marketing
	Minor	

FORESTRY RESOURCES

Modification BS Forestry	
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VETERINARY SCIENCE

Name Change	PhD	Veterinary Medical Science to Veterinary and Biomedical Sciences
Name Change	MS	Veterinary Medical Science to Veterinary and Biomedical Sciences

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 Business

Department: Department of Marketing,

Quantitative Analysis & Business Law

Contact Person: Melissa Moore	Mail Stop: 9582	E-mail: MLM145@msstate.edu
Nature of Change: Modify Add previously approved	Date Initiated:	Effective Date:
course to Major Electives	Nov 2019	Upon Approval
course to SCM Concentration	Nov 2019	Upon Approval
courses to Minor Elective	Nov 2019	Upon Approval
Summary of Proposed Changes: Add course to Marketing Major cur MKT 3513 Marketing Internship	rriculum that was previou	usly approved.
Add course to SCM Concentration MKT 3513 Marketing Internship	curriculum that was prev	viously approved.
Add courses to Minor curriculum the MKT 4223 Social Media Marketing MKT 3513 Marketing Internship Approved:		oved.
Department Head	11-15	-19
Jaum Marly Chair/College or School Curriculum Com		-19 9/19
Dean of College or School	11/1	9/19
Chair, University Committee on Courses a	and Curricula	
Chair, Graduate Council(if applicable)	2	
Chair, Deans Council		

Current

Degree Description

This department offers one major (Marketing), two minors (Marketing and Business Analytics), and three concentrations (PGA Golf Management, Supply Chain Management and Integrated Digital Marketing). In addition, the department offers marketing, quantitative analysis and business law courses to support other programs in the college and across campus.

Marketing Major (MKT)

Marketing consists of three significant interlocking activities:

- understanding consumers along with their wants and unfilled needs;
- developing improved products and services that meet the identified needs of consumers; and
- communicating the benefits of the improved products and services through advertising, public relations, promotion and effective salesmanship.

Courses offered within this unit prepare students to provide marketing leadership and assume a variety of career paths, including field sales, brand management, marketing communications, store management, procurement, logistics, and small business.

PGA Golf Management Concentration (PGM)

Director: Jeffrey W. Adkerson, PGA Office: 309 McCool Hall; Phone: (662) 325-3161 The PGA Golf Management Program is the second oldest PGA Golf Management Program program accredited by the Professional Golfers' Association of America (PGA). The Program prepares graduates for careers as Class A PGA Professionals at golf courses and other industry businesses. A PGA Professional must have a broad assortment of marketing, management and other business-related skills to be effective in the golf profession today. The PGA Golf Management Program is a demanding four and one half year curriculum.

The 4 ½ year program leads to a bachelor's degree in business administration with a major in marketing. In addition to the requirements for a degree in marketing, students must complete courses in turf management, food management, landscape architecture, human resource management; and all PGA Golf Management requirements. Students must also complete a minimum of 16 months of co-op under the guidance of the MSU Cooperative Education Program. These work experiences are under the tutelage of Class A PGA Professionals throughout the country. Students are required to be continuously enrolled at MSU as full-time

PROPOSED Degree Description

This department offers one major (Marketing), two minors (Marketing and Business Analytics), and three concentrations (PGA Golf Management, Supply Chain Management and Integrated Digital Marketing). In addition, the department offers marketing, quantitative analysis and business law courses to support other programs in the college and across campus.

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PGA Membership. Please see PGA Golf Management staff to discuss PGA Membership Requirements. PGA Golf Management Graduation Requirements. Students must complete the last semester in school (not on coop). They must also pass the PGA Playing Ability Test, complete 16 months of co-op, and complete all levels of the PGA Golf Management Program.

PGA Golf Management Admission Procedures. The PGA Golf Management Program has a limited enrollment. The current enrollment limit is 200; however, this number is subject to change based on the placement outlook and PGA Golf Management and Co-op budget constraints. The number of students admitted each year is determined by graduation and attrition of the previous year. Students are admitted once per year for entrance in the fall semester. The deadline for completed applications is May 1 each year. Entrance Requirements

Freshmen:

- Meet MSU regular admission requirements
- Have a USGA Handicap of 8 or less Transfer Students:
- Meet MSU admission requirements
- 2.5 GPA with maximum of 62 applied semester hours
- Have a USGA Handicap of 8 or less Non-Citizen:
- The MSU PGA Golf Management Program is sanctioned by PGA of America to educate and train graduates to become PGA Members.
 International students must complete and sign a non-citizen form as required by the PGA of America

Supply Chain Management Concentration (SCM)

Supply chain management continues to play a major role in the national and international economy. As businesses continue to focus on logistics and transportation improvements, job opportunities for graduates in the supply chain management concentration increase. The curriculum in the supply chain management concentration will acquaint the student with the issues, perspectives, and techniques associated with transportation and logistics theory and practice. It offers in-depth treatment of distribution, supply, warehousing, inventory control, and operations in the modes of transportation.

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Integrated Digital Marketing Concentration (IDM)

The internet and digital marketing have grown to become an important resource for organizations and consumers. As firms and individuals continue to focus on utilizing digital tools and applications for all aspects of marketing from product development, consumer behavior and customer touch points, job opportunities for graduates in the integrated digital marketing concentration increase. The curriculum in the integrated digital marketing concentration will provide the student with the strategic application skills needed in the digital world. Students will be exposed to industry standard tools and techniques through the analyses and assessment of leading firm practices and the development of comprehensive applied projects.

Degree: Bachelor of Business Administration

Major: Marketing Concentration:

Supply Chain Management (SCM)
Professional Golf Management (PGM)
Integrated Digital Marketing (IDM)

Integrated Digital Marketing Concentration (IDM)

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Degree: Bachelor of Business Administration

Major: Marketing Concentration:

Supply Chain Management (SCM)
Professional Golf Management (PGM)
Integrated Digital Marketing (IDM)

CURRENT CURRICULUM OUTLINE

English Composition

EN 1103	English Composition I	3
or EN 1163	Accelerated Composition I	
EN 1113	English Composition II	3
or EN 1173	Accelerated Composition II	
Mathematics		
MA 1313	College Algebra	3
MA 1613	Calculus for Business and Life Sciences I	3
BQA 2113	Business Statistical Methods I	3
Science		
2 Lab Sciences fro courses	m General Education	6
Humanities		

6

See General Education courses

CURRENT CURRICULUM OUTLINE

English Composition

EN 1103	English Composition I	3
or EN 1163	Accelerated Composition I	
EN 1113	English Composition II	3
or EN 1173	Accelerated Composition II	
Mathematics		
MA 1313	College Algebra	3
MA 1613	Calculus for Business and Life Sciences I	3
BQA 2113	Business Statistical Methods I	3
Science		
2 Lab Sciences fro courses	om General Education	6
Humanities		

6

See General Education courses

See General Edu	cation courses	3	See General Edu	cation courses	3
Social Sciences			Social Sciences		
PS 1113	American Government	3	PS 1113	American Government	3
Introductory cours	se in AN, PSY or SO	3	Introductory cours	se in AN, PSY or SO	3
College Core			College Core		
BQA 3123	Business Statistical Methods II	3	BQA 3123	Business Statistical Methods II	3
ACC 2013	Principles of Financial Accounting	3	ACC 2013	Principles of Financial Accounting	3
ACC 2023	Principles of Managerial Accounting	3	ACC 2023	Principles of Managerial Accounting	3
EC 2113	Principles of Macroeconomics	3	EC 2113	Principles of Macroeconomics	3
EC 2123	Principles of Microeconomics	3	EC 2123	Principles of Microeconomics	3
BL 2413	The Legal Environment of Business	3	BL 2413	The Legal Environment of Business	3
BIS 3233	Management Information Systems	3	BIS 3233	Management Information Systems	3
FIN 3123	Financial Management	3	FIN 3123	Financial Management	3
MKT 3013 MKT 3323	Principles of Marketing International Logistics	3 3	MKT 3013 MKT 3323	Principles of Marketing International Logistics	3
MGT 3113	Principles of Management and Production	3	MGT 3113	Principles of Management and Production	3
BUS 4853	Business Policy	3	BUS 4853	Business Policy	3
Oral Communication	on Requirement		Oral Communication	on Requirement	
CO 1003	Fundamentals of Public Speaking	3	CO 1003	Fundamentals of Public Speaking	3
or CO 1013	Introduction to Communica	ation	or CO 1013	Introduction to Communica	ition
Computer Literacy	Requirement		Computer Literacy	Requirement	
BIS 1012	Introduction to Business Information Systems	2	BIS 1012	Introduction to Business Information Systems	2

MGT 3213	Organizational Communications	3	MGT 3213	Organizational Communications	3
Major Core			Major Core		
International El	ective (see advisor for	3	International El options)	ective (see advisor for	3
MKT 4413	Consumer Behavior	3	MKT 4413	Consumer Behavior	3
MKT 4533	Marketing Research	3	MKT 4533	Marketing Research	3
MKT 4813	Marketing Management	3	MKT 4813	Marketing Management	3
Choose four of	the following:	12	Choose four of	the following:	12
MKT 3213	Retailing		MKT 3213	Retailing	
		(MKT 3513	Marketing Internship (with prior approval)	
MKT 4113	Personal Selling		MKT 4113	Personal Setting	
MKT 4123	Advertising		MKT 4123	Advertising	
MKT 4213	Internet Marketing		MKT 4213	Internet Marketing	
MKT 4223	Social Media Marketing		MKT 4223	Social Media Marketing	
MKT 4423	Strategic Brand Management		MKT 4423	Strategic Brand Management	
MKT 4613	Services Marketing		MKT 4613	Services Marketing	
MKT 4143	Sales Management		MKT 4143	Sales Management	
MKT 3933	International Marketing		MKT 3933	International Marketing	
MKT 4033	International Transportation		MKT 4033	International Transportation	
MKT 4313	Physical Distribution Management		MKT 4313	Physical Distribution Management	
MKT 4333	International Supply Chain Management		MKT 4333	International Supply Chain Management	
Non-business e	electives (see advisor for	13	Non-business e	electives (see advisor for	13
Free electives (see advisor for options)	6	Free electives (see advisor for options)	6
Total Hours		123	Total Hours		123

PGA Golf Management Concentration (PGM)

Director: Jeffrey W. Adkerson, PGA Office: 309 McCool Hall; Phone: (662) 325-3161

Concentration Course Requirements

PGA Golf Management students are required to take all courses listed under the General Education and College requirements for Marketing in addition to the

following courses:

MKT 2211	PGM Level I Seminar	1	
MKT 2213	PGA Golf Facility Management I	3	
MKT 2223	Introduction to Golf Swing Instruction	3	
MKT 2233	Intermediate Golf Instruction	3	
MKT 2243	PGA Golf Facility Management II	3	
MKT 2252	Advanced Golf Instruction	2	
MKT 3213	Retailing	3	
MKT 4234	Golf Operations Management	4	
MKT 4413	Consumer Behavior	3	
MKT 4533	Marketing Research	3	
MGT 3513	Introduction to Human Resource Management	3	
International options)	Elective (see advisor for	3	
Choose three	9		
MKT 3933	International Marketing		
MKT 4113	Personal Selling		
MKT 4123	Advertising		
MKT 4143	Sales Management		
MKT 4213 MKT 4223	Internet Marketing Social Media Marketing		
MKT 4423	Strategic Brand Management		
MKT 4613	Services Marketing		
Total Hours	Total Hours		
Co-op Work			

PGA Golf Management Concentration (PGM)

Director: Jeffrey W. Adkerson, PGA Office: 309 McCool Hall; Phone: (662) 325-3161

Concentration Course Requirements

PGA Golf Management students are required to take all courses listed under the General Education and College requirements for Marketing in addition to the following courses:

MKT 2211	PGM Level I Seminar	1
MKT 2213	PGA Golf Facility Management I	3
MKT 2223	Introduction to Golf Swing Instruction	3
MKT 2233	Intermediate Golf Instruction	3
MKT 2243	PGA Golf Facility Management II	3
MKT 2252	Advanced Golf Instruction	2
MKT 3213	Retailing	3
MKT 4234	Golf Operations Management	4
MKT 4413	Consumer Behavior	3
MKT 4533	Marketing Research	3
MGT 3513	Introduction to Human Resource Management	3
International E options)	Elective (see advisor for	3
Choose three	of the following:	9
MKT 3933	International Marketing	
MKT 4113	Personal Selling	
MKT 4123	Advertising	
MKT 4143	Sales Management	
MKT 4213 MKT 4223	Internet Marketing Social Media Marketing	
MKT 4423	Strategic Brand Management	
MKT 4613	Services Marketing	
Total Hours		123
Co-op Work		

PGA Golf Management students must complete a minimum of 16 months of co-op work with Class A PGA professionals at country clubs, public golf courses, golf resorts, or other golf facilities. A 2.25 cumulative GPA on all work at MSU is required to earn credit for a specific work experience.

PGA Golf Management

PGA Golf Management students will complete all PGA Golf Management requirements including testing, which will be conducted on the Mississippi State University campus by officials of the PGA. An initial lab fee and a semester lab fee is charged to students each semester on campus to cover the PGA Golf Management seminars, tests, workshops and playing privileges at the MSU Golf Course. A typical schedule of classes and co-ops are as follows:

Freshman Year	
Fall School	16
Spring School	16
Summer Co-op	
Sophomore Year	
Fall School	16
Spring School	16
Summer Co-op	
Junior Year	
Fall Co-op	
Spring School	16
Summer School	12
Senior Year	
Fall School	16
Spring Co-op	
Summer Co-op	
Fall School (Graduation)	16

Supply Chain Management Concentration (SCM)

Concentration Course Requirements

Supply Chain Management students are required to take all courses listed under the General Education and College requirements for Marketing in addition to the following courses:

International Elective (see advisor for options)

PGA Golf Management students must complete a minimum of 16 months of co-op work with Class A PGA professionals at country clubs, public golf courses, golf resorts, or other golf facilities. A 2.25 cumulative GPA on all work at MSU is required to earn credit for a specific work experience.

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Freshman Year	
Fall School	16
Spring School	16
Summer Co-op	
Sophomore Year	
Fall School	16
Spring School	16
Summer Co-op	
Junior Year	
Fall Co-op	
Spring School	16
Summer School	12
Senior Year	
Fall School	16
Spring Co-op	
Summer Co-op	
Fall School (Graduation)	16

Supply Chain Management Concentration (SCM)

Concentration Course Requirements

Supply Chain Management students are required to take all courses listed under the General Education and College requirements for Marketing in addition to the following courses:

International Elective (see advisor for options)

3

3

MKT 3323	International Logistics	3
MKT 4033	International Transportation	3
MKT 4313	Physical Distribution Management	3
MKT 4333	International Supply Chain Management	3
MKT 4413	Consumer Behavior	3
MKT 4533	Marketing Research	3
MKT 4813	Marketing Management	3
Non-business options)	electives (see advisor for	13
Free electives		6
Total Hours		123

Integrated Digital Marketing Concentration (IDM)

Concentration Course Requirements IDM students are required to take all courses listed under the General Education and College requirements for Marketing in addition to the following courses:

MKT 4213	Internet Marketing	3
MKT 4223	Social Media Marketing	3
Choose two	o of the following:	6
MKT 4123	Advertising	
MKT 4423	Strategic Brand Management	
MKT 3513 approval)	Marketing Internship (with prior	
MKT 3213	Retailing	

Total Hours

MK + 3323	International Logistics	3
MKT 3513	Marketing Internship (with prior approval)	3
MKT 1033	International Transportation	3
MKT 4313	Physical Distribution Management	3
MKT 4333	International Supply Chain Management	3
MKT 4413	Consumer Behavior	3
MKT 4533	Marketing Research	3
MKT 4813	Marketing Management	3
Non-business options)	electives (see advisor for	13
Free electives	S	6
Total Hours		123

Integrated Digital Marketing Concentration (IDM)

Concentration Course Requirements IDM students are required to take all courses listed under the General Education and College requirements for Marketing in addition to the following courses:

MKT 4213 Internet Marketing	3
MKT 4223 Social Media Marketing	3
Choose two of the following:	6
MKT 4123 Advertising	
MKT 4423 Strategic Brand Management	
MKT 3513 Marketing Internship (with prior	
approval)	
MKT 3213 Retailing	

Total Hours

123

MARKETING MINOR

CURRI	ENT Degree		PROPO	OSED Degree	
Descrip			Descrip	tion	
Business stude	inor is offered to both Business ents. A minor in Marketing is att wing courses:			inor is offered to both Business a ents. A minor in Marketing is atta wing courses:	
MKT 3013	Principles of Marketing	3	MKT 3013	Principles of Marketing	3
MKT 4413	Consumer Behavior	3	MKT 4413	Consumer Behavior	3
Choose four	of the following:	12	Choose four	of the following:	12
MKT 3213	Retailing		MKT 3213	Retailing	
MKT 3323	International Logistics		MKT 3323	International Logistics	
			MKT 3513	Marketing Internship)
MKT 3933	International Marketing		MK1 3933	International Marketing	
MKT 4033	International Transportation		MKT 4033	International Transportation	
MKT 4113	Personal Selling		MKT 4113	Personal Selling	
MKT 4123	Advertising		MKT 4123	Advertising	
MKT 4143	Sales Management		MKT 4143	Sales Management	
MKT 4213	Internet Marketing		MV-1 4213	Internet Marketing	
			(MKT 4223	Social Media Marketing)
MKT 4333	International Supply Chain Management		MNT 4333	International Supply Chain Management	
MKT 4423	Strategic Brand Managemer	nt	MKT 4423	Strategic Brand Management	
MKT 4533	Marketing Research		MKT 4533	Marketing Research	
MKT 4613	Services Marketing		MKT 4613	Services Marketing	
MKT 4313	Physical Distribution Management		MKT 4313	Physical Distribution Management	

Students interested in this minor should contact a Marketing advisor.	Students interested in this minor should contact a Marketing advisor.

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES:

A. Degree Modification Justification.

MKT 4223 was approved and added to the major in 2019. This reflects this addition for the minor.

MKT 3513, an existing class, is being added to the minor's, concentrations and the major's electives.

LEARNING OBJECTIVES

- **Critical Thinking**: Students will be able to analyze and integrate information to solve problems and make business decisions.
- **Information Technology**: Students will demonstrate proficiency in the in the use of information technology tools and concepts vital to productivity
- Communication: Students will demonstrate proficiency in written and spoken communication skills.
- Ethics: Students will demonstrate an understanding of the legal and ethical ramifications of business decisions.
- Teamwork: Students will exhibit an understanding of interpersonal and team dynamics.
- **Diversity**: Students will understand the impact of a demographically and culturally diverse business environment.

Additional questions:

1. Will this program change meet local, state, regional, and national educational and cultural needs?

Yes, with the growth and widespread use of social media by firms, students need a foundational understanding of online communication principles having these courses for a minor will result in graduates that have the necessary skills and knowledge for their positions.

2. Will this program change result in duplication in the System?

3. Will this program change/advance student diversity within the discipline?

The revised curriculum will make the overall program more competitive to prospective students. This should increase the program's ability to recruit a diverse population of students.

4. Will this program change result in an increase in the potential placement of graduates in MS, the Southeast, and the U.S.?

The addition of these electives will provide students with a critical diverse skill set. Our

graduates need this exposure to be competitive in their career endeavors.

5. Will this program change result in an increase in the potential salaries of graduates in MS, the Southeast, and the U.S.?

With the additional technology skills gained, this may increase salaries. It is possible that students may more readily communicate their skill sets and potentially negotiate higher salaries.

- **4. SUPPORT** Letters of support are included with the proposal.
- 5. PROPOSED 4-LETTER ABBREVIATION

N/A

6. EFFECTIVE DATE: Upon Approval.

MEMO:

College of Business
Dr. Marler
Chair, College Committee on Courses & Curriculum
McCool Hall



From: Robert Moore, Chair, Departmental Curriculum Committee

Date: November 6, 2019

Re: Letter of Support for Marketing Degree Changes

The Marketing faculty have reviewed the proposed addition of MKT 3513 Marketing Internship as an elective for the major, minor and the SCM concentration.

Additionally the Marketing faculty have reviewed the proposed addition of MKT 4223 Social Media Marketing as an elective for the minor.

(Please next 2 pages as well.)

Support for MKT 3513 Marketing Internship as an elective for the Marketing Major.

Faculty	Support	Do Not	Signature	Date
9		Support		
Dr. Frank Adams fadams@business.msstate.edu			For Older	11 N-V4
Dr. Chris Boone cboonee@business.msstate.edu			AAA A	12 Nov19
Dr. Mike Breazeale mbreazeale@business.msstate.edu			Mula Brulo	11/11/19
Dr. Joel Collier jcollier@business.msstate.edu			get till	11/11/19
Dr. Adam Farmer afarmer@business.msstate.edu			PM=	11/11/19
Dr. Jason Lueg jlueg@business.msstate.edu			123	11/11/19
Dr. Robert Moore rmoore@business.msstate.edu	0		fam L	11/11/19
Dr. Melissa Moore mmoore@business.msstate.edu			Volen	11-11-19
Dr. Nicole Ponder nponder@business.msstate.edu	V		Nicole Porday	11-15-19
Dr. Kevin Shanahan kshanahan@business.msstate.edu			Kun Shel	-11-15-19

Support for MKT 3513 Marketing Internship as an elective for the Marketing minor.

Faculty	Support	Do Not	Signature	Date
		Support		
Dr. Frank Adams			1101	1
fadams@business.msstate.edu			ATA CHUMA	11/00/19
Dr. Chris Boone			10.	11.0-11
cboonee@business.msstate.edu			Company of the same of the sam	12 NOV 19
Dr. Mike Breazeale		1	10/1 ////	11 10
mbreazeale@business.msstate.edu			Il whalf formule	12 Nov 19
Dr. Joel Collier			1019 601	11/11/10
jcollier@business.msstate.edu			Total Sell	11/11/17
Dr. Adam Farmer	80		11/11-	11/11/10
afarmer@business.msstate.edu			RUL	11/11/17
Dr. Jason Lueg	~		1/ -	1.1.1.1
jlueg@business.msstate.edu			1/1/2	1//11//9
Dr. Robert Moore			MOAL TOAR	11/16/100
rmoore@business.msstate.edu			participal services	11/11/19
Dr. Melissa Moore			10/11/1	
mmoore@business.msstate.edu			1/1 Cm	11-11-19
Dr. Nicole Ponder			ANGO Office de	1, , , , , ,
nponder@business.msstate.edu			Nicole Spinder	11-15-19
Dr. Kevin Shanahan			12/1	
kshanahan@business.msstate.edu			199	11-15-15

Support for MKT 3513 Marketing Internship as an elective for the Marketing SCM concentration

Faculty	Support	Do Not	Signature	Date
		Support		
Dr. Frank Adams fadams@business.msstate.edu			Fol dem	11 1/00 19
Dr. Chris Boone cboonee@business.msstate.edu	X		(Soly	12 Na19
Dr. Mike Breazeale mbreazeale@business.msstate.edu			Milal Brul	11/11/19
Dr. Joel Collier jcollier@business.msstate.edu	V		Gef, tel	11/11/19
Dr. Adam Farmer afarmer@business.msstate.edu	D		MM 3	11/11/19
Dr. Jason Lueg jlueg@business.msstate.edu			122	1)/11/19
Dr. Robert Moore rmoore@business.msstate.edu			Forutto	11/11/19
Dr. Melissa Moore mmoore@business.msstate.edu			2 Mm	11-11-19
Dr. Nicole Ponder nponder@business.msstate.edu			Nicotoponda	11-15-19
Dr. Kevin Shanahan kshanahan@business.msstate.edu				11-15-19
			100	

Support for MKT 4223 Social Media Marketing as an elective for the Marketing minor,

Faculty	Support	Do Not	Signature	Date
		Support		
Dr. Frank Adams fadams@business.msstate.edu			For Mens	11 Voos
Dr. Chris Boone cboonee@business.msstate.edu	X		(PA)	12Na 15
Dr. Mike Breazeale mbreazeale@business.msstate.edu	V		Melsal Brul	Illulia
Dr. Joel Collier jcollier@business.msstate.edu			Tel all	11/11/19
Dr. Adam Farmer afarmer@business.msstate.edu	2		Kll 3	4/11/19
Dr. Jason Lueg jlueg@business.msstate.edu	X		22	1/11/11
Dr. Robert Moore rmoore@business.msstate.edu	9		fath,	11/11/19
Dr. Melissa Moore mmoore@business.msstate.edu			7 len	11-11-15
Dr. Nicole Ponder nponder@business.msstate.edu			Nicole Pondu	11-15-19
Dr. Kevin Shanahan kshanahan@business.msstate.edu			4/	11-15-15

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: <u>Forest Resources</u> Department: <u>Forestry</u>

Contact Person: <u>Dr. Robert K. Grala</u>

Mail Stop: <u>9681</u> E-mail: <u>r.grala@msstate.edu</u>

Nature of Change: <u>Add new concentration</u>

Date Initiated: <u>10/07/19</u> Effective Date: <u>01/02/2020</u>

Current Degree Program Name: Bachelor of Science

Major: Forestry Concentration: 5 = FO/ENCO, FO/FOMG, FO/FP, FO/URBN, and

FO/WFMG

New Degree Program Name: no change

Major: no change **Concentration:** 6 = FO/ENCO, FO/FOMG, FO/FP, FO/URBN,

FO/WFMG, and (new) FO/BUSN

Summary of Proposed Changes:

Addition of a new concentration called "Forest Business Concentration" addresses the growing need of the forest products industry to hire graduates well-versed in traditional forestry and concurrently having strong business, timber procurement, communication, and analytical skills. The proposed concentration will enable students to attain business skills that will help them be more competitive in the job market and open new career opportunities in forest business. The concentration consists of core courses in forestry curriculum (57 credit hours), concentration-specific courses (27 credit hours), and general courses (47 credit hours). Concentration-specific courses include forest business electives (up to 9 credit hours), professional electives (up to 3 credit hours), and elective courses from the College of Business (15 to 21 credit hours depending on a selected business minor). The total number of credit hours in a forest business concentration will be 128 [FO 4113 (Forest Resource Economics) is listed both as a social/behavioral sciences course and a forestry curriculum core course], consistent with other concentrations in the undergraduate forestry program. Upon program completion, students will qualify for one of 11 minors offered by the College of Business. Recently developed FO 4253 (Timber Procurement) will serve as a forest business elective. Two additional forest business courses will be developed to support the proposed concentration: FO 4XX3 (Timberland Investment) and FO 4XX3 (Computer Applications for Forest Resources II). As individual business minors differ in the number of required credits hours (from 15 to 21), the difference in credit hours will be supplemented with forest business and professional electives.

Approved:	Date:	
Department Head	-	
Chair, College or School Curriculum Committee		
Dean of College or School		
Chair, University Committee on Courses and Curricula		
Chair, Graduate Council (if applicable)		
Chair, Deans Council		

DEGREE MODIFICATION OUTLINE FORM

All deleted courses and information are in italics and all new courses and information in bold.

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science	Degree: Bachelor of Science
Major: Forestry	Major: Forestry
Concentration: Environmental Concentration, Forest	Concentration: Environmental Concentration; Forest
Management, Forest Products, Urban Forestry, Wildlife	Management, Forest Products, Urban Forestry, Wildlife
Management	Management, Forest Business
Old degree description:	New degree description:
The forestry major is a science-based program leading to a Bachelor of Science degree in Forestry and consists of five concentrations: Environmental Conservation, Forest	The forestry major is a science-based program leading to a Bachelor of Science degree in Forestry and consists of <i>five</i> six concentrations: Environmental Conservation,
Management, Forest Products, Urban Forestry, and Wildlife Management Concentration. All concentrations are accredited by the Society of American Foresters (SAF). The	Forest Management, Forest Products, Urban Forestry, and Wildlife Management, and Forest Business Concentration. All concentrations are The Bachelor of
Forest Products concentration is also accredited by the Society of Wood Science and Technology (SWST). By combining a general education with specialized professional courses, the curriculum is designed to produce graduates	Science degree in Forestry is accredited by the Society of American Foresters (SAF). The Forest Products concentration is also accredited by the Society of Wood Science and Technology (SWST). By combining a general
who have skills in interpersonal communications, written and oral communications, and cultural understanding. Graduates of the major are qualified to become a Registered	education with specialized professional courses, the curriculum is designed to produce graduates who have skills in interpersonal communications, written and oral
Forester in Mississippi after successfully completing an examination for this purpose with the Board of Registration for Foresters (BORF) in Mississippi. Graduates are also	communications, and cultural understanding. Graduates of the major are qualified to become a Registered Forester in Mississippi after successfully completing an examination
qualified to become Society of American Forester Certified Foresters if successfully completing an exam.	for this purpose with the Board of Registration for Foresters (BORF) in Mississippi. Graduates are also qualified to become Society of American Forester
Graduates are fully qualified as entry-level professionals and prepared for career advancement into positions of	Certified Foresters if successfully completing an exam.
responsibility, while serving the current and future needs of society. The forestry major also prepares students for graduate school in any natural resource-related field.	Graduates are fully qualified as entry-level professionals and prepared for career advancement into positions of responsibility, while serving the current and future needs of society. The forestry major also prepares students for graduate school in any natural resource-related field.
Old concentration description:	New concentration description:
Environmental Concentration (FO/ENCO) Advisor: Dr. Heidi Renninger, Thompson Hall, room 313	Environmental Concentration (FO/ENCO) Advisor: Dr. Heidi Renninger, Thompson Hall, room 313
Today's forestry professionals strive to balance commodity production with environmental conservation. This concentration is designed for students interested in focusing on complex environmental issues in the realm of natural resource management. While being educated as foresters,	Today's forestry professionals strive to balance commodity production with environmental conservation. This concentration is designed for students interested in focusing on complex environmental issues in the realm of natural resource management. While being educated as
students concentrate on contemporary environmental concerns within three emphasis areas: social, land, and science.	foresters, students concentrate on contemporary environmental concerns within three emphasis areas: social, land, and science.

Forest Management Concentration (FO/FOMG)

Advisor: Dr. Krishna Poudel, Thompson Hall, room 315

Designed for students who intend to pursue professional careers in forest land and timber management and use in both the public and private sectors. Students may select from a wide range of electives to meet specific career objectives; for example, emphasis in areas such as business, communications, and geographical information systems in forestry and related sciences.

Forest Products Concentration (FO/FP)

Advisor: Dr. Joshua Granger, Thompson Hall, room 321

The use of wood as a material requires a fundamental understanding of wood properties, manufacturing processes, and the marketing of wood products. Students are prepared for positions in wood manufacturing, marketing, and research. Employers include lumber, pulp and paper mills, furniture manufacturers, and retail marketers of wood materials.

<u>Urban Forestry Concentration (FO/URBN)</u>

Advisor: Dr. Stephen C. Grado, Thompson Hall, room 357

Addresses an emerging need for the management of trees in towns and cities, and the urban/wildland interface. Urban and community foresters manage trees along city streets, in municipal parks, private woodlots, and utility right-of-ways. Employers include federal, state, and municipal governments, private consultants, and industry.

<u>Wildlife Management Conservation (FO/WFMG)</u> Advisor: Dr. Heather D. Alexander, Thompson Hall, room 327

Designed for students interested in careers that emphasize wildlife management within the context of multiple-use management of forest land. The concentration fulfills course requirements for certification as wildlife biologists by The Wildlife Society. Many graduates of this concentration undertake graduate studies in wildlife biology and related areas to qualify for entry-level positions as wildlife biologists.

Forest Management Concentration (FO/FOMG)

Advisor: Dr. Krishna Poudel, Thompson Hall, room 315

Designed for students who intend to pursue professional careers in forest land and timber management and use in both the public and private sectors. Students may select from a wide range of electives to meet specific career objectives; for example, emphasis in areas such as business, communications, and geographical information systems in forestry and related sciences.

Forest Products Concentration (FO/FP)

Advisor: Dr. Joshua Granger, Thompson Hall, room 321

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Wildlife Management Conservation (FO/WFMG) Advisor: Dr. Heather D. Alexander, Thompson Hall, room

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		Forest Business Concentration (FO/BUSN) Advisor: Dr. Robert K. Grala, Thompson Ha 343 Designed for students interested in careers the emphasize business aspects of forestry such a markets, timber trade, timberland investment insurance, forest real estate planning and investment and timber procurement. Students may select wide range of electives to meet specific career objectives. Depending on career objectives at learning interests, student will follow a careful designed set of core courses and electives, and coursework completion will qualify for one of following College of Business minors: account business administration, business information insurance, economics, entrepreneurship, final management, marketing, real estate, or busine analytics.	nat as timber at and restment, t from a r ad ully d upon f the ating, n systems, nce, ness
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English: EN 1103 English Composition I EN 1113 English Composition II	6	English: EN 1103 English Composition I EN 1113 English Composition II	6
Fine Arts (General Education): Any General Education Course	3	Fine Arts (General Education): Any General Education Course	3
Natural Sciences (2 labs required from Gen Ed): BIO 1134 Biology I BIO 1144 Biology II See concentrations for additional requirements.	8	Natural Sciences (2 labs required from Gen Ed): BIO 1134 Biology I BIO 1144 Biology II See concentrations for additional requirements.	8
Extra Science (Chemistry): CH 1043 Survey of Chemistry PH 1113 General Physics or Physical Science Elective (3) depending on a concentration	6	Extra Science (Chemistry): CH 1043 Survey of Chemistry PH 1113 General Physics or Physical Science Elective (3) depending on a concentration	6
Math (General Education): MA 1313 College Algebra ST 2113 Intro to Statistics	6	Math (General Education): MA 1313 College Algebra ST 2113 Intro to Statistics or BQA 2113 (Business Statistical Methods) ¹ ¹ Applies only to students who select the Forest Business Concentration and whose business minor includes a business statistics course. In other cases, students will take ST	6

6

Humanities (General Education):

Any General Education course.

2113.

<u>Humanities (General Education):</u> Any General Education course.

Social/Behavioral Sciences (Gen Ed): AEC 2713 Intro to Food and Resource Econ FO 4113 Forest Resource Economics	6	Social/Behavioral Sciences (Gen Ed): AEC 2713 Intro to Food and Resource Econ Business Elective (3) – (BL 2414 Legal Environment of Business) ² FO 4113 Forest Resource Economics ² Applies only to students who select the Forest Business Concentration and whose business minor includes a course qualifying as a substitute for AEC 2713. In other cases, students will take AEC 2713.	6
Oral Communication: CO 1003 Fund. Of Public Speaking	3	Social/Behavioral Sciences (Gen Ed): CO 1003 Fund. Of Public Speaking	3
Writing: AELC 3203 Prof. Wri in Ag, NR & Hu Sci	3	Writing: AELC 3203 Prof. Wri in Ag, NR & Hu Sci	3
Subtotal	47	<u>Subtotal</u>	47
Major Core Courses ³ :		Major Core Courses ³ :	
FO 1101 Forest Resource Survey FO 2113 Dendrology FO 2213 Forest Measurements FO 3012 Intro to Forest Communities FO 3015 Forest Descript. and Analysis FO 3103 Computer Appl. For. Res. FO 4113 Forest Resource Economics ⁴ FO 4123 Forest Ecology FO 4213 Forest Biometrics FO 4221 Practice of Silviculture Lab FO 4223 Practice of Silviculture FO 4231 Intro to Wood Supply Systems FO 4233 For. Op. and Harv. FO 4313 Spatial Tech. in Nat. Res. FO 4323 For. Res. Mgt. FO 4413 Natural Res. Policy FO 4423 Prof. Practice WFA 3031 Intro to Wild. and Fish. Prac. WFA 4153 Prin. Wildlife Cons. and Mgt. PSS 3303 Soils EPP 3124 Forest Pest Management	1 3 3 2 5 3 3 3 1 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3	FO 1101 Forest Resource Survey FO 2113 Dendrology FO 2213 Forest Measurements FO 3012 Intro to Forest Communities FO 3015 Forest Descript. and Analysis FO 3103 Computer Appl. For. Res. FO 4113 Forest Resource Economics ⁴ FO 4123 Forest Ecology FO 4213 Forest Biometrics FO 4221 Practice of Silviculture Lab FO 4223 Practice of Silviculture FO 4231 Intro to Wood Supply Systems FO 4233 For. Op. and Harv. FO 4313 Spatial Tech. in Nat. Res. FO 4323 For. Res. Mgt. FO 4413 Natural Res. Policy FO 4423 Prof. Practice WFA 3031 Intro to Wild. and Fish. Prac. WFA 4153 Prin. Wildlife Cons. and Mgt. PSS 3303 Soils EPP 3124 Forest Pest Management	1 3 3 2 5 3 3 3 1 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3
Subtotal 3 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. 4 FO 4113 is also used concurrently to meet university social/behavioral sciences requirement.	57	Subtotal ³ 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. ⁴ FO 4113 is also used concurrently to meet university social/behavioral sciences requirement.	57

Concentration Courses:		Concentration Courses:	
Courses to be taken in addition to forestry major core curriculum include:		Courses to be taken in addition to forestry major core curriculum include:	
Environmental Concentration (FO/ENCO) Advisor: Dr. Heidi Renninger, Thompson Hall, room 313		Environmental Concentration (FO/ENCO) Advisor: Dr. Heidi Renninger, Thompson Hall, room 313	
FO 3113 Forest Recreation Mgt. WFA 3133 App Aqua. & Terr. Eco. FO 4453 Remote Sensing Appl. FO 4463 Forest Hydro & Watershed Mgt. Emphasis Elective (14) ⁴	3 3 3 3 14	FO 3113 Forest Recreation Mgt. WFA 3133 App Aqua. & Terr. Eco. FO 4453 Remote Sensing Appl. FO 4463 Forest Hydro & Watershed Mgt. Emphasis Elective (14) ⁴	3 3 3 14
⁴ Electives are selected from the list of electives approved by the Department of Forestry faculty.		⁴ Electives are selected from the list of electives approved by the Department of Forestry faculty.	
Subtotal Curriculum Total	26 127	<u>Subtotal</u> <u>Curriculum Total</u>	26 127
Forest Management Concentration (FO/FOMG) Advisor: Dr. Krishna Poudel, Thompson Hall, room 315		Forest Management Concentration (FO/FOMG) Advisor: Dr. Krishna Poudel, Thompson Hall, room 315	
SBP 1103 Intro to Sustainable Bioproducts FO 3113 Forest Recreation Mgt. Business/Science Elective (9) ⁴ Professional Elective (9) ⁴ Free Elective (3) ⁴	3 3 9 9 3	SBP 1103 Intro to Sustainable Bioproducts FO 3113 Forest Recreation Mgt. Business/Science Elective (9) ⁴ Professional Elective (9) ⁴ Free Elective (3) ⁴	3 3 9 9 3
⁴ Electives are selected from the list of electives approved by the Department of Forestry faculty.		⁴ Electives are selected from the list of electives approved by the Department of Forestry faculty.	
Subtotal Curriculum Total	27 128	<u>Subtotal</u> <u>Curriculum Total</u>	27 128
Forest Products Concentration (FO/FP) Advisor: Dr. Joshua Granger, Thompson Hall, room 321		Forest Products Concentration (FO/FP) Advisor: Dr. Joshua Granger, Thompson Hall, room 321	
SBP 1103 Intro to Sustainable Bioproducts CH 1053 Survey of Chemistry II FP 4013 Wood Anatomy FP Processing Elective (3) ⁴ FP Elective (12) ⁴ SBP 3113 Biomaterial Phy. and Mechanics	3 3 3 3 12 3	SBP 1103 Intro to Sustainable Bioproducts CH 1053 Survey of Chemistry II FP 4013 Wood Anatomy FP Processing Elective (3) ⁴ FP Elective (12) ⁴ SBP 3113 Biomaterial Phy. and Mechanics	3 3 3 12 3

⁴ Electives are selected from the list of electives approved by the Department of Forestry faculty. Subtotal Curriculum Total	27 128	⁴ Electives are selected from the list of electives approved by the Department of Forestry faculty. Subtotal Curriculum Total	27 128
Urban Forestry Concentration (FO/URBN) Advisor: Dr. Stephen C. Grado, Thompson Hall, room 357 PS 1113 American Government PSS 2423 Plant Materials I LA 3623 Urban Planning REF 3333 Principles of Real Estate PSS 3473 Plant Material II FO 3113 Forest Recreation Mgt. PSS 4353 Arboricul. and Landsc. Mainten. FO 4472/4471 GIS Nat. Res. Mgt. + Lab FO 4683 Intro Urban Community Forestry Subtotal Curriculum Total	3 3 3 3 3 3 3 3 3 27 128	Urban Forestry Concentration (FO/URBN) Advisor: Dr. Stephen C. Grado, Thompson Hall, room 357 PS 1113 American Government PSS 2423 Plant Materials I LA 3623 Urban Planning REF 3333 Principles of Real Estate PSS 3473 Plant Material II FO 3113 Forest Recreation Mgt. PSS 4353 Arboricul. and Landsc. Mainten. FO 4472/4471 GIS Nat. Res. Mgt. + Lab FO 4683 Intro Urban Community Forestry Subtotal Curriculum Total	3 3 3 3 3 3 3 3 3 27 128
Wildlife Management Conservation (FO/WFMG) Advisor: Dr. Heather D. Alexander, Thompson Hall, room 327 Physical Science Elective (3) ⁴ WFA 3133 Appl. Aqua. & Terr. Ecol. Professional Elective (3) ² BIO 3524 Biology of Vertebrates WFA 4433 Mammalogy WFA 4443 Ornithology FO 4353 Natural Resource Law WFA 4243 Wildlife Techniques ⁴ Electives are selected from the list of electives approved by the Department of Forestry faculty. Subtotal Curriculum Total	3 3 3 4 3 3 3 3 3 25 126	Wildlife Management Conservation (FO/WFMG) Advisor: Dr. Heather D. Alexander, Thompson Hall, room 327 Physical Science Elective (3) ⁴ WFA 3133 Appl. Aqua. & Terr. Ecol. Professional Elective (3) ² BIO 3524 Biology of Vertebrates WFA 4433 Mammalogy WFA 4443 Ornithology FO 4353 Natural Resource Law WFA 4243 Wildlife Techniques ⁴ Electives are selected from the list of electives approved by the Department of Forestry faculty. Subtotal Curriculum Total	3 3 4 3 3 3 3 3 3 25 126

Forest Business Concentration (FO/BUSN) Advisor: Dr. Robert K. Grala, Thompson Hall, room 343 SBP 1103 Intro to Sustainable Bioproducts FO 3113 Forest Recreation Mgt. Forest Business Elective ⁵ Forest elective Business Elective from the College of Business (from 15 to 21 credit hours depending on a selected business minor) ⁵ If a business minor has a course load less than 21 credit hours required by a minor in business administration (e.g. 18 credit hours required by a minor in finance), a student will substitute the difference in credit hours by enrolling in an additional forest business elective. If a business minor	3 3 0-6 0- 15-21
·	
Subtotal Curriculum Total	27 128

JUSTIFICATION AND STUDENT LEARNING OUTCOMES

The U.S. forest sector has been undergoing numerous structural changes as it has been facing an increasing international competition. For example, many forest products companies have divested their forest lands and these lands are currently being managed by Timber Investment Management Organizations (TIMOs) and Real Estate Investment Trusts (REITs). As a result, forestry companies have been operating in increasingly global and more competitive business environment.

Privately- and publicly-owned forestry companies have been increasingly interested in hiring forestry graduates that are not only well-educated in terms of traditional forestry but also who have strong business, timber procurement, communication, and analytical skills. This is aimed to help these companies operate their businesses more efficiently and be able to more effectively adapt to changing market conditions by better understanding existing and future timber markets, optimizing supply chains, and identifying new business opportunities. Thus, it is important that graduates from Mississippi State University's forestry program attain these skills to meet forest industry needs and remain competitive in the job market.

Most of forest land in Mississippi and the southern United States is privately owned and forest industry has a heavy footprint in the region. As a result, majority of graduates from our program find employment in a private forestry sector. While our program has been offering individual courses related to timber procurement and timber harvesting, it does not offer a comprehensive suite of courses related to forest business that would enable our students to become more competitive when compared to graduates from peer institutions. Moreover, our program graduates, industry stakeholders and Forestry Advisory Board members indicated that while the program provides a strong traditional forestry education, our students would be more competitive if they attained more forest business skills.

Offering a dedicated Forest Business Concentration will also help our program to attract additional students who

otherwise might select forestry programs at other institutions due to perceived more formal and more comprehensive forest business course offerings. The proposed forest business concentration will offer a unique and tailored education path in forest business where students will complete program core courses and supplement them with elective forest business courses and elective courses from the College of Business to develop new skills that are necessary to become competitive in the forestry job market. Upon completion of the program and depending on completed elective courses, students will be eligible for one of 11 minors currently offered by the College of Business.

SUPPORT

The proposed new Forest Business Concentration has been unanimously approved by the Department of Forestry Undergraduate Curriculum Committee and faculty (see attached letters). Additional letters of support from the departments and colleges that potentially might be impacted by the creation of the new concentration have been attached and include Department of Sustainable Bioproducts, College of Business, and external stakeholders: Georgia-Pacific (GP), Resource Management Service, LLC. (RMS), and Westervelt Company.

PROPOSED 4-LETTER ABBREVIATION

FO/BUSN

EFFECTIVE DATE

January 2, 2020

Example of Forest Business concentration curriculum with a minor in Business Administration (21 credit hours).

2019-2020 Forestry Major Forest Business Concentration (FO/BUSN) Total Hours = 128

Freshman Year

Fall Semester		Spring Semeste	er
BIO 1134	Biological Sciences I	BL 2413***	Legal Environment of Business
CH 1043	Survey of Chemistry I	BIO 1144	Biological Sciences II
EN 1103	English Comp I (ACT English subscore 17)	CO 1003	Fund. of Public Speaking
FO 1101	Forest Resource Survey	EN 1113	English Composition II (EN 1103)
MA 1313	College Algebra (ACT math subscore 19)	ACC 2013***	Financial Accounting
			_

Sophomore Year

Fall Semester		Spring Semest	er
FO 2113	Dendrology (BIO 1144 or 2113)	FO 3103	Computer Appl. For. Resources
FO 3113	Forest Recreation Mgt.	FO 2213	Forest Measurements (ST 2113)
PH 1113	General Physics I (MA 1323 or ACT math subscore 26)	EC 2113***	Macroeconomics
PSS 3303	Soils (CH 1043)	Fine Arts Elect	ive (3)
BQA 2113***	Business Statistical Methods (MA 1613 or MA 1713 and BIS 1012 or equivalent)	Humanities Ele	ective (3)
SBP 1103	Intro to Sustainable Bioproducts		

Summer Field Program

FO 3012	Introduction to Forest Communities (PSS 3303, FO 2113)
FO 3015	Forest Description and Analysis (FO 2213, ST 2113)
FO 4231	Introduction to Wood Supply Systems (co-req FO 3015)
WFA 3031	Introduction to Wildlife and Fisheries Practices (JR)

Junior Year

Fall Semester		Spring Semeste	er
AELC 3203	Prof. Writing in AG, NR & Human Sci (JR) (EN 1103, EN	FO 4113	Forest Res. Econ. (AEC 2713)
	1113)		
EPP 3124	Forest Pest Management	FO 4213	Forest Biometrics (ST 2113 or equivalent)
FO 4123	Forest Ecology (FO 3012)	FO 4223	Practice of Silviculture (FO 4123)
FO 4233	For. Op. and Harv. (FO 3015, FO 4231)	FO 4221	Practice of Silviculture Lab (FO
			4123)
Humanities Elec	etive (3)	Forest Business	Elective (3)**
		EC 2123***	Microeconomics

Senior Year

Fall Semester		Spring Semest	er
FO 4313	Spatial Tech. in Nat. Res. (FO 3015)	FO 4413	Natural Res. Policy (SR)
FO 4323	For. Res. Mgt. (FO 4113, FO 4213, FO	FO 4423	Prof. Practice (FO 4323)
	4223, FO 4233)		
WFA 4153	Prin. Wildlife Cons. and Mgt. (SO)(WFA	Forest Business	Elective (3)
	3133 or FO 4123)		
MGT 3113***	Principles of Management & Production	BIS 3233***	Management Information Systems

^{*}Major core courses are bolded. Grades of C or better are required in these courses.

^{**}Forest business elective courses required for Forest Business Concentration.

^{***} Business courses required for Forest Business Concentration. These courses qualify for a business minor from College of Business. Only one D is allowed. No course substitutions are allowed beyond those specified in minor requirements.

Students in Forest Business Concentration are eligible for a one the following minors from College of Business by completing the specified courses:

Minor in Business Administration

Minor in Management

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 6 hours are forest business electives and 21 hours are business courses.

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 8 hours are forest business electives and 19 hours are business courses.

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Select any 7 of the following business courses:

BL 2413 Legal Environment of Business ACC 2013* Financial Accounting

ACC 2023 Managerial Accounting EC 2113 Macroeconomics

EC 2123 Microeconomics

FIN 3123* Financial Management MKT 3013 Principles of Marketing

MGT 3113* Principles of Management & Production

BIS 3233 Management Information Systems BQA 2113* Business Statistical Methods I BQA 3123* Business Statistical Methods II

Required business courses:

MGT 3113 Principles of Management & Production MGT 3513 Intro Human Resource Management

MGT 3813 Organizational Behavior

Select any 3 of the following business courses:

MGT 3323 Entrepreneurship

MGT 3333 Field Studies/Entrepreneurship

MGT 3823 Responsible Leadership

MGT 4153 Management Seminar

MGT 4533 Advanced Human Resource Management

MGT 4543 Compensation Management MGT 4563 Staffing in Organizations MGT 4613 Cross-Cultural Management

MGT 4713 Quality in Organizations

Minor in Economics

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 9 hours are forest business electives, 3 hours are professional electives, and 15 hours are business courses.

Minor in Marketing

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 9 hours are forest business electives and 18 hours are business courses.

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Required business courses**:

EC 2113 Principles of Macroeconomics EC 2123 Principles of Microeconomics

Select any 3 of the following business courses**:

EC 3113 Intermediate Macroeconomics*

EC 3123 Intermediate Microeconomics*

EC 3333 Managerial Economics

EC 3423 Economics of Regulation & Antitrust

EC 3513 Comparative Economic Policy

EC 4000 Directed Individual Study

EC 4183 US Economic History

EC 4213 Personnel Economics

Required business courses:

MKT 3013 Principles of Marketing MKT 4413 Consumer Behavior

Select any 4 of the following business courses:

MKT 3323 International Logistics

MKT 3213 Retailing

MKT 3933 International Marketing

MKT 4033 International Transportation

MKT 4113 Personal Selling

MKT 4123 Advertising

MKT 4143 Sales Management

MKT 4213 Internet Marketing

^{*}Indicates a pre-requisite for the MBA program.

EC 4223 Labor Law & Employment Policy

EC 4233 Labor Economics

EC 4303 International Economic Development

EC 4323 International Economics

EC 4423 Public Finance

EC 4433 State & Local Finance

EC 4523 History of Economic Thought

EC 4643 Economic Forecasting & Analysis

EC 4713 Industrial Organization

EC 4990 Special Topics in Economics

*Indicates courses offered fall and spring and once during the summer.

** ECON minors must have grades of C in all upper level (3000-4000 level) ECON courses.

Minor in Real Estate

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 9 hours are forest business electives, 3 hours are professional electives, and 15 hours are business courses.

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Required business courses:

REF 3333 Principles of Real Estate REF 3433 Real Property Evaluation

REF 4333 Real Estate Law

Select any 2 of the following business courses:

REF 4153 Real Estate Investments REF 4253 Mortgage Financing

EC 4313 Intro to Regional Economic Development

Minor in Entrepreneurship

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 9 hours are forest business electives, 2 hours are professional electives, and 16 hours are business courses.

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Required business courses:

MGT 3323 Entrepreneurship

MGT 3333 Field Studies in Entrepreneurship BL 4243 Legal Aspects of Entrepreneurship

FIN 4323 Entrepreneurial Finance

MKT 4423 Strategic Brand Management

MKT 4313 Physical Distribution Management

MKT 4333 International Supply Chain Management

MKT 4423 Branding

MKT 4533 Marketing Research MKT 4613 Services Marketing

Minor in Insurance

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 9 hours are forest business electives, 3 hours are professional electives, and 15 hours are business courses.

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Required insurance courses:

INS 3103 Principles of Insurance (Jr standing) INS 3203 Property and Casualty Insurance INS 3303 Life and Health Insurance

INS 4503 Enterprise Risk Management (INS 3103) (Only in Spring)

Select any 1 of the following insurance courses:

INS 3403 Financial Planning (FIN 3123)

INS 3503 Employee Benefits

Minor in Finance

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 9 hours are forest business electives and 18 hours are business courses.

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Required finance courses:

FIN 3113 Financial Systems FIN 3123 Financial Management

FIN 3723 Financial Markets & Institutions FIN 4223 Intermediate Financial Management

FIN 4423 Investments

Minor in Business Analytics

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 9 hours are forest business electives, 3 hours are professional electives, and 15 hours are business courses.

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Select a 3 of the following analytics skill courses:

BQA 4413/6413 Business Forecasting & Predictive Analytics

BQA 4423/6423 Business Decision Analytics ECON 4443/6643 Econ Forecasting & Analysis

BIS 3753 Business Database Systems

Select any 2 of the following analytics application

courses:

ACC 3003 Accounting Systems I ACC 3053 Accounting Systems II BIS 4533 Decision Support Systems

MKT 4333 International Supply Chain Management

MKT 4533 Marketing Research

MKT 4033 International Transportation

Minor in Accounting

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 9 hours are forest business electives, 3 hours are professional electives, and 15 hours are business courses.

Forest business electives:

FO 4253 Timber Procurement

FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Required accounting courses*:

ACC 3023 Intermediate Accounting I

ACC 3033 Intermediate Accounting II

Select any 3 of the following accounting courses*:

ACC 3003 Accounting Info Systems I

ACC 3013 Cost Accounting

ACC 3053 Accounting Info Systems II

ACC 4013 Income Tax I

ACC 4063 Income Tax II

ACC 4033 Auditing

Minor in Business Information Systems

A student satisfies the requirements of Forest Business Concentration and concurrently qualifies for this minor if she/he takes 27 concentration-specific credit hours of which 9 hours are forest business electives, 3 hours are professional electives, and 15 hours are business courses.

Forest business electives:

FO 4253 Timber Procurement FO 4XX3 Timberland Investment

FO 4XX3 Computer Applications for Forest Resources II

Required business courses*:

BIS 1523 Web Development I BIS 2523 Web Development II

<u>Select any 3 of the following business courses*:</u>

BIS 3523 Advanced Languages I

BIS 3753 Business Database Systems

BIS 4113 BIS Security Management

BIS 4513 Microcomputers and Networks

BIS 4523 Business Programming w/ COBOL (repl. Adv Lang II)

BIS 4533 Decision Support Systems

BIS 4753 Structured Systems Analysis & Design

BIS 4763 BIS Senior Seminar

*A minimum GPA of 3.00 is required in the 15 hours.

ACC 4023 Advanced Accounting ACC 4043 Municipal & Gov Accounting ACC 4053 International Accounting

*Courses are offered through the School of Accountancy

Elective List Forestry - Forest Business Concentration

Professional Electives (Can be applied as Business/Science electives)				
ABE 2873	Land Surveying (MA 1323)			
BIO 3103	Genetics (MA 1313, BIO 1134, or BIO 2113)			
BIO 3104	Ecology (BIO 1134)			
BIO 4203	Taxon. of Spermatophyte (BIO 2113 & 2213)			
BIO 4213	Plant Ecology			
EPP 4154	General Entomology			
EPP 4263	Prin. Insect Pest Mgt.			
FO	ANY UPPER LEVEL FO COURSE 3000 or higher*			
GR 2313	Maps Remote			
NREC	ANY UPPER LEVEL NREC COURSE 3000 or			
	higher*			
SBP	ANY UPPER LEVEL SBP COURSE 3000 or higher*			
ST 4213	Nonparametric Methods (ST 2113)			
WFA	ANY UPPER LEVEL WFA COURSE 3000 or higher*			
*CFR courses not otherw	*CFR courses not otherwise specified on our curricula may be applied through the			

substitution	process.			

Humanities (6 hours)

ARC 2313/3313	History of Architecture
EN 2203	Intro. to Literature (EN 1103, EN1113)
EN 2213/2223	English Literature (EN 1103, EN1113)
EN 2243/2253	American Literature I (EN 1103, EN1113)
EN 2273/2283	World Literature I (EN 1103, EN1113)
FL 1113/1123	Elem. Foreign Language ¹
HI 1063/1073	Early or Modern US History
HI 1163/1173	World History I or II
HI 1213/1223	Early or Modern Western World
HI 1313/1323	East Asian Civilizations I or II
PHI 1103	Intro. to Philosophy
PHI 1123	Intro. to Ethics
REL 1103	Intro. to Religion
REL 3213	World Religions I
REL 3223	World Religions II

¹ French, German, Greek, Japanese, Latin, Russian and Spanish

Business/Science (Up	per le	evel	courses	can	be	applied as PE)
Dubiness Selence	~P	pe		Courses	Cuit		applica as r c/

ACC 2013† Prin. Financial Accounting
ACC 2023† Prin. Managerial Acc. (ACC 2013)

BIS 3233† Mgt. Information Systems
BL 2413† Legal Environ. Business
BQA 3123† Bus. Stat. Meth. II (BQA 2113)

CH 1053	Survey of Chemistry II (CH 1043)
EC 2113+	Prin. Macroeconomics (SO)
EC 2123+	Prin. Microeconomics (EC 2113)
FIN 3123†	Fin. Mgt. (ACC 2013, EC 2123, BQA 2113)
GG 1113	Survey of Earth Science I
GG 4503	Geomorphology (consent of instructor)
GR 1114	Elements of Physical Geography
GR 3113	Conservation of Natural Resources
GR 4603	Climatology (GR 1114 or GR 1123)
INS 3103	Principles of Insurance (JR)
MGT 3114 1	Prin. of Mgt. Prod. (JR)(EC 2113, BQA 2113)
MGT 3323	Entrepreneurship (EC 2123)
MGT 3513	Intro. Human Resource Mgt.
PH 1013	Physical Sci. Survey (MA 0103 or ACT math subscore
	19)
PH 1063	Descriptive Astronomy
PHI 3013	Business Ethics
PSS 4313	Soil Fertility and Fertilizers (JR)(PSS 3303)
PSS 4323	Soil Classification (PSS 3303)
PSS 4333	Soil Conservation and Land Use (PSS 3303)
REF 3333	Principles of Real Estate (JR)
REF 3433	Real Property Evaluation (REF 3333)

Courses accepted for the GIS minor may be applied as Professional or Business/

Architectural Appreciation

Fine Arts (3 hours)

ARC 1013

Science Electives.

ART 1013	Art History I
ART 1023	Art History II
ART 1113	Art Appreciation
CO 1503	Intro. to Theater
LA 1803	Landscape Architecture Appr.
MU 1103/AAS 1103	African American Music
MU 1113	History and Appr. of Music
PE 1323	History and Appr. of Dance
PSS 2343	Floral Design
TKI 2413	Hist, and Appr. of the Artcrafts

[†]Courses can apply to the General Business Minor

Approved Substitutions List for Forest Management Concentration					
Required Courses	Approved Substitutions				
AEC 2713 Intr. Food & Resource Eco	EC 2113 Macroeconomics (SO) or EC 2123 Microeconomics (SO)(EC 2113)				
AELC 3203 Prof Writing in Ag, NR & EN 3313 Writ. for the Workplace (EN 1113) or MGT 3213 Organ. Comm. (JR)(EN 1113)					
Human Sci					
PH 1113 General Physics	CH 1053 Survey of Chem II, GR 1114 Physical Geography, or PH 2213 Physics I (MA 1713), CH 1223 (CH 1213)				
ST 2113 Intro to Statistics	MA 2113 Intro to Statistics, MA 3123 or ST 3123 Statistics Inf. (All require C in MA 1313 or ACT math subscore 24)				
CH 1043 Survey of Chemistry I	Any higher level chemistry course.				



DEPARTMENT OF FORESTRY

P.O. Box 9681 Mississippi State, MS 39762 P. 662.325.2949 cfr.msstate.edu

MEMO TO: Dr. Dana Franz, Chair, University Committee on Courses and Curricula

(UCCC)

FROM:

Dr. Stephen C. Grado, Chair, Department of Forestry Undergraduate

Committee (UC)

DATE: October 30, 2019

SUBJECT: Forest Business Concentration, Forestry Major

As per UCCC policy, I am providing documentation that the Department of Forestry's UC (and the entire faculty) has reviewed and approved the Forest Business Concentration in the Forestry Major as proposed by Dr. Robert Grala, Professor.

The UC members have indicated below their approval (or disapproval) relative to this new addition. All Committee members approved the documents that were developed and submitted. All faculty voted to support these changes.

Approve

Disapprove

Print Name

Signature

Stephen C. Grado

Krishna P. Poudel

Print Name

Signature



Department of Sustainable Bioproducts

October 28, 2019

Dr. Donald Grebner Professor and Department Head Forestry College of Forest Resources Mississippi State, MS 39762

Dear Dr. Grebner:

On behalf of the Department of Sustainable Bioproducts please find this letter in support of the Forestry Department's newly proposed "Forest Business Concentration" within the undergraduate forestry curriculum. On 10/16/2019 I received your email that contained information about the proposed new degree program. After you emailed me that information on I forwarded the information to our Sustainable Bioproducts Department faculty for review and comment. Then, at my request, you came over to visit with a couple Sustainable Bioproducts faculty members (Frank Owens and Beth Stokes) and I about the curriculum to be sure that it does not duplicate other activity at Sustainable Bioproducts. We very much appreciated your time and reassurance in this regard and are thus supportive. As a peer department head in the College of Forest Resources, I am pleased that you are making these tangible efforts to grow our collegiate enrollment and I look forward to the favorable outcome. With that I am,

Respectfully yours,

Rubin Shmulsky

Professor and Department Head



COLLEGE OF BUSINESS

Office of the Dean

P.O. Box 5288 114 McCool Hall Mississippi State, MS 39762

> P. 662.325.2580 F. 662.325.2410

www.business.msstate.edu

October 23, 2019

Donald Grebner Head Department of Forestry

Re: Forest Business Concentration

Ker Magers

Dear Dr. Grebner:

I have reviewed your proposal to add a Forest Business Concentration and shared it with Dean Oswald. We both support adding this concentration that will help forestry students earn one of the minors offered by the College of Business. We are in favor of the proposal to add a Forest Business Concentration and support its approval.

Regards,

Kevin Rogers Associate Dean

kevin.rogers@msstate.edu

662-325-1982



133 Peachtree Street Atlanta, GA 30303 601-320-1291 jvrushin@gapac.com

John V. Rushing Region Manager

October 24, 2019

Dr. Don Grebner George L Switzer Professor of Forestry and Head Department of Forestry Box 9681 Mississippi State, MS 39762

RE: Proposed Forest Business Area of Concentration

Dear Dr. Grebner,

Georgia-Pacific WFS LLC is an industry-leading wood and fiber procurement organization responsible for providing our manufacturing facilities with the raw materials to produce lumber, plywood, OSB, and paper products. As a procurement organization, our employees deal with various aspects of the supply chain and are required to analyze opportunities and make sound business decisions daily.

Our procurement model has evolved over the years from being on the ground, cruising and buying stumpage tracts every day, to more of a trading model - utilizing analytics and technology as part of our trading efforts. As a result, the foresters that we are seeking to hire today are much different than those we have hired in the past. Someone who has a strong knowledge of both forestry and business will generally be preferred to fill open roles in our organization.

Georgia-Pacific WFS LLC is proud to endorse the new Forest Business Concentration that the Mississippi State University College of Forest Resources is proposing as a means of producing graduates who have a strong background in both forestry and business.

Sincerely,

John V. Rushing Region Manager

Georgia-Pacific WFS LLC

John V. Rushing



Donald L. Grebner
George L. Switzer Professor of Forestry and Head
Department of Forestry
Re: creation of a Forest Business Concentration in the Department of Forestry

Dear Dr. Grebner:

We at Resource Management Service, LLC (https://resourcemgt.com/) fully support the creation of a Forest Business Concentration in the Department of Forestry at Mississippi State University.

Resource Management Service (RMS) is a Timberland Investment Management Organization (TIMO) and as such we manage timberland businesses across the world. As you can see from our website, we manage over 2.4 million acres of timberland valued at \$4.4 billion. This timberland is in the US, Brazil, New Zealand, and Australia.

The entire value chain of timberland is big business and whether a student goes into the private sector with a company like ours or they go to work for a non-government organization or anywhere else in the global timberland space; they must understand basic business principles like budgeting, the time value of money, and many more.

I am the Delta Region Manager for RMS. My team and I manage approximately 200,000 acres of timberland in Mississippi and 240,000 acres of timberland in Louisiana.

RMS invests strongly in forestry students. In Mississippi we hire 1 or 2 summer interns from Mississippi State a year. Companywide RMS hired 4 interns from MSU in 2019. Also, in Mississippi this year, we hired a recent graduate of Mississippi State as a full-time forester. And, for 2018/2019, in 8 southern forestry schools; RMS has 8 students on scholarship.

Not all southern forestry schools have access to the RMS scholarship. Our granting of the scholarship is based on our judgement of how well a school prepares forestry students for the work world. I am proud to say that we think Mississippi State does an excellent job of preparing their forestry students. Adding the Forestry Business Concentration strengthens this preparation.

From all of this, I hope you can see the importance we put on supporting your department's creation of a Forest Business Concentration. The business of forestry is a key area of development that a graduating forester needs to understand. And a forestry graduate with a concentration in forest business will be prepared to work in the world I work in and any other aspect of forest/timberland management.

Let me know if you need anything else from me.

Robby



November 8, 2019
Dr. Donald L. Grebner
George L. Switzer Professor of Forestry and Head
Department of Forestry
Box 9681
Mississippi State University, MS 39762

Dear Dr. Grebner,

I am writing in reference to the proposed addition of a Forest Business Concentration within the College of Forest Resources at Mississippi State University. The Westervelt Company is in full support of this enhancement to the College. We feel strongly that providing this option for students seeking a career in the industrial sector is beneficial not only for the students, but also companies providing employment and for the reputation of the College.

Forestry land and manufacturing organizations are looking for employment candidates that exhibit strong fundamentals in traditional forestry as well as business acumen. Regardless of which forestry school we recruit from, we always favor students that demonstrate exceptional communication and forest finance skills. We value our relationship with Mississippi State University and believe having the business minor option will enrich our interactions.

I would also add that I appreciate the Advisory Board process. It is apparent that the feedback from board members is genuinely sought and considered. Our company has had a presence on the board for several years and we are glad to have the opportunity to partner with the College in planning for the future.

Sincerely,

Jun King

Vice President & General Manager, Forest Resources Division

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

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

College: Veterinary Medicine

Department: Office of Research & Graduate Studies

Contact Person: Stephen B. Pruett/Tia Perkins

Mail Stop: 9825

E-mail: Pruett@cvm.msstate.edu or tia.perkins@msstate.edu

Nature of Change: degree name change Date Initiated: 11/21/19 Effective Date: Fall 2020

Current Degree Program Name: Veterinary Medical Science

Major: Ph.D. Veterinary Medical Science

Concentration:

Veterinary Medical Research (VMRC)
 Computational Biology (VCBC)
 Infectious Diseases (VIDC)
 Population Medicine Thesis (POPM)

New Degree Program Name: Veterinary and Biomedical Sciences

Major: Ph.D. Veterinary and Biomedical Science

Concentration:

1. Veterinary Medical Research (VMRC)

Veterinary Medical Research (VMRC)
 Computational Biology (VCBC)
 Infectious Diseases (VIDC)
 Population Medicine Thesis (POPM)

Summary of Proposed Changes: This program educates Ph.D. students to enable them to contribute to research and compete for positions in various areas of veterinary medical sciences. However, many of the research areas at the College of Veterinary Medicine can also apply to general biomedical research. For example, some focus areas include infectious diseases, bioinformatics, epidemiology, immunology, bacteriology, and virology. Essentially all of these research focus areas can be applied to solving animal disease problems or to solving general biomedical problems that could be applied to many species, and some of both types of research is done here.

Approved:	Date:
Department Head	11/21/19
Chair, College or School Curriculum Committee	11/21/19
Henner B Princil	11/21/19
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council(if applicable)	
Chair, Deans Council	



COLLEGE OF VETERINARY MEDICINE

Department of Basic Sciences

P.O. Box 6100 240 Wise Center Drive Mississippi State, MS 39762

> P. 662.325.1130 www.cvm.msstate.edu

November 21, 2019

University Committee on Courses and Curricula Mississippi State University

Dear UCCC:

The College of Veterinary Medicine Graduate Program Advisory Committee (GPAC) serves as the College's graduate curriculum committee. As such we reviewed the proposal for changing the degree program name for Veterinary Medical Science to Veterinary and Biomedical Sciences. This proposal includes the M.S. and Ph.D. program at CVM but does not affect the Ph.D. in Environmental Toxicology. After some discussion we put this proposal to the entire graduate faculty for a vote. The result was overwhelming in favor of adding this to our program. Therefore, the subsequent GPAC vote was unanimous in favor of this proposal.

Sincerely,

Larry A. Hanson. Ph.D.

GPAC Chair, VMS Graduate Coordinator

Jany A. Ho

Professor



COLLEGE OF VETERINARY MEDICINE

Office of Research and Graduate Studies

P.O. Box 6100 240 Wise Center Drive Mississippi State, MS 39762 Pruett@cvm.msstate.edu

November 18, 2019

University Committee on Courses and Curricula Mississippi State University

Dear UCCC:

I am writing to provide justification for the name change we are requesting for our M.S. and Ph.D. programs in "Veterinary Medical Sciences". Many of the research projects at CVM involve basic or applied projects in animal health, and "Veterinary Medical Sciences" is a good descriptor of such projects. However, a significant percentage of our graduate students have thesis or dissertation research projects that focus on human health and only utilize animals as models for human disease. In addition, there are some projects that utilize human cells or pathogenic organisms and do not involve animal research at all. Many of our peer and peerplus veterinary colleges in the U.S. have noticed the same issue and have addressed it by including the term "biomedical" in their M.S. and/or Ph.D. program names. For example, the Virginia-Maryland Regional College of Veterinary Medicine uses the name "Biomedical and Veterinary Sciences". Tufts University's Cummings School of Veterinary Medicine, University of Wisconsin School of Veterinary Medicine, North Carolina State University School of Veterinary Medicine, Texas A & M College of Veterinary Medicine, Oklahoma State University College of Veterinary Medicine, and Uinversity of Georgia College of Veterinary Medicine use the names "Biomedical Sciences" or "Comparative Biomedical Sciences" for graduate degrees. Including both "Veterinary Medical Sciences" and "Biomedical Sciences" in the name for our M.S. and Ph.D. programs will provide a valid descriptor of the types of research conducted at MSU-CVM. Therefore, we are proposing to change our M.S. and Ph.D. programs in "Veterinary Medical Sciences" to M.S. and Ph.D. programs in "Veterinary and Biomedical Sciences". This proposal was discussed at the Spring 2019 meeting of the Graduate Faculty and approved by vote. No changes in the graduate program description or requirements are requested, and the other graduate program at CVM, the Ph.D. in Environmental Toxicology is not included in this name change request.

Sincerely,

Stephen B. Pruett, Ph.D.

Staplen & Princel

Professor and Interim Associate Dean for Research and Graduate Studies

GRADUATE DEGREE MODIFICATION OUTLINE FORM

Use the chart below to make modifications to an existing Graduate Degree. All deleted courses and information should be shown in *italics* and all new courses and information in **bold**. Please include the course prefix, number, and title in both columns. Expand rows as needed.

CURRENT Degree Description	
Degree: Ph.D.	

Major: Veterinary Medical Science

Concentrations: Veterinary Medical Research (VMRC), Computational Biology (VCBC), Infectious Diseases

(VIDC), Population Medicine (POPM)

Old degree catalog description:

Admission Criteria

To be admitted to the Veterinary Medical Sciences Graduate Program the applicant must either hold a D.V.M. degree from a recognized college of veterinary medicine or have at least a bachelor's degree from a fully recognized four-year institution of higher learning. The scholastic record for all undergraduate, graduate, and professional school coursework will be reviewed and should exceed a minimum GPA of 3.00 for undergraduate work; GPA of 3.00 for graduate work; GPA of 2.75 for the four years of the veterinary curriculum or 2.75 for the last two years of the veterinary curriculum. Also required are three reference letters, a minimum TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 for international students from countries whose primarily language is not English, and if a Graduate Record Examination (GRE) score is available it will be considered.

Provisional Admission

In special circumstances a student who does not meet admission criteria may be admitted provisionally if approved by the Graduate Program Advisory Committee (GPAC). See Provisional Admission under Admission in this publication for provisional requirements.

Academic Performance

If a student does not show satisfactory progress toward meeting academic, research, and/or thesis requirements, his/her performance will be reviewed in a meeting with the student's

PROPOSED Degree Description

Degree: Ph.D.

Major: Veterinary and Biomedical Science

Concentrations: Veterinary Medical Research (VMRC), Computational Biology (VCBC), Infectious Diseases

(VIDC), Population Medicine (POPM)

New degree catalog description:

With the proposed degree name change, admission and performance criteria will remain unchanged.

graduate committee. This committee may recommend a change in the student's program or recommend that the student be dismissed from the graduate degree program in the College of Veterinary Medicine Veterinary Medical Science Program. Students must follow all guidelines outlined in the Graduate Catalog.

Old Concentration description:

Doctor of Philosophy in Veterinary Medical Science (VMS) – Veterinary Medical Research Concentration (VMRC) (for students with a master's degree)

Two statistics courses ^{1,2}	6
Three seminar courses (CVM 8011 or equivalent) ¹	3
Additional graduate-level courses (at least 12 hours of all coursework at 8000-level or higher) or additional CVM 9000 credits ¹	31
CVM 9000 Dissertation Research/Dissertation in Veterinary Medicine	
Total Hours	60

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

Doctor of Philosophy in Veterinary Medical Science (VMS) – Veterinary Medical Research Concentration (VMRC)(for students with a bachelor's but no master's degree)

Two statistics courses ^{1,2}	6
Three seminar courses (CVM 8011 or equivalent) ¹	3
Additional graduate-level courses (at least 12 hours of all coursework at 8000-level or higher)	15
CVM 9000 Dissertation Research/Dissertation in Veterinary Medicine	20
Additional graduate-level coursework and/or CVM 9000 credits ³	46
Total Hours	90

¹ Equivalency of seminars and coursework is determined

New Concentration description:

With the proposed degree name change, all concentration requirements and curricula will remain unchanged.

² Previous graduate level statistics courses can satisfy this requirement with approval of the student's graduate committee. Transfer of credit for any previously taken courses is subject to the MSU Bulletin of the Graduate School policy. Graduate level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

by the student's graduate committee.

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

³Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS.

Doctor of Philosophy in Veterinary Medical Science (VMS) – Computational Biology Concentration (VCBC) (for students with a master's degree)

BCH 8653 Genomes and Genomics or PSS	3
8653 Genomes and Genomics	
CSE 6613 Bio-computing	3
CSE 6623 Computational Biology	3
Three seminar courses (CVM 8011 or	3
equivalent) ¹	
Two graduate-level statistics courses 1,2	6
Additional graduate-level courses (at least 12	22
hours of all coursework at 8000-level) or	
additional CVM 9000 credits ¹	
CVM 9000	20
Total Hours	60

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

Doctor of Philosophy in Veterinary Medical Science (VMS) – Computational Biology Concentration (VCBC) (for students with a bachelor's but no master's degree)

(101 Students With a Sachelor B Sat no master B deg	5.00)
BCH 8653 Genomes and Genomics or PSS	3
8653 Genomes and Genomics	
CSE 6613 Bio-computing	3
CSE 6623 Computational Biology	3
Three seminar courses (CVM 8011 or	3
equivalent) ¹	
Two graduate-level statistics courses 1,2	6
Additional graduate-level courses (at least 12	6
hours of all coursework at 8000-level or	
higher)	
CVM 9000 Dissertation Research/Dissertation	20
in Veterinary Medicine	
Graduate-level coursework and/or additional	46
CVM 9000 credits ³	
Total Hours	90

¹ Equivalency of seminars and coursework is determined

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

by the student's graduate committee.

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

³Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS.

Doctor of Philosophy in Veterinary Medical Science (VMS) – Infectious Diseases Concentration (VIDC) (for students with a master's degree)

stadents with a master's degree)	
CVM 8303 Advanced Immunology	3
BCH 6013 Principles of Biochemistry or BCH	3
6713 Molecular Biology	
Two statistics courses ^{1,2}	6
Three seminar courses (CVM 8011 or equivalent) ¹	3
Additional graduate-level courses (at least 12 hours of all coursework at 8000-level or higher)	25
CVM 9000 Dissertation Research/Dissertation in Veterinary Medicine	20
Total Hours	60

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

Doctor of Philosophy in Veterinary Medical Science (VMS) – Infectious Diseases Concentration (VIDC) (for students with a bachelor's but no master's degree)

No recognition to the second
3
3
6
3
9
20
46
90

¹ Equivalency of seminars and coursework is determined

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

by the student's graduate committee.

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

³Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS.

Doctor of Philosophy in Veterinary Medical Science (VMS) –Population Medicine Concentration (POPM) (for students with a master's degree)

(
CVM 8333 Food Safety	3
CVM 8513 Applied Veterinary Epidemiology	3
CVM 8503 Epidemiology and Biostatistics	3
ST 8114 Statistical Methods ^{1,2}	4
Three seminar courses (CVM 8011, 8091 or	3
equivalent) ¹	
Additional graduate-level courses (at least 12	24
hours of all coursework must be at 8000-level	
or higher) or additional 9000-level credit	
CVM 9000 Dissertation Research/Dissertation	20
in Veterinary Medicine	
Total Hours	60

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

Doctor of Philosophy in Veterinary Medical Science (VMS)—Population Medicine Concentration (POPM) (for students with a bachelor's but no master's degree)

CVM 8333 Food Safety	3
CVM 8513 Applied Veterinary Epidemiology	3
CVM 8503 Epidemiology and Biostatistics	3
ST 8114 Statistical Methods ^{1,2}	4
Three seminar courses (CVM 8011, 8091, or	3
equivalent) ¹	
Additional graduate-level courses (at least 12	54
hours of all coursework must be at 8000-level	
or higher) or additional 9000-level credit ³	
CVM 9000 Dissertation Research/Dissertation	20
in Veterinary Medicine	1
Total Hours	90

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate

committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours. 3Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS. A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.			
*See above section – Concentration Description and Curriculum Outline/hours are now combined in the Graduate Catalog; therefore, outline is not repeated here.	Required Hours	PROPOSED CURRICULUM OUTLINE With the proposed degree name change, all concentration requirements and curricula will remain unchanged.	Required Hours

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

(Submit Appendix 9a in both PDF and Word Document Formats)

Institution: Mississippi State University

Date of Implementation:

Present 6-Digit CIP Code(s) & 4-Digit

New 6-Digit CIP Code:

Sequence Code(s):

Spring Semester 2020

512505

512505

CIP & Sequence codes: IHL Active Program Inventory

Present Program Title(s) as Appear(s) on Academic Program

Inventory, Diploma, and Transcript:

New Program Title as will Appear on Academic Program

Inventory, Diploma, and Transcript:

Veterinary Medical Sciences

Veterinary and Biomedical Sciences

Degree(s) to be Awarded:

Credit Hour Requirements:

M.S. and Ph.D.

M.S., 30 hr; Ph.D. 90 hr (or M.S. +60 hr)

List any institutions within the state offering similar programs:

None

Responsible Academic Unit(s):

Institutional Contact: Stephen B. Pruett

Phone: 662-325-6653

College of Veterinary Medicine

Email: Pruett@cvm.msstate.edu

Number of Students Enrolled in Last Six Years:

68

Year One 60

72 Year Three

Year Two

Year Four

Year Five 79 Year Six

> 454 Total

Number of Graduates Expected in Next Six Years:

Year One 18

Year Two 20

Year Three 16

Year Four 11

Year Five 11

Year Six 10

Total 86

Program Summary:

This program educates M.S. and Ph.D. students to enable them to contribute to research and compete for positions in various areas of veterinary medical sciences. However, many of the research areas at the College of Veterinary Medicine can also apply to general biomedical research. For example, some focus areas include infectious diseases, bioinformatics, epidemiology, immunology, bacteriology, and virology. Essentially all of these research focus areas can be applied to solving animal disease problems or to solving general biomedical problems that could be applied to many species, and some of both types of research is done here.

Chief	Academic Officer Signature	Date	······································
Instit	utional Executive Officer Signature	Date	
Insti	tution:		
1.	Describe how the proposed modification fits within the	mission of the institution.	
	The MSU College of Veterinary Medicine College. Part of the mission of MSU-CVN research.		
2.	Is this modification unnecessarily duplicative of other particles.	rograms within the System?	
	No.		
3.	Describe the anticipated institutional impact including a	ny research efforts associated wi	th this program.
	We anticipate that this change will make of biomedical research not necessarily direct addition, the new title accurately reflects to not only to veterinary medicine but also to	ly applicable to veterinant hat fact that much of the	ry medicine more effective. In research at CVM is applicable
4.	Are there any anticipated budget savings associated with	the proposed modification?	
	No budgetary savings are anticipated.		
5.	Are there any changes to the educational objectives of the There are no changes to the educational objectives.		
6.	Are there any changes to the curriculum of the degree pa	ogram associated with the propo	osed modification?

No curriculum changes will be associated with the proposed modification.

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

We anticipate that the change will allow our faculty to be more effective in recuiting highly qualified graduate students whose research interests are broader than veterinary medicine alone.

8. Describe the evaluation process which led to the request for the proposed modification.

The evaluation process consists of anecdotal observations over a long period of time in which prospective students have told our faculty members that they are concerned that their degree will indicate veterinary medical sciences, when it is possible that their career will not focus on veterinary medicine. In one particular case, two CVM administrators spent a considerable period of time trying to convince an MSU graduate with a B.S. degree with a 4.0 grade point average that the title of the degree would not be as influential later in his career as he thought, but he was very reluctant to enroll unless the name of the degree indicated that his training included topics relevant to biomedical sciences in general.

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

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

College: Veterinary Medicine

Department: Office of Research & Graduate Studies

Contact Person: Stephen B. Pruett/Tia Perkins

Mail Stop: 9825

E-mail: Pruett@cvm.msstate.edu or tia.perkins@msstate.edu

Nature of Change: degree name change Date Initiated: 11/21/19 Effective Date: Fall 2020

Current Degree Program Name: Veterinary Medical Science

Major: M.S. Veterinary Medical Science

Concentration:

- Population Medicine Non-Thesis (PMNT)
 Veterinary Medical Research (VMRC)
 Computational Biology (VCBC)
 Infectious Diseases (VIDC)

- 5. Toxicology (VTOX)
 6. Population Medicine Thesis (POPM)

New Degree Program Name: Veterinary and Biomedical Sciences

Major: M.S. Veterinary and Biomedical Science

Concentration:

- Population Medicine Non-Thesis (PMNT)
 Veterinary Medical Research (VMRC)
 Computational Biology (VCBC)
 Infectious Discoss (VIDC)

- 5. Toxicology (VTOX)6. Population Medicine Thesis (POPM)

Summary of Proposed Changes: This program educates M.S. students to enable them to contribute to research and compete for positions in various areas of veterinary medical sciences. However, many of the research areas at the College of Veterinary Medicine can also apply to general biomedical research. For example, some focus areas include infectious diseases, bioinformatics, epidemiology, immunology, bacteriology, and virology. Essentially all of these research focus areas can be applied to solving animal disease problems or to solving general biomedical problems that could be applied to many species, and some of both types of research is done here.

Approved:	Date:
Department Head	11/21/19
Chair, College or School Curriculum Committee	11/21/19
Henner B Privil	11/21/19
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council(if applicable)	
Chair, Deans Council	



COLLEGE OF VETERINARY MEDICINE

Department of Basic Sciences

P.O. Box 6100 240 Wise Center Drive Mississippi State, MS 39762

> P. 662.325.1130 www.cvm.msstate.edu

November 21, 2019

University Committee on Courses and Curricula Mississippi State University

Dear UCCC:

The College of Veterinary Medicine Graduate Program Advisory Committee (GPAC) serves as the College's graduate curriculum committee. As such we reviewed the proposal for changing the degree program name for Veterinary Medical Science to Veterinary and Biomedical Sciences. This proposal includes the M.S. and Ph.D. program at CVM but does not affect the Ph.D. in Environmental Toxicology. After some discussion we put this proposal to the entire graduate faculty for a vote. The result was overwhelming in favor of adding this to our program. Therefore, the subsequent GPAC vote was unanimous in favor of this proposal.

Sincerely,

Larry A. Hanson. Ph.D.

GPAC Chair, VMS Graduate Coordinator

Jany A. Ho

Professor



COLLEGE OF VETERINARY MEDICINE

Office of Research and Graduate Studies

P.O. Box 6100 240 Wise Center Drive Mississippi State, MS 39762 Pruett@cvm.msstate.edu

November 18, 2019

University Committee on Courses and Curricula Mississippi State University

Dear UCCC:

I am writing to provide justification for the name change we are requesting for our M.S. and Ph.D. programs in "Veterinary Medical Sciences". Many of the research projects at CVM involve basic or applied projects in animal health, and "Veterinary Medical Sciences" is a good descriptor of such projects. However, a significant percentage of our graduate students have thesis or dissertation research projects that focus on human health and only utilize animals as models for human disease. In addition, there are some projects that utilize human cells or pathogenic organisms and do not involve animal research at all. Many of our peer and peerplus veterinary colleges in the U.S. have noticed the same issue and have addressed it by including the term "biomedical" in their M.S. and/or Ph.D. program names. For example, the Virginia-Maryland Regional College of Veterinary Medicine uses the name "Biomedical and Veterinary Sciences". Tufts University's Cummings School of Veterinary Medicine, University of Wisconsin School of Veterinary Medicine, North Carolina State University School of Veterinary Medicine, Texas A & M College of Veterinary Medicine, Oklahoma State University College of Veterinary Medicine, and Uinversity of Georgia College of Veterinary Medicine use the names "Biomedical Sciences" or "Comparative Biomedical Sciences" for graduate degrees. Including both "Veterinary Medical Sciences" and "Biomedical Sciences" in the name for our M.S. and Ph.D. programs will provide a valid descriptor of the types of research conducted at MSU-CVM. Therefore, we are proposing to change our M.S. and Ph.D. programs in "Veterinary Medical Sciences" to M.S. and Ph.D. programs in "Veterinary and Biomedical Sciences". This proposal was discussed at the Spring 2019 meeting of the Graduate Faculty and approved by vote. No changes in the graduate program description or requirements are requested, and the other graduate program at CVM, the Ph.D. in Environmental Toxicology is not included in this name change request.

Sincerely,

Stephen B. Pruett, Ph.D.

Staplen & Princel

Professor and Interim Associate Dean for Research and Graduate Studies

GRADUATE DEGREE MODIFICATION OUTLINE FORM

Use the chart below to make modifications to an existing Graduate Degree. All deleted courses and information should be shown in *italics* and all new courses and information in **bold**. Please include the course prefix, number, and title in both columns. Expand rows as needed.

number, and title in both columns. Expand rows as ne	eded.
CURRENT Degree Description	PROPOSED Degree Description
Degree: M.S. Major: Veterinary Medical Science Concentrations: Population Medicine-Non-thesis (PMNT), Veterinary Medical Research (VMRC), Computational Biology (VCBC), Infectious Diseases (VIDC), Toxicology (VTOX), Population Medicine Thesis (POPM)	Degree: M.S. Major: Veterinary and Biomedical Science Concentrations: Population Medicine-Non-thesis (PMNT), Veterinary Medical Research (VMRC), Computational Biology (VCBC), Infectious Diseases (VIDC), Toxicology (VTOX), Population Medicine Thesis (POPM)
Old degree catalog description:	New degree catalog description:
Admission Criteria To be admitted to the Veterinary Medical Sciences Graduate Program the applicant must	With the proposed degree name change, admission and performance criteria will remain unchanged.

either hold a D.V.M. degree from a recognized college of veterinary medicine or have at least a bachelor's degree from a fully recognized four-year institution of higher learning. The scholastic record for all undergraduate, graduate, and professional school coursework will be reviewed and should exceed a minimum GPA of 3.00 for undergraduate work; GPA of 3.00 for graduate work; GPA of 2.75 for the four years of the veterinary curriculum or 2.75 for the last two years of the veterinary curriculum. Also required are three reference letters, a minimum TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 for international students from countries whose primarily language is not English, and if a Graduate Record Examination (GRE) score is available it will be considered.

Provisional Admission

In special circumstances a student who does not meet admission criteria may be admitted provisionally if approved by the Graduate Program Advisory Committee (GPAC). See Provisional Admission under Admission in this publication for provisional requirements.

Academic Performance If a student does not show satisfactory progress toward meeting academic, research, and/or thesis requirements, his/her performance will be reviewed in a meeting with the student's graduate committee. This committee may recommend a change in the student's program or recommend that the student be dismissed from the graduate degree program in the College of Veterinary Medicine Veterinary Medical Science Program. Students must follow all guidelines outlined in the Graduate Catalog.

Old Concentration description:

Master of Science in Veterinary Medical Science (VMS) - Population Medicine Non-Thesis Concentration (PMNT)

Statistics course ^{1,2}	3
CVM 8011 Seminar or CVM 8091 Current	1
Topics in Production Animal Medicine	
Additional graduate-level courses (at least 15	31
hours of all coursework credits must be 8000-	
level or higher) 1	
Total Hours	35

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

A final examination (oral and/or written) which covers both the major and supportive fields is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS)
- Veterinary Medical Research Concentration (VMRC)

	_
One statistics course ^{1,2}	3
One seminar course (CVM 8011 or	1
equivalent) ¹	
CVM 8000 Thesis Research/Thesis in	6
Veterinary Medicine	
Additional graduate-level courses (at least 12	20

New Concentration description:

With the proposed degree name change, all concentration requirements and curricula will remain unchanged.

² Previous graduate level statistics courses can satisfy this requirement with approval of the student's graduate committee. Transfer of credit for any previously taken courses is subject to the MSU Bulletin of the Graduate School policy.

hours of all coursework credits must be 8000-level or higher) ¹	
Total Hours	30

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) - Computational Biology Concentration (VCBC)

BCH 8653 Genomes and Genomics or PSS 8653 Genomes and Genomics	3
CSE 6613 Bio-computing	3
CSE 6623 Computational Biology	3
One statistics course ^{1,2}	3
One seminar course (CVM 8011 or equivalent) ¹	1
CVM 8000 Thesis Research/Thesis in Veterinary Medicine	6
Additional graduate-level courses (at least 12 hours of all coursework credits must be 8000-level or higher) ¹	11
Total Hours	30

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee.

graduate program.

Master of Science in Veterinary Medical Science (VMS)
- Infectious Diseases Concentration (VIDC)

CVM 8303 Advanced Immunology	3
BCH 6013 Principles of Biochemistry or BCH	3
6713 Molecular Biology	
One statistics course ^{1,2}	3
One seminar course (CVM 8011 or	1
equivalent) ¹	
Additional graduate-level courses (at least 12	14
hours of all coursework credits must be 8000-	
level or higher) 1	
CVM 8000 Thesis Research/Thesis in	6
Veterinary Medicine	
Total Hours	30

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) – Toxicology Concentration (TOXI)

CVM 8543 Mechanisms of Toxic Action or	3
CVM 8523 Organ Systems Toxicology I or	
CVM 8533 Organ Systems Toxicology II	
CVM 6513 Environmental Toxicology	3
One statistics course ^{1,2}	3
One seminar course (CVM 8011, 8091 or	1
equivalent) ¹	
Additional graduate-level courses (at least 12	14
hours of all coursework credits must be 8000-	
level or higher) ¹	
CVM 8000 Thesis Research/Thesis in	6
Veterinary Medicine	
Total Hours	30

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee.

- ¹ Equivalency of seminars and coursework is determined by the student's graduate committee.
- ² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS)

-Population Medicine Thesis Concentration (POPM)

CVM 8333 Food Safety	3
CVM 8513 Applied Veterinary Epidemiology	3
CVM 8503 Epidemiology and Biostatistics	3
ST 8114 Statistical Methods 1,2	4
One seminar course (CVM 8011, 8091 or equivalent) ¹	1
Additional graduate-level courses (at least 12 hours of all coursework credits must be 8000-level or higher) ¹	10
CVM 8000 Thesis Research/Thesis in Veterinary Medicine	6
Total Hours	30

¹ Equivalency of seminars and coursework is determined by the student's graduate committee.

² Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

CURRENT CURRICULUM OUTLINE

Required Hours

PROPOSED CURRICULUM OUTLINE

Required Hours

*See above section – Concentration Description and Curriculum Outline/hours are now combined in the Graduate Catalog; therefore, outline is not repeated here.

With the proposed degree name change, all concentration requirements and curricula will remain unchanged.

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

(Submit Appendix 9a in both PDF and Word Document Formats)

Institution: Mississ	ppi	State	University
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Date of Implementation:

Present 6-Digit CIP Code(s) & 4-Digit

New 6-Digit CIP Code:

Sequence Code(s):

Spring Semester 2020

512505

512505

CIP & Sequence codes: IHL Active Program Inventory

Present Program Title(s) as Appear(s) on Academic Program

Inventory, Diploma, and Transcript:

New Program Title as will Appear on Academic Program

Inventory, Diploma, and Transcript:

Veterinary Medical Sciences

Veterinary and Biomedical Sciences

Degree(s) to be Awarded:

Credit Hour Requirements:

M.S. and Ph.D.

M.S., 30 hr; Ph.D. 90 hr (or M.S. + 60 hr)

List any institutions within the state offering similar programs:

None

Responsible Academic Unit(s):

Institutional Contact: Stephen B. Pruett

Phone: 662-325-6653

College of Veterinary Medicine

Email: Pruett@cvm.msstate.edu

Number of Students Enrolled in Last Six Years:

of Students 1	ani oncu in .
Year One	60
Year Two	68
Year Three	72
Year Four	77
Year Five	79
Year Six	79
Total	454

Number of Graduates Expected in Next Six Years:

0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- Pool
Year One	18
Year Two	20
Year Three	16
Year Four	11
Year Five	11
Year Six	10
Total	86

Program Summary:

This program educates M.S. and Ph.D. students to enable them to contribute to research and compete for positions in various areas of veterinary medical sciences. However, many of the research areas at the College of Veterinary Medicine can also apply to general biomedical research. For example, some focus areas include infectious diseases, bioinformatics, epidemiology, immunology, bacteriology, and virology. Essentially all of these research focus areas can be applied to solving animal disease problems or to solving general biomedical problems that could be applied to many species, and some of both types of research is done here.

Chief Academic Officer Signature		Date	
Instit	tutional Executive Officer Signature	Date	
Inst	itution:		
1.	Describe how the proposed modification fits within	the mission of the institution.	
	The MSU College of Veterinary Medic College. Part of the mission of MSU-C research.	cine (CVM) is Mississippi's only accredited Veterinary CVM is training veterinary and graduate students in	
2.	Is this modification unnecessarily duplicative of othe No .	er programs within the System?	
3.	Describe the anticipated institutional impact including	ng any research efforts associated with this program.	
	biomedical research not necessarily dir addition, the new title accurately reflec	see our recruiting of graduate students who are interested in rectly applicable to veterinary medicine more effective. In its that fact that much of the research at CVM is applicable to to the broad field of biomedical sciences.	
4.	Are there any anticipated budget savings associated	with the proposed modification?	
	No budgetary savings are anticipated.		
5.		of the degree program associated with the proposed modification?	
	There are no changes to the educationa	al objectives associated with the proposed modification.	
6.	Are there any changes to the curriculum of the degree	ee program associated with the proposed modification?	
	No curriculum changes will be associa	ted with the proposed modification.	

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

We anticipate that the change will allow our faculty to be more effective in recuiting highly qualified graduate students whose research interests are broader than veterinary medicine alone.

8. Describe the evaluation process which led to the request for the proposed modification.

The evaluation process consists of anecdotal observations over a long period of time in which prospective students have told our faculty members that they are concerned that their degree will indicate veterinary medical sciences, when it is possible that their career will not focus on veterinary medicine. In one particular case, two CVM administrators spent a considerable period of time trying to convince an MSU graduate with a B.S. degree with a 4.0 grade point average that the title of the degree would not be as influential later in his career as he thought, but he was very reluctant to enroll unless the name of the degree indicated that his training included topics relevant to biomedical sciences in general.