A MEMORANDUM

DATE: April 19, 2023

TO: Academic Deans Council

FROM: Dr. Andy Perkins
UCCC Chair

RE: Change Notice 11

Listed below are curriculum change proposals which have been recommended by the University Committee Courses and Curricula. Under current procedure, members of the Academic Deans Council may question the approval of these proposals at any time prior to 5:00 p.m. on May 2, 2023 by contacting Dr. Andy Perkins (5-0004) or the office of the Vice President for Academic Affairs (5-3742). If no questions have been raised, the proposals will be considered approved automatically.

Provost & Executive
Vice President
APR 2 1 2023
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DOC# 45510

1. Course Proposals by college/school

ARCHITECTURE, ART AND DESIGN

Addition ART 4043 + Online/Distance	**Approved**	**ART 4043 History of Digital Art.** (3). Three hours lecture. A survey of digital art practices from the 1950s to the present. Students will learn theoretical, practical, and philosophical influences on digital art. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 500703 30 Char: History of Digital Art Effective: Fall 2023
Addition ART 4073	**Approved**	**ART 4073 Visualizing Resistance in the Global South.** (3). Three hours lecture. This course critically examines the art of resistance, protest, and revolution in contemporary visual culture produced in the Global South. Students will investigate responses to gun violence, political division, sexism, racism, nationalism, and religious discrimination via artistic intervention(s). Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 500703 30 Char: Visualizing Resistance Effective: Fall 2023
Addition ART 4353	**Approved**	**ART 4353 Illustration for Design.** (3). (Prerequisite: ART 2813 or consent of instructor). Six hours studio. This course will address the concepts, principles, and techniques of illustration for design, emphasizing the visual language to make a harmony between graphic elements and illustration. Method of Instruction: Q Method of Delivery: F Campus: 1 CIP: 500409 30 Char: Illustration for Design Effective: Fall 2023

Addition	ART 4373	**Approved**	**ART 4373 Motion Graphics.** (3). (Prerequisite: ART 2813 or consent of instructor). Six hours studio. Introduction to the concepts and techniques of motion design with the elements of shapes, forms, and type, emphasizing the visual storytelling by dynamic movements. Method of Instruction: Q Method of Delivery: F Campus: 1 CIP: 500706 30 Char: Motion Graphics Effective: Fall 2023
Modification	BCS 2226	**Passed Contingent**	**BCS 2226 Building Construction Studio 2.**
Modification	BCS 3116	**Passed Contingent**	**BCS 3116 Building Construction Studio 3.**
+Online/Distance	BCS 3413	**Tabled**	**BCS 3413 Graphic Construction Communication.**
+Online/Distance	BCS 3423	**Tabled**	**BCS 3423 Materials and Methods.**
+Online/Distance	BCS 3433	**Tabled**	**BCS 3433 Introduction to Estimating.**
+Online/Distance	BCS 3443	**Approved**	**BCS 3443 Approval to Offer Online Campus 5 for Construction Safety and Health.** Method of Delivery: F & O Campus: 2 & 5 Effective: Spring 2023
+Online/Distance	BCS 3453	**Approved**	**BCS 3453 Approval to Offer Online Campus 5 for Construction Technology.** Method of Delivery: F & O Campus: 2 & 5 Effective: Spring 2023
Modification	BCS 4116	**Passed Contingent**	**BCS 4116 Building Construction Studio 5.**
Modification	BCS 4126	**Passed Contingent**	**BCS 4126 Building Construction Studio 6.**
+Online/Distance	BCS 4413	**Approved**	**BCS 4413 Approval to Offer Online Campus 5 for Introduction to Construction Scheduling.** Method of Delivery: F & O Campus: 2 & 5 Effective: Spring 2023
+Online/Distance	BCS 4423	**Approved**	**BCS 4423 Approval to Offer Online Campus 5 for Building Utility Systems.** Method of Delivery: F & O Campus: 2 & 5 Effective: Spring 2023

+Online/Distance	BCS 4433	**Approved**	**BCS 4433 Approval to Offer Online Campus 5 for Building Structural Systems.** Method of Delivery: F & O Campus: 2 & 5 Effective: Spring 2023
+Online/Distance	BCS 4443	**Passed Contingent**	**BCS 4443 Project Management.**
+Online/Distance	BCS 4453	**Approved**	**BCS 4453 Approval to Offer Online Campus 5 for Constructional Legalities.** Method of Delivery: F & O Campus: 2 & 5 Effective: Spring 2023

ARTS AND SCIENCES

Addition +Gen Ed	AN 4353/6353	**Approved**	**AN 4353 Biology and Culture.** (3). Three hours lecture. Exploration and translation into public educational materials of relationships between human biology and culture and their impacts on diet; reproduction; aging; infectious and non-communicable disease; intersectional experiences of race, gender, racism, and prejudice; mental health; sleep; resilience; trauma and violence. Same as AAS 4353/6353. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 450201 30 Char: Biology and Culture Gen. Ed.: Social/Behavior Culture Effective: Spring 2023
Addition	AN 8183	**Approved**	**AN 8183 Culture, Place, and Space.** (3). Three hours lecture. This course investigates the relationship between culture, space, and place, introducing key ways social scientists approach these concerns. A central focus is the relationship between modes of social difference—particularly race, gender, and class—and cultural meaning in spatial power relations. (Same as GR 8183). Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 450201 30 Char: Culture, Place, and Space Effective: Spring 2023

Addition IDS 2111 +Online/Distance +Meridian	**Approved**	**IDS 2111 Introduction to Interdisciplinary Studies.** (1). One hour lecture. Introduction to the field of interdisciplinary studies covering the history of interdisciplinary studies in higher education, fundamentals of interdisciplinary research, and real-world applications of interdisciplinary approaches and degrees. Method of Instruction: C Method of Delivery: F & O Campus: 1, 2, & 5 CIP: 309999 30 Char: Intro to Interdisciplinary St Effective: Spring 2023
+Online/Distance PSY 4323/6323	**Tabled**	**PSY 4323/6323 History of Psychology.**

BUSINESS

Modification ACC 3002 +Online/Distance	**Approved**	**FROM: ACC 3002 Running the Numbers: Fundamentals of Financial and Managerial Accounting.** (2). (Prerequisite: Admission to MVP. Introduction to financial and managerial accounting concepts essential for interpreting accounting reports produced an analyzed with new entrepreneurial opportunities. **TO: ACC 3002 Running the Numbers: Fundamentals of Financial and Managerial Accounting.** (2). (Prerequisite: Acceptance into the MVP Program). The course presents financial and managerial accounting concepts necessary to understand the essential financial components of businesses. Method of Delivery: F & O Campus: 1 & 5 Effective: Fall 2023
Addition ACC 8153 +Online/Distance	**Approved**	**ACC 8153 Ethics in Accounting.** (3). (Prerequisites: ACC 3033 and Graduate Standing). Examination and discussion of moral and ethical issues within the accounting profession and the broader business environment. In addition to a broad study of ethical behavior and decision making, various professional codes of conduct within the accounting profession will be examined. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 520301 30 Char: Ethics in Accounting Effective: Spring 2023

Addition +Online/Distance	ACC 8163	**Approved**	**ACC 8163 Multijurisdictional Tax.** (3). (Prerequisites: ACC 4013 and graduate standing). This course introduces taxation of business entities and individuals earning income in multiple jurisdictions. The course focuses on state taxation including nexus, allocation, and apportionment issues for income tax and sales and use tax as well as international tax issues. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 520301 30 Char: Multijurisdictional Tax Effective: Spring 2023
Modification	BUS 4853	**Approved**	**FROM: BUS 4853 Business Policy.** **TO: BUS 4853 Strategic Management.** Effective: Fall 2023
Addition +Online/Distance	FIN 8333	**Approved**	**FIN 8333 Investment Management.** (3). The course covers the basic principles and practical applications of the investment process. It describes the investment environment, identifies the major participants in financial markets and explains how financial securities are traded. Additionally, methods to value financial assets, manage risk and evaluate performance will be discussed. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 520304 30 Char: Investment Management Effective: Spring 2023

EDUCATION

Modification (EDE 2521 to EDE 2523)	EDE 2523	**Approved**	**FROM: EDE 2521 Introduction to Elementary Education.** (1). One hour lecture. Introduction to the elementary education profession. Topics include what it means to be an elementary teacher, professional dispositions, terminology used in the profession, and general best practices for the elementary classroom. Field experience required. **TO: EDE 2523 Introduction to Elementary Education.** (3). (Prerequisites: Sophomore standing or higher in Elementary Education). Three hours lecture. Introduction to the elementary education profession. Topics include what it means to be an elementary teacher, professional dispositions, terminology used in the profession, and general best practices for the elementary classroom. Method of Instruction: C Method of Delivery: F & O Campus: 1, 2, & 5 CIP: 131202 30 Char: Intro to Elem Ed Effective: Fall 2023
+Online/Distance	EP 3613	**Approved**	**EP 3613 Approval to Offer Online Campus 5 for Exercise Electrocardiography.** Method of Delivery: F, O, & X Campus: 1, 2, & 5 Effective: Spring 2023
Addition +Online/Distance	EP 8213	**Approved**	**EP 8213 Muscle Physiology.** (3). (Prerequisite: graduate standing in the Department of Kinesiology or permission of instructor.) Three hours lecture. Overview of skeletal muscle anatomy, physiology, and adaptations to exercise training. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 310505 30 Char: Muscle Physiology Effective: Spring 2023

Modification	EPY 8473	**Approved**	**FROM: EPY 8473 Middle Level Assessment and Evaluation.** (3). A study of middle level assessment and instructional evaluation for monitoring individual student progress, general effectiveness of instruction, and communicating assessment results. **TO: EPY 8473 Elementary Assessment and Evaluation.** (3). Three hours lecture. A study of elementary (grades K-6) assessment and instructional evaluation for monitoring individual student progress, general effectiveness of instruction, and communicating assessment results. 30 Char: Elem Assessment & Eval Effective: Summer 2023
Modification +Online/Distance	HED 8010	**Approved**	**FROM: HED 8010 Practicum.** (3-6). (Prerequisite: Approval of instructor). Three or six hours supervised field experience and seminar in Student Affairs/Higher Education administration. (Repeatable for up to 6 total credits). **TO: HED 8010 Practicum.** (3-6). (Prerequisite: Approval of SAHE advisor). Three or six hours supervised field experience and seminar in Student Affairs/Higher Education administration. (Repeatable for up to 6 total credits). Method of Delivery: F & O Campus: 1 & 5 Repeatable: two times Effective: Summer 2023
Addition +Online/Distance	HED 8023	**Approved**	**HED 8023 Helping & Intervention Skills in Student Affairs & Higher Education.** (3). Three hours lecture. Overview and application of counseling-informed helping techniques for non-licensed helping professionals in student affairs, including student intervention & referral, motivational interviewing, conflict management, and de-escalation. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 130401 30 Char: Helping & Interv Skills SAHE Effective: Spring 2023

Addition	PE 1301	**Approved**	**PE 1301 Swimming.** (1). One hour laboratory. Emphasis is on the technique, knowledge, skill development, necessary to successfully swim for safety, enjoyment and exercise. Method of Instruction: L Method of Delivery: F Campus: 1 CIP: 131314 30 Char: Swimming Effective: Spring 2023
Addition	PE 1331	**Approved**	**PE 1331 Pickleball.** (1). One hour laboratory. Emphasis is on rules, knowledge, skill development, and team tactics necessary to successfully participate in an organized game of Pickleball. Method of Instruction: L Method of Delivery: F Campus: 1 CIP: 131314 30 Char: Pickleball Effective: Spring 2023
Modification	RDG 3113	**Approved**	**RDG 3113 Early Literacy Instruction I.** Method of Instruction: C & F Method of Delivery: F & O Effective: Spring 2023
Modification	RDG 3123	**Approved**	**RDG 3123 Early Literacy Instruction II.** Method of Instruction: Method of Delivery: Effective: Spring 2023
Addition +Online/Distance +Meridian	RDG 3223	**Approved**	**RDG 3223 Diagnosing and Assessing Reading Difficulties in Children.** (3). (Prerequisites: EDE 2523,3123, RDG 3113,3123; Co-Requisites: EDE 3523, RDG 3413). Three hours lecture. The selection, utilization, and interpretation of instruments used to diagnose and assess reading difficulties in children, K-6, and outline remedial procedures. Method of Instruction: C Method of Delivery: F & O Campus: 1, 2, & 5 CIP: 130301 30 Char: Assessing Reading Difficulties Effective: Spring 2023

Modification	RDG 4133	**Approved**	**FROM: RDG 4133 Integrating Literacy Instruction in the Content Areas.** (3). (Prerequisites: Admission to Teacher Education; RDG 3113, 3123, 3413, 3423; EDE: 3123, 3223, 3523; TECH 4763; EPY 4103; EDX 3123. Co-requisites: EDE 4113, 4123, 4143). Two hours lecture. Two hours laboratory. Field based. Selection, organization, teaching and assessment for integrating literacy across content areas – K-8; general effectiveness of and reflection about instructional practices. **TO: RDG 4133 Integrating Literacy Instruction in the Content Areas.** (3). (Pre-Requisites: EDE 3123, EDE 3223, EDE 3523, RDG 3113, RDG 3123, RDG 3413, RDG 3223; Co-Requisites: EDE 4113, EDE 4123, EDE 4143, & EDE 4153). Two hours lecture. Two hours lab. Field based. Selection, organization, teaching, and assessment for integrating literacy across content areas - K-6; general effectiveness. Effective: Fall 2023
Addition +Online/Distance +Meridian	RDG 6123	**Approved**	**RDG 6123 Elementary Literacy Instruction I.** (3). Three hours lecture. Foundational knowledge of the English linguistic system applied to explicit, systematic instruction for print concepts, phonological awareness, word recognition, and spelling from early childhood through upper elementary grades. Method of Instruction: C & F Method of Delivery: F & O Campus: 1, 2, & 5 CIP: 1313202 30 Char: Elem Literacy Instruction I Effective: Spring 2023
Addition +Online/Distance +Meridian	RDG 6133	**Approved**	**RDG 6133 Integrating Reading and Writing Across the Curriculum.** (3). Three hours lecture. Theory, research, and methods for teaching elementary students to use literacy as a tool for learning in the content areas. Method of Instruction: C Method of Delivery: F & O Campus: 1, 2, & 5 CIP: 131315 30 Char: Integ Read and Writing Curricu Effective: Spring 2023

Addition RDG 6143 +Online/Distance +Meridian	**Approved**	**RDG 6143 Elementary Literacy Instruction II.** (3). Three hours lecture. Concepts, materials, and teaching strategies for oral language development, academic vocabulary, reading fluency, reading comprehension, and writing. Method of Instruction: C & F Method of Delivery: F & O Campus: 1, 2, & 5 CIP: 131202 30 Char: Elem Literacy Instruction II Effective: Spring 2023
Addition RDG 6223 +Online/Distance +Meridian	**Approved**	**RDG 6223 Diagnosing and Assessing Reading Difficulties in Children.** (3). (Pre-Requisites: RDG 6113 and RDG 6123). Three hours lecture. Diagnosing and assessing reading difficulties in grades K-6 through identification, usage, and interpretation of various instruments and remedial procedures. Method of Instruction: C Method of Delivery: F & O Campus: 1, 2, & 5 CIP: 130301 30 Char: Assessing Reading Difficulties Effective: Spring 2023

ENGINEERING

Addition CSE 4343 +Online/Distance	**Passed Contingent**	**CSE 4343 SCADA Systems Security.**
Modification CSE 4363/6363	**Approved**	**FROM: CSE 4363/6363 Software Reverse Engineering.** (3). (Prerequisite: Grade of C or better in CSE 3183). Three hours lecture. Software specification recovery and malicious software analysis. Tools and techniques for analyzing compiled programs and communications in the absence of documentation. **TO: CSE 4363/6363 Software Reverse Engineering.** (3). (Prerequisite: Grade of C or better in CSE 3183). Three hours of lectures per week. Software specification recovery and malicious software analysis. Tools and techniques for analyzing compiled programs and communications without documentation. Effective: Fall 2023

Addition CSE 4433 +Online/Distance +Gulf Coast	**Passed Contingent**	**CSE 4433 Virtual and Extended Reality Development.** (3). Three hours lecture. Course covers applications, methods, research, and technologies used in development of interactive/virtual and extended reality environments. Students develop immersive environments and interactive experiences using industry standard technologies. Topics include virtual reality, mixed/augmented reality, human factors, motion capture, 3D content authoring, scientific applications, and current trends. Method of Instruction: C Method of Delivery: F, O, & X Campus: 1, 5, & 6 CIP: 110803 30 Char: VXR Dev Effective: Fall 2023
Addition CSE 4783/6783 +Online/Distance +Gulf Coast	**Passed Contingent**	**CSE 4783/6783 Cloud Computing & Security.**
+Online/Distance CSE 8743	**Approved**	**CSE 8743 Approval to Offer Online Campus 5 for Advanced Network Security.** Method of Delivery: F, I, & O Campus: 1, 5, & 6 Effective: Spring 2023

FORESTRY RESOURCES

Modification FO 4203/6203	**Approved**	**FROM: FO 4203/6203 Computer Applications for Forest Resources II.** **TO: FO 4203/6203 Fundamentals of Forest Business Data Analysis and Visualization.** 30 Char: Fund. For. Analys. & Vis. Effective: Fall 2023
Addition FO 4403 /6403	**Approved**	**FO 4403/6403 Intermediate Forest Business Data Analysis and Visualization.** (3). Three hours lecture. Concepts and applications related to forest business data analysis, mapping, and visualization in the context of forestry and natural resource management. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 030506 30 Char: Intm. For. Bus. Analys. & Vis. Effective: Spring 2023

Addition FO 4703 /6703		**Approved**	**FO 4703/6703 Forest Business Location Analytics and Intelligence.** (3). Three hours lecture. Analysis of spatially enabled data to facilitate forest business location and natural resource management decisions. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 030506 30 Char: For. Bus. Analyt. Intellig. Effective: Spring 2023
Addition	NREC 1102	**Approved**	**NREC 1102 Survey of Natural Resource Management.** (2) Two hours lecture. Orientation to the multidisciplinary aspects of natural resource conservation and management, orientation to the department, college, and university; understanding of student roles and responsibilities; and introduction to career opportunities. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 030101 30 Char: Survey Nat Res Mgmt Effective: Spring 2023

2. Program Proposals by college/school:

ACADEMIC AFFAIRS

Modification	**Degree:** BS **Major:** Data Science **Concentrations:** Business Information Systems; Computational Agriculture and Natural Resources; Computational Intelligence; Geoinformatics; Marketing and Supply Chain Analytics; Psychoinformatics; Social Data Analytics; Statistical Modeling; Visualization and Visual Analytics for Built Environment	**Approved**	Modification to the Marketing and Supply Chain Analytics concentration within the Bachelor of Data Science program. Effective: Fall 2023

AGRICULTURE AND LIFE SCIENCES

Modification	**Degree:** BS **Major:** Agribusiness **Concentrations:** Management; Policy and Law; Production	**Approved**	See proposal for list of revisions. Effective: Summer 2023
Modification	**Degree:** BLA **Major:** Landscape Architecture	**Approved**	See proposal for list of revisions. Effective: Fall 2023

Modification +Distance Education	**Degree:** BS **Major:** Human Development and Family Science **Concentration:** Youth Development	**Approved**	Proposal to offer Youth Development concentration through distance education and three hours moved from General Education to General Electives. Effective: Fall 2023

ARTS AND SCIENCES

Modification	**Degree:** BA **Major:** Anthropology	**Approved**	See proposal for list of revisions. Effective: Fall 2023
Addition +Distance Education	**Degree:** BS **Major:** Applied Sociology	**Approved**	Forwarded to Provost and President before submission to IHL.
Modification	**Degree:** BSIS **Major:** Interdisciplinary Studies	**Approved**	See proposal for list of revisions. Effective: Fall 2023
Modification	**Degree:** BSIS **Major:** Interdisciplinary Studies **Concentration:** Entertainment Technology	**Approved**	New Entertainment Technology concentration created. Effective: Fall 2023
Modification	**Degree:** Undergrad. Minor **Major:** Foreign Languages	**Approved**	See proposal for list of revisions. Effective: Fall 2023
Modification	**Degree:** BA **Major:** Criminology	**Approved**	See proposal for list of revisions. Effective: Fall 2023
Modification	**Degree:** BA **Major:** Liberal Arts	**Approved**	See proposal for list of revisions. Effective: Fall 2023
Modification	**Degree:** BA **Major:** History	**Approved**	See proposal for list of revisions. Effective: Fall 2023
Addition	**Degree:** Undergrad. Minor **Major:** Medical Humanities	**Approved**	New undergraduate minor created. Effective: Fall 2023
Modification	**Degree:** BSW **Major:** Social Work	**Tabled**	
Modification	**Degree:** BA **Major:** Sociology	**Approved**	See proposal for list of revisions. Effective: Fall 2023

EDUCATION

Modification	**Degree:** BS **Major:** Kinesiology **Concentrations:** Physical Education and Coaching; Neuromechanics; Strength and Conditioning; Clinical Exercise Physiology; Sport Administration; Physical Education and Coaching (non-licensure)	**Approved**	See proposal for list of revisions. Effective: Fall 2023

ENGINEERING

Modification	**Degree:** BS **Major:** Biomedical Engineering	**Approved**	See proposal for list of revisions. Effective: Fall 2023
Modification	**Degree:** BS **Major:** Mechanical Engineering	**Approved**	See proposal for list of revisions. Effective: Fall 2023
Modification	**Degree:** BS **Major:** Biosystems Engineering	**Approved**	See proposal for list of revisions. Effective: Fall 2023
Modification	**Degree:** PhD **Major:** Computer Science	**Approved**	Forwarded to Graduate Council for review.

All of the proposals were approved with the exception of the following:

Proposals**

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_____

_____

Peter Liam Ryan

Dr. Peter L. Ryan
Executive Vice Provost for Academic Affairs

May 2nd, 2023

Date

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: Academic Affairs **Department:** Data Science Program

Contact Person: Lynn Taylor **Mail Stop:** 9545 **E-mail:** clj19@msstate.edu

Nature of Change: Modify Concentration **Date Initiated:** 3/6/23 **Effective Date:** Fall 2023

Current Degree Program Name: Bachelor of Science

Major: Data Science **Concentrations**: (1) Business Information Systems (2) Computational Agriculture and Natural Resources (3) Computational Intelligence (4) Geoinformatics (5) Marketing and Supply Chain Analytics (6) Psychoinformatics (7) Social Data Analytics (8) Statistical Modeling (9) Visualization and Visual Analytics for Built Environment

New Degree Program Name: N/A
Major: N/A **Concentration:** N/A

Summary of Proposed Changes:
Modification to the Marketing and Supply Chain Analytics concentration within the Bachelor of Science in Data Science program.

Approved:	Date:
Mimmo Parisi Digitally signed by Mimmo Parisi Date: 2023.03.09 09:10:35 -06'00' **Department Head**	
Dana Pomykal Franz Digitally signed by Dana Pomykal Franz Date: 2023.03.09 11:54:04 -06'00' **Director of Academic Quality**	
Kimberly R. Hall Digitally signed by Kimberly R. Hall Date: 2023.03.09 12:20:15 -06'00' **Chair, College or School Curriculum Committee**	
Jamie Dyer Digitally signed by Jamie Dyer Date: 2023.03.09 12:52:41 -06'00' **Dean of College or School**	
Chair, University Committee on Courses and Curricula	4/19/23
N/A **Chair, Graduate Council (if applicable)**	
Peter Liam Ryan **Chair, Deans Council**	May 2nd 2023

DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Data Science Concentration: 1. Visualization and Visual Analytics for Built Environment 2. Computational Agriculture and Natural Resources 3. Business Information Systems 4. Marketing and Supply Chain Analytics 5. Social Data Analytics 6. Psychoinformatics 7. Statistical Modeling 8. Computational Intelligence 9. Geoinformatics	Degree: Bachelor of Science Major: Data Science Concentration: 1. Visualization and Visual Analytics for Built Environment 2. Computational Agriculture and Natural Resources 3. Business Information Systems 4. **Marketing and Supply Chain Analytics** 5. Social Data Analytics 6. Psychoinformatics 7. Statistical Modeling 8. Computational Intelligence 9. Geoinformatics
The Bachelor of Science in Data Science is an interdisciplinary program that draws upon disciplines from multiple colleges. It is a 123-hour inter-college program designed to include three general areas of coursework: general education, program core, and applications of the data science fundamentals in specific body of knowledge such as geoinformatics, computational intelligence and cybersecurity, marketing, management information systems, statistical modeling, social science analytics, architectural design and built environment, and smart agriculture. The overall curriculum is designed to provide students with an ideal educational experience necessary to become effective professional data science experts. Under the proposed undergraduate curriculum, general education coursework will help data science students develop intellectual curiosity, critical thinking, and ethical and aesthetic awareness. The coursework for the core program will provide students with the opportunity to build a strong foundation in the key fields of data science that include computer science, mathematics and statistics, management information systems, communication, management / leadership, design, and ethics. The course sequences for several distinct areas of academic concentration will provide students with the opportunity to become data science experts in a specific area.	The Bachelor of Science in Data Science is an interdisciplinary program that draws upon disciplines from multiple colleges. It is a 123-hour inter-college program designed to include three general areas of coursework: general education, program core, and applications of the data science fundamentals in specific body of knowledge such as geoinformatics, computational intelligence and cybersecurity, marketing, management information systems, statistical modeling, social science analytics, architectural design and built environment, and smart agriculture. The overall curriculum is designed to provide students with an ideal educational experience necessary to become effective professional data science experts. Under the proposed undergraduate curriculum, general education coursework will help data science students develop intellectual curiosity, critical thinking, and ethical and aesthetic awareness. The coursework for the core program will provide students with the opportunity to build a strong foundation in the key fields of data science that include computer science, mathematics and statistics, management information systems, communication, management / leadership, design, and ethics. The course sequences for several distinct areas of academic concentration will provide students with the opportunity to become data science experts in a specific area.

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English (General Education) EN 1103 English Comp I or EN 1104 EN 1113 English Comp II or EN 1173	6	English (General Education) EN 1103 English Comp I or EN 1104 EN 1113 English Comp II or EN 1173	6
Fine Arts (General Education): Any Gen Ed Course	3	Fine Arts (General Education): Any Gen Ed Course	3

Natural Sciences 2 Lab Based Sciences required by Gen Ed	6	Natural Sciences 2 Lab Based Sciences required by Gen Ed	6
Math (General Education): MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III	9	Math (General Education): MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III	9
Humanities (General Education): PHI 1113 Intro to Logic (required) Any Gen Ed Course	6	Humanities (General Education): PHI 1113 Intro to Logic (required) Any Gen Ed Course	6
Social/Behavioral Sciences (Gen Ed): DSCI 2013 Data Science Literacy (required) Any Gen Ed Course	6	Social/Behavioral Sciences (Gen Ed): DSCI 2013 Data Science Literacy (required) Any Gen Ed Course	6
Oral Communication CO 3213 Small Group Communication	3	Oral Communication CO 3213 Small Group Communication	3
Technical Writing CO 3223 Comm & Media Studies Research Methods	3	Technical Writing CO 3223 Comm & Media Studies Research Methods	3
Major Core: MA 3123 Statistical Inference MA 3113 Introduction to Linear Algebra MA/ST 4523 Introduction to Probability CSE 1284 Introduction to Computer Programming CSE 1384 Intermediate Computer Programming CSE 2813 Discrete Structures CSE 2383 Data Structures and Analysis of Algorithms CSE 4503 Database Management Systems CSE 4633 Artificial Intelligence CSE 3763 Legal and Ethical Issues in Computing BIS 3233 Management Information Systems DSCI 3013 Fundamentals of Data Acquisition DSCI 2012 Data Science Lab - Data Wrangling DSCI 3012 Data Science Lab – Description, Analysis, and Inference DSCI 3022 Data Science Lab – Data Visualization DSCI 3032 Data Science Lab - Artificial Intelligence DSCI 2022 Data Science Lab - Cloud, Quantum, and High-Performance Computing	51	Major Core: MA 3123 Statistical Inference MA 3113 Introduction to Linear Algebra MA/ST 4523 Introduction to Probability CSE 1284 Introduction to Computer Programming CSE 1384 Intermediate Computer Programming CSE 2813 Discrete Structures CSE 2383 Data Structures and Analysis of Algorithms CSE 4503 Database Management Systems CSE 4633 Artificial Intelligence CSE 3763 Legal and Ethical Issues in Computing BIS 3233 Management Information Systems DSCI 3013 Fundamentals of Data Acquisition DSCI 2012 Data Science Lab - Data Wrangling DSCI 3012 Data Science Lab – Description, Analysis, and Inference DSCI 3022 Data Science Lab – Data Visualization DSCI 3032 Data Science Lab - Artificial Intelligence DSCI 2022 Data Science Lab - Cloud, Quantum, and High-Performance Computing	51

DSCI 4013 Data Visualization		DSCI 4013 Data Visualization	
Concentration Courses: The coursework is reported below. Each area of concentration combines fundamental, field-specific content, concentration electives designed to apply data science to the field, and a six-hour practicum/capstone project. On their third year, students will have the opportunity to select a concentration area from the several available areas offered by the different colleges on campus. **Visualization and Visual Analytics for Built Environment** The Visualization and Visual Analytics for Built Environment concentration focuses on visualization techniques and smart analytics to leverage data across the full project lifecycle, from design development, construction, and operations, to increase efficiency and enhance productivity. The design and construction process for the built environment is rapidly transforming, driven by two primary forces. Architects and designers are increasingly adopting Building Information Modeling (BIM) techniques that allow more sustainable, accurate, and efficient design, planning, evaluation, and construction of the built environment. Rapid integration of IoT sensors and intelligent building systems that track every aspect of building performance complements the digital revolution in the design process. However, the data visualization and analytics efforts have significantly lagged behind data capture efforts by integrating IoT sensors in smart buildings. This gap presents an opportunity for a new class of professionals at the intersection of data science and design visualization. The industry needs new professionals who can bring together computational statistics and data analytic skills with visualization skills to inform the development of new workflows and strategies for the design and construction industries. Courses in this concentration train aim to fill this gap by preparing students in three complementary areas: • Provide a foundation in basic principles	30	Concentration Courses: The coursework is reported below. Each area of concentration combines fundamental, field-specific content, concentration electives designed to apply data science to the field, and a six-hour practicum/capstone project. On their third year, students will have the opportunity to select a concentration area from the several available areas offered by the different colleges on campus. **Visualization and Visual Analytics for Built Environment** The Visualization and Visual Analytics for Built Environment concentration focuses on visualization techniques and smart analytics to leverage data across the full project lifecycle, from design development, construction, and operations, to increase efficiency and enhance productivity. The design and construction process for the built environment is rapidly transforming, driven by two primary forces. Architects and designers are increasingly adopting Building Information Modeling (BIM) techniques that allow more sustainable, accurate, and efficient design, planning, evaluation, and construction of the built environment. Rapid integration of IoT sensors and intelligent building systems that track every aspect of building performance complements the digital revolution in the design process. However, the data visualization and analytics efforts have significantly lagged behind data capture efforts by integrating IoT sensors in smart buildings. This gap presents an opportunity for a new class of professionals at the intersection of data science and design visualization. The industry needs new professionals who can bring together computational statistics and data analytic skills with visualization skills to inform the development of new workflows and strategies for the design and construction industries. Courses in this concentration train aim to fill this gap by preparing students in three complementary areas: • Provide a foundation in basic principles	30

of design and digital representation drawing from traditional art and design disciplines • Develop advanced design visualization skills using state-of-the-art computer-aided design (CAD) and building information modeling (BIM) software tools used in the architecture, engineering, and construction industries • Develop an understanding of advanced building systems and building performance simulations and evaluations. The fundamental discipline courses in this concentration thus introduce visualization and analytics techniques that support the entire building project lifecycle from design development, construction, and operation to increase efficiency and enhance performance. The two data science capstone projects for this concentration provide opportunities to engage in real-world problem-based learning by bringing together foundational data science skills with visualization and analytic skills developed as part of the concentration. <u>Complete EIGHT 3-credit courses out of the following TEN:</u> -ART 1123 Design I (2D) -ART 2803 Intro to Comp. Art -ART 2813 Intermediate Computing for Design -ART 4813 Multimedia I -BCS 2313 Virtual Design & Construction -ID 3603 Digital Design for Interiors -ID 3363 3D CAD Modeling -ARC 2713 Passive Bldg. Systems -ARC 3723 Active Bldg. Systems -ARC 4633 Architecture and Virtual Spaces <u>Required:</u> -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science **Computational Agriculture and Natural Resources** The Computational Agriculture and Natural Resources (CANR) concentration trains students interested in data-driven		of design and digital representation drawing from traditional art and design disciplines • Develop advanced design visualization skills using state-of-the-art computer-aided design (CAD) and building information modeling (BIM) software tools used in the architecture, engineering, and construction industries • Develop an understanding of advanced building systems and building performance simulations and evaluations. The fundamental discipline courses in this concentration thus introduce visualization and analytics techniques that support the entire building project lifecycle from design development, construction, and operation to increase efficiency and enhance performance. The two data science capstone projects for this concentration provide opportunities to engage in real-world problem-based learning by bringing together foundational data science skills with visualization and analytic skills developed as part of the concentration. <u>Complete EIGHT 3-credit courses out of the following TEN:</u> -ART 1123 Design I (2D) -ART 2803 Intro to Comp. Art -ART 2813 Intermediate Computing for Design -ART 4813 Multimedia I -BCS 2313 Virtual Design & Construction -ID 3603 Digital Design for Interiors -ID 3363 3D CAD Modeling -ARC 2713 Passive Bldg. Systems -ARC 3723 Active Bldg. Systems -ARC 4633 Architecture and Virtual Spaces <u>Required:</u> -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science **Computational Agriculture and Natural Resources** The Computational Agriculture and Natural Resources (CANR) concentration trains students interested in data-driven	

careers in agriculture and natural resources through subject matter and applied data science coursework. Students who complete the CANR concentration will be equipped for careers as data scientists in agricultural production, agricultural technology, agricultural finance, natural resource management, wildlife and fisheries science, plant science, and other related fields. Choose 1 Course from the Following: -AEC 2713 Introduction to Food and Resource Economics -ABE 1863 Engineering Technology in Agriculture -BCH 4013 Principles of Biochemistry -PSS 1313 Plant Science -ADS 1113 Animal Science Choose 1 Course from the Following: -SBP 1103 Introduction to Sustainable Bioproducts -WFA 3133 Applied Ecology -FO 4123 Forest Ecology Choose 6 Credit Hours from the Following: CALS: -EC 2113 Principles of Macroeconomics -EC 3123 Intermediate Microeconomics -AEC 2223 Introduction to Sustainability Economics -AEC 3133 Introductory Agribusiness Management -AEC 3233 Introduction to Environmental Economics and Policy -AEC 4123 Financial and Commodity Futures Marketing -ABE 2173 Principles of Agricultural and Off-Road Machines -ABE 2543 Precision Agriculture I -ABE 4543 Precision Agriculture II -BCH 3102 Essential Biochemical Concepts and Analysis -BCH 4414 Protein Methods -ADS 3013 Anatomy and Physiology -ADS 3313 Introduction to Meat Science CFR: -SBP 2012 Intro to Bioproducts Industries -SBP 2123 Materials and Processing of Structure Bioproducts -WFA 4313 Fisheries Management -WFA 4613 Landscape Ecology		careers in agriculture and natural resources through subject matter and applied data science coursework. Students who complete the CANR concentration will be equipped for careers as data scientists in agricultural production, agricultural technology, agricultural finance, natural resource management, wildlife and fisheries science, plant science, and other related fields. Choose 1 Course from the Following: -AEC 2713 Introduction to Food and Resource Economics -ABE 1863 Engineering Technology in Agriculture -BCH 4013 Principles of Biochemistry -PSS 1313 Plant Science -ADS 1113 Animal Science Choose 1 Course from the Following: -SBP 1103 Introduction to Sustainable Bioproducts -WFA 3133 Applied Ecology -FO 4123 Forest Ecology Choose 6 Credit Hours from the Following: CALS: -EC 2113 Principles of Macroeconomics -EC 3123 Intermediate Microeconomics -AEC 2223 Introduction to Sustainability Economics -AEC 3133 Introductory Agribusiness Management -AEC 3233 Introduction to Environmental Economics and Policy -AEC 4123 Financial and Commodity Futures Marketing -ABE 2173 Principles of Agricultural and Off-Road Machines -ABE 2543 Precision Agriculture I -ABE 4543 Precision Agriculture II -BCH 3102 Essential Biochemical Concepts and Analysis -BCH 4414 Protein Methods -ADS 3013 Anatomy and Physiology -ADS 3313 Introduction to Meat Science CFR: -SBP 2012 Intro to Bioproducts Industries -SBP 2123 Materials and Processing of Structure Bioproducts -WFA 4313 Fisheries Management -WFA 4613 Landscape Ecology	

-FO 2213 Forest Measurements -FO 2443 Essentials of Biotechnology -FO 4113 Forest Resource Economics -FO 4123 Forest Ecology Choose 12 Credit Hours from the Following: CALS: -AEC 4133 Analysis of Food Markets and Prices -AEC 4223 Applied Quantitative Analysis in Agricultural Economics -AEC 4363 Economics of Precision Agriculture -AEC 4413 Public Problems of Agriculture -AEC 4733 Econometric Analysis in Agricultural Economics -ABE 2873 Land Surveying -ABE 3513 The Global Positional System and Geographic Information Systems in Agriculture and Engineering -ABE 4163 Machine Management Agro-Ecosystems -ABE 4263 Soil and Water Management -ABE 4463 Introduction to Imaging in Biological Systems -ABE 4483 Introduction to Remote Sensing Technologies -BCH 4803 Integrative Protein Evolution -PSS 4483 Introduction to Remote Sensing Technologies -ADS 4523 Internet Based Management in Livestock Industries CFR: -SBP 4013 Wood Anatomy -SBP 4253 Quantitative Methods in SBP -WFA 4123 Wildlife and Fisheries Biometrics -WFA 4243 Wildlife Techniques -WFA 4253 Application of Spatial Technologies to Wildlife Fisheries Management -FO 3015 Forest Description and Analysis -FO 4213 Forest Biometrics -FO 4313 Spatial Techniques in Natural Resources Management -FO 4453 Remote Sensing Applications -FO 4473 GIS for Natural Resource Management Required: -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for		-FO 2213 Forest Measurements -FO 2443 Essentials of Biotechnology -FO 4113 Forest Resource Economics -FO 4123 Forest Ecology Choose 12 Credit Hours from the Following: CALS: -AEC 4133 Analysis of Food Markets and Prices -AEC 4223 Applied Quantitative Analysis in Agricultural Economics -AEC 4363 Economics of Precision Agriculture -AEC 4413 Public Problems of Agriculture -AEC 4733 Econometric Analysis in Agricultural Economics -ABE 2873 Land Surveying -ABE 3513 The Global Positional System and Geographic Information Systems in Agriculture and Engineering -ABE 4163 Machine Management Agro-Ecosystems -ABE 4263 Soil and Water Management -ABE 4463 Introduction to Imaging in Biological Systems -ABE 4483 Introduction to Remote Sensing Technologies -BCH 4803 Integrative Protein Evolution -PSS 4483 Introduction to Remote Sensing Technologies -ADS 4523 Internet Based Management in Livestock Industries CFR: -SBP 4013 Wood Anatomy -SBP 4253 Quantitative Methods in SBP -WFA 4123 Wildlife and Fisheries Biometrics -WFA 4243 Wildlife Techniques -WFA 4253 Application of Spatial Technologies to Wildlife Fisheries Management -FO 3015 Forest Description and Analysis -FO 4213 Forest Biometrics -FO 4313 Spatial Techniques in Natural Resources Management -FO 4453 Remote Sensing Applications -FO 4473 GIS for Natural Resource Management Required: -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for	

Bachelor of Science in Data Science **Business Information Systems** Business Information Systems focuses on applying data science to solve business problems in the context of digital transformation. Modern enterprise management presents complex challenges of identifying actionable knowledge derived from the emerging flood of new data captured by an exploding number of online processes and connected sensors and devices. Companies are redesigning their organizational structures and processes to leverage this new capability – the concentration in BIS will prepare students to play a leading role in this emerging digital transformation and help companies compete in the increasingly connected environment. Students will combine their in-depth understanding of business processes with the ability to apply data science techniques to analyze business data, enabling them to aid strategic decision making. The concentration in BIS prepares students to solve business problems and identify business opportunities in the context of intelligent data analytics and digital transformation. Students will master these skills through learning exercises and real-world projects, engaging in projects to develop and implement a data-driven decision process or solution based on data mining, artificial intelligence, machine learning, and knowledge discovery of hidden relationships that can be exploited for new advances in business strategy. This experiential learning approach enables students to leverage their skillsets in a contextualized environment, complete with project management requirements, cost-benefit trade-offs, implementation obstacles (including financial, political, administrative, temporal, and legal barriers), team building and culture-building requirements, progress measurement methods, and complete life-cycle management of data science projects. <u>Students will choose three courses from the following:</u> -BL 2413 Legal Environment of Business -ACC 2013 Financial Accounting		Bachelor of Science in Data Science **Business Information Systems** Business Information Systems focuses on applying data science to solve business problems in the context of digital transformation. Modern enterprise management presents complex challenges of identifying actionable knowledge derived from the emerging flood of new data captured by an exploding number of online processes and connected sensors and devices. Companies are redesigning their organizational structures and processes to leverage this new capability – the concentration in BIS will prepare students to play a leading role in this emerging digital transformation and help companies compete in the increasingly connected environment. Students will combine their in-depth understanding of business processes with the ability to apply data science techniques to analyze business data, enabling them to aid strategic decision making. The concentration in BIS prepares students to solve business problems and identify business opportunities in the context of intelligent data analytics and digital transformation. Students will master these skills through learning exercises and real-world projects, engaging in projects to develop and implement a data-driven decision process or solution based on data mining, artificial intelligence, machine learning, and knowledge discovery of hidden relationships that can be exploited for new advances in business strategy. This experiential learning approach enables students to leverage their skillsets in a contextualized environment, complete with project management requirements, cost-benefit trade-offs, implementation obstacles (including financial, political, administrative, temporal, and legal barriers), team building and culture-building requirements, progress measurement methods, and complete life-cycle management of data science projects. <u>Students will choose three courses from the following:</u> -BL 2413 Legal Environment of Business -ACC 2013 Financial Accounting	

-ACC 2023 Managerial Accounting -EC 2113 Macro Economics -EC 2123 Macro Economics -FIN 3123 Financial Management -MGT 3113 Principles of Management -MKT 3013 Principles of Marketing -MKT 3323 International Logistics <u>Required:</u> -BQA 4423 Business Decision Analysis -BIS 4533 Decision Support Systems -BIS 4113 BIS Security Management -BIS 4753 Structured Systems Analysis and Design Choice of one 4000-level business course elective -BIS 4763 BIS Senior Seminar (analytics project) -BQA 4413 Business Forecasting & Predictive Analytics **Marketing and Supply Chain Analytics** Marketing and Supply Chain Analytics focuses on applying data science to solve problems relating to marketing and supply chain management using digital technologies. Marketing and supply chain functions are increasingly driven by data. Tasks such as analyzing online social media content, planning advertising campaigns across multiple online channels, designing cutting edge products, and delivering products through complex global supply chains, all require cutting edge data analytics skills. The concentration in Marketing and Supply Chain Analytics prepares students to solve data-driven business problems relating to marketing and supply chain management. Fundamental discipline courses expose students to important principles in business. Core concentration courses include upper-level courses focused on marketing and supply-chain analytics. There is a strong focus on practical project-driven learning in this concentration, with several classes offering the chance to work on projects for local companies and non-profit organizations. <u>Students will take the following *2 Courses*:</u> -MKT 3013 Principles of Marketing		-ACC 2023 Managerial Accounting -EC 2113 Macro Economics -EC 2123 Macro Economics -FIN 3123 Financial Management -MGT 3113 Principles of Management -MKT 3013 Principles of Marketing -MKT 3323 International Logistics <u>Required:</u> -BQA 4423 Business Decision Analysis -BIS 4533 Decision Support Systems -BIS 4113 BIS Security Management -BIS 4753 Structured Systems Analysis and Design Choice of one 4000-level business course elective -BIS 4763 BIS Senior Seminar (analytics project) -BQA 4413 Business Forecasting & Predictive Analytics **Marketing and Supply Chain Analytics** Marketing and Supply Chain Analytics focuses on applying data science to solve problems relating to marketing and supply chain management using digital technologies. Marketing and supply chain functions are increasingly driven by data. Tasks such as analyzing online social media content, planning advertising campaigns across multiple online channels, designing cutting edge products, and delivering products through complex global supply chains, all require cutting edge data analytics skills. The concentration in Marketing and Supply Chain Analytics prepares students to solve data-driven business problems relating to marketing and supply chain management. Fundamental discipline courses expose students to important principles in business. Core concentration courses include upper-level courses focused on marketing and supply-chain analytics. There is a strong focus on practical project-driven learning in this concentration, with several classes offering the chance to work on projects for local companies and non-profit organizations. <u>Students will take the following **3 courses:**</u> **-BQA 4423 Business Decision Analysis**	

-MKT 3323 International Logistics Students will choose *two courses* from the following: -BL 2413 Legal Environment of Business -ACC 2013 Financial Accounting -ACC 2023 Managerial Accounting -EC 2113 Macro Economics -EC 2123 Macro Economics -FIN 3123 Financial Management -MGT 3113 Principles of Management Students will choose *four courses* from the following list. -BQA 4423 Business Decision Analysis -BIS 4533 Decision Support Systems -MKT 4533 Marketing Research -MKT 4213 Internet Marketing -MKT 4033 International Transportation -MKT 4013 Procurement -MKT 4313 Physical Distribution Management Students will *take the following 2 courses:* -MKT 4333 International Supply Chain Management -BQA 4413 Business Forecasting & Predictive Analytics **Social Data Analytics** Social Data Analytics focuses on applying data science to understand sociological and political aspects of social media communication. Social Data Analytics prepares students to apply data science to understand sociological and political aspects of social media communication. Fundamental discipline courses lay discipline-specific foundations in social science. Core concentration courses prepare students for more advanced work with social media sources. From the following courses, choose 9		-MKT 3013 Principles of Marketing -MKT 3323 International Logistics Students will choose **one course** from the following: -BL 2413 Legal Environment of Business -ACC 2013 Financial Accounting -ACC 2023 Managerial Accounting -EC 2113 Macro Economics -EC 2123 Macro Economics -FIN 3123 Financial Management -MGT 3113 Principles of Management Students will choose **three courses** from the following list. -BIS 4533 Decision Support Systems -MKT 4533 Marketing Research -MKT 4213 Internet Marketing -MKT 4033 International Transportation -MKT 4013 Procurement -MKT 4313 Physical Distribution Management **Students will register for one non-business course for which they meet the prerequisites from any of the data science concentrations.** **Students will choose two courses from the following:** -MKT 4333 International Supply Chain Management -BQA 4413 Business Forecasting & Predictive Analytics **-BQA 4000 Directed Individual Study in Business Quantitative Analysis** **Social Data Analytics** Social Data Analytics focuses on applying data science to understand sociological and political aspects of social media communication. Social Data Analytics prepares students to apply data science to understand sociological and political aspects of social media communication. Fundamental discipline courses lay discipline-specific foundations in social science. Core concentration courses prepare students for more advanced work with social media sources. From the following courses, choose 9 hours, but no more than 6 hours in any one	

hours, but no more than 6 hours in any one field: -AN 1103 Intro to Anthropology -AN 1143 Intro to Cultural Anthropology -AN 1344 Intro to Bio Anthropology -CO 1403 Intro to Mass Media -GR 2313 Maps and Remote Sensing -PS 1313 Intro to International Relations -PS 1513 Comparative Government -PS 2703 Intro to Public Policy -CRM 1003 Crime and Justice in America -SO 1003 Intro to Sociology -SO 1103 Contemporary Social Problems Choose 15 hours from the following 3-hour courses: -AN 3343 Intro to Forensic Anthropology -AN 4173 Environment and Society -AN 4163 Anthropology of International Development -AN 4323 Plagues and People -CO 4213 Political Communication -CO 4283 Health Communication -CRM 4253 White Collar and Computer Crime -GR 3303 Survey of Geospatial Technologies -GR 4123 Urban Geography -PS 4243 State Election Policy and Politics -PS 4283 Public Opinion -PS 4293 Political Behavior -PS 4343 International Conflict and Security -PS 4373 International Terrorism -PS 4464 Political Analysis -PS 4523 Democracy and Inequality -PS 4613 Civil Wars and Intra-State Conflict -SO 3303 Rural Sociology -SO 4113 Social Organization and Change -SO 4123 Poverty, Analysis: People, Organization, and Program -SO 4173 Environment and Society Required: -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science **Psychoinformatics** Psychoinformatics is a subfield of phycology for the acquisition, organization, and synthesis of data		field: -AN 1103 Intro to Anthropology -AN 1143 Intro to Cultural Anthropology -AN 1344 Intro to Bio Anthropology -CO 1403 Intro to Mass Media -GR 2313 Maps and Remote Sensing -PS 1313 Intro to International Relations -PS 1513 Comparative Government -PS 2703 Intro to Public Policy -CRM 1003 Crime and Justice in America -SO 1003 Intro to Sociology -SO 1103 Contemporary Social Problems Choose 15 hours from the following 3-hour courses: -AN 3343 Intro to Forensic Anthropology -AN 4173 Environment and Society -AN 4163 Anthropology of International Development -AN 4323 Plagues and People -CO 4213 Political Communication -CO 4283 Health Communication -CRM 4253 White Collar and Computer Crime -GR 3303 Survey of Geospatial Technologies -GR 4123 Urban Geography -PS 4243 State Election Policy and Politics -PS 4283 Public Opinion -PS 4293 Political Behavior -PS 4343 International Conflict and Security -PS 4373 International Terrorism -PS 4464 Political Analysis -PS 4523 Democracy and Inequality -PS 4613 Civil Wars and Intra-State Conflict -SO 3303 Rural Sociology -SO 4113 Social Organization and Change -SO 4123 Poverty, Analysis: People, Organization, and Program -SO 4173 Environment and Society Required: -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science **Psychoinformatics** Psychoinformatics is a subfield of phycology for the acquisition, organization, and synthesis of data collected from psychology to reveal	

collected from psychology to reveal information about psychological traits such as personality and mood. Psychology has historically relied on experiments and questionnaires to collect data. These methods face several disadvantages such as small number of participants and bias and unreliable memory. Psychoinformatics solves these problems by storing Big Data related to psychology (such as communications on smartphones or social media websites) and then data mining for relevant psychological information. This concentration prepares students to apply data science to the field of psychology. Fundamental discipline courses lay discipline-specific foundations in psychology. Core concentration courses prepare students for more advanced work with cognitive science and psychology. Students in the Psychology concentration are recommended to take PSY 1013 as their second required social science general education course. Required: -PSY 1021 Careers in Psychology -PSY 3104 Introductory Psychological Stats -PSY 3314 Experimental Psychology Choose 9 hours from the following 3-hour courses: -PSY 3343 Psychology of Learning -PSY 3623 Social Psychology -PSY 3713 Cognitive Psychology -PSY 3803 Intro to Developmental Psych -PSY 4403 Biological Psychology Choose 6 hours from among any of the 4000 level Psychology courses. Required: -PSY 4000 Directed Individual Study in Psychology *Students must perform research in a laboratory and present their capstone project at the Undergraduate Research Symposium.* **Statistical Modeling** The Statistical Modeling concentration prepares students to apply advanced statistical methods to build analytical and		information about psychological traits such as personality and mood. Psychology has historically relied on experiments and questionnaires to collect data. These methods face several disadvantages such as small number of participants and bias and unreliable memory. Psychoinformatics solves these problems by storing Big Data related to psychology (such as communications on smartphones or social media websites) and then data mining for relevant psychological information. This concentration prepares students to apply data science to the field of psychology. Fundamental discipline courses lay discipline-specific foundations in psychology. Core concentration courses prepare students for more advanced work with cognitive science and psychology. Students in the Psychology concentration are recommended to take PSY 1013 as their second required social science general education course. Required: -PSY 1021 Careers in Psychology -PSY 3104 Introductory Psychological Stats -PSY 3314 Experimental Psychology Choose 9 hours from the following 3-hour courses: -PSY 3343 Psychology of Learning -PSY 3623 Social Psychology -PSY 3713 Cognitive Psychology -PSY 3803 Intro to Developmental Psych -PSY 4403 Biological Psychology Choose 6 hours from among any of the 4000 level Psychology courses. Required: -PSY 4000 Directed Individual Study in Psychology *Students must perform research in a laboratory and present their capstone project at the Undergraduate Research Symposium.* **Statistical Modeling** The Statistical Modeling concentration prepares students to apply advanced statistical methods to build analytical and statistical models. Core concentration	

statistical models. Core concentration courses prepare students for more advanced work in statistics. The concentration focuses on statistical models and methods that are needed to discover and validate patterns in Big Data. It includes upper-levels statistics and mathematics courses and a two-semester practicum to apply the theoretical machinery of quantitative methods to the solution of real-world problems involving Big-Data. Required: -MA 2923 Intro. to Modern Scientific Computing -MA 4183 Math. Found. of Machine Learning -MA 4133 Discrete Mathematics -MA 4143 Graph Theory -ST 4213 Nonparametric -ST 4313 Intro to Spatial Statistics -ST 4543 Intro to Mathematical Statistics I -ST 4243 Data Analysis I -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science **Computational Intelligence** Computational Intelligence focuses on understanding artificial intelligence and machine learning approaches to develop effective strategies to solve large-scale data science problems. This includes creation of new software tools, algorithms, and using existing programs and libraries. The concentration includes foundational courses in software development, algorithms, artificial intelligence, and machine learning. These ideas are then applied in various computer science-related contexts in upper-level courses and in a two-semester practicum. Required: -CSE 2213 Methods & Tools in Software Development -CSE 4163 Designing Parallel Algorithms -CSE 4683 Machine Learning and Soft Computing -CSE 4833 Introduction to Algorithms -CSE 4643 AI Robotics -CSE 4623 Computational Biology -CSE 4653 Cognitive Science		courses prepare students for more advanced work in statistics. The concentration focuses on statistical models and methods that are needed to discover and validate patterns in Big Data. It includes upper-levels statistics and mathematics courses and a two-semester practicum to apply the theoretical machinery of quantitative methods to the solution of real-world problems involving Big-Data. Required: -MA 2923 Intro. to Modern Scientific Computing -MA 4183 Math. Found. of Machine Learning -MA 4133 Discrete Mathematics -MA 4143 Graph Theory -ST 4213 Nonparametric -ST 4313 Intro to Spatial Statistics -ST 4543 Intro to Mathematical Statistics I -ST 4243 Data Analysis I -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science **Computational Intelligence** Computational Intelligence focuses on understanding artificial intelligence and machine learning approaches to develop effective strategies to solve large-scale data science problems. This includes creation of new software tools, algorithms, and using existing programs and libraries. The concentration includes foundational courses in software development, algorithms, artificial intelligence, and machine learning. These ideas are then applied in various computer science-related contexts in upper-level courses and in a two-semester practicum. Required: -CSE 2213 Methods & Tools in Software Development -CSE 4163 Designing Parallel Algorithms -CSE 4683 Machine Learning and Soft Computing -CSE 4833 Introduction to Algorithms -CSE 4643 AI Robotics -CSE 4623 Computational Biology -CSE 4653 Cognitive Science -CSE 4293 Artificial Intelligence for	

-CSE 4293 Artificial Intelligence for Cybersecurity -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science **Geoinformatics** The Geoinformatics concentration includes courses in three categories within the Department of Geosciences, comprising a total of 30 hours, with a focus on geospatial data acquisition and analysis. This includes nine hours of required coursework related to: (1) statistical analysis of geospatial data, (2) analysis and visualization of spatial data using Geographic Information Systems (GIS), and (3) acquisition of spatial information from remote sensing platforms. A further 15 hours will consist of courses in meteorology/climatology, geospatial science, and/or geology, with specific courses chosen based on student interest. These courses serve as the basis for attaining core knowledge on the nature and processes related to geoscience data, which is critical for applying data science skills in an appropriate and representative way with respect to geospatial information. The courses also act to showcase the specific applications of data science within the geoscience community, which will help students define future research strategies and interests as well as prepare them for careers as data scientists and geoinformatics professionals. The final six-hour capstone course will provide a means to apply general and discipline-specific data science skills by working directly with one or more geoscience research faculty. The course will involve designing and completing a research-based project that requires acquiring, analyzing, and interpreting geospatial information using sound scientific principles and critical thinking. By completing the Geoinformatics concentration within the Data Science BS, students will learn not only the skills and techniques required to be successful data scientists within the geospatial community, but also the knowledge necessary to make critical and relevant decisions within the scientific fields that rely on the collection and		Cybersecurity -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science **Geoinformatics** The Geoinformatics concentration includes courses in three categories within the Department of Geosciences, comprising a total of 30 hours, with a focus on geospatial data acquisition and analysis. This includes nine hours of required coursework related to: (1) statistical analysis of geospatial data, (2) analysis and visualization of spatial data using Geographic Information Systems (GIS), and (3) acquisition of spatial information from remote sensing platforms. A further 15 hours will consist of courses in meteorology/climatology, geospatial science, and/or geology, with specific courses chosen based on student interest. These courses serve as the basis for attaining core knowledge on the nature and processes related to geoscience data, which is critical for applying data science skills in an appropriate and representative way with respect to geospatial information. The courses also act to showcase the specific applications of data science within the geoscience community, which will help students define future research strategies and interests as well as prepare them for careers as data scientists and geoinformatics professionals. The final six-hour capstone course will provide a means to apply general and discipline-specific data science skills by working directly with one or more geoscience research faculty. The course will involve designing and completing a research-based project that requires acquiring, analyzing, and interpreting geospatial information using sound scientific principles and critical thinking. By completing the Geoinformatics concentration within the Data Science BS, students will learn not only the skills and techniques required to be successful data scientists within the geospatial community, but also the knowledge necessary to make critical and relevant decisions within the scientific fields that rely on the collection and interpretation of spatial information.	

interpretation of spatial information. Required: -GR 4303 Principles of GIS2 -GR 4633 Statistical Climatology Choose one of the following: -GR 4333 Remote Sensing of the Physical Environment2 -GR 4783 Satellite Meteorology -GR 4883 Radar Meteorology Elective courses (15 hours – choose 5 from the following) -GR 4733 Synoptic Meteorology -GR 4643 Physical Meteorology and Climatology I -GR 4693 Physical Meteorology and Climatology II -GR 4613 Applied Climatology -GR 4783 Satellite Meteorology1 -GR 4883 Radar Meteorology1 •-GR 4553 Computer Methods in Meteorology -GR 4313 Advanced GIS2 -GR 4323 Cartographic Sciences2 -GR 4333 Remote Sensing of the Physical Environment1,2 -GR 4343 Advanced Remote Sensing2 -GR 4363 GIS Programming2 -GR 4123 Urban Geography -GG 3613 Water Resources -GG 4233 Applied Geophysics -GG 4413 Structural Geology -GG 4503 Geomorphology -GG 4523 Coastal Environments -GG 4543 Community Engagement in Geosciences -GG 4613 Physical Hydrogeology 1 Can be used as remaining hours if not already used for the required concentration 2 Counts towards the Geospatial and Remote Sensing Minor Required: -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science		Required: -GR 4303 Principles of GIS2 -GR 4633 Statistical Climatology Choose one of the following: -GR 4333 Remote Sensing of the Physical Environment2 -GR 4783 Satellite Meteorology -GR 4883 Radar Meteorology Elective courses (15 hours – choose 5 from the following) -GR 4733 Synoptic Meteorology -GR 4643 Physical Meteorology and Climatology I -GR 4693 Physical Meteorology and Climatology II -GR 4613 Applied Climatology -GR 4783 Satellite Meteorology1 -GR 4883 Radar Meteorology1 •-GR 4553 Computer Methods in Meteorology -GR 4313 Advanced GIS2 -GR 4323 Cartographic Sciences2 -GR 4333 Remote Sensing of the Physical Environment1,2 -GR 4343 Advanced Remote Sensing2 -GR 4363 GIS Programming2 -GR 4123 Urban Geography -GG 3613 Water Resources -GG 4233 Applied Geophysics -GG 4413 Structural Geology -GG 4503 Geomorphology -GG 4523 Coastal Environments -GG 4543 Community Engagement in Geosciences -GG 4613 Physical Hydrogeology *1 Can be used as remaining hours if not already used for the required concentration* *2 Counts towards the Geospatial and Remote Sensing Minor* Required: -DSCI 4553: Capstone Project 1 for Bachelor of Science in Data Science -DSCI 4663: Capstone Project 2 for Bachelor of Science in Data Science	
Total Hours	123	Total Hours	123

JUSTIFICATION

These changes were required to ensure that the MSU College of Business maintains its full accreditation of all programs by AACSB International, which has oversight over all programs that include more than 30 credit hours of business coursework. With 10 classes, (30 credit hours), rather than 11 (33) as currently specified, the strict criteria for accreditation (including research output, detailed reporting, and other accreditation requirements) will not be required for the DSCI BIS concentration, giving us more flexibility without these specific potential barriers.

STUDENT LEARNING OUTCOMES AND ASSESSMENT

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply theory, techniques, and tools throughout the data science lifecycle and employ the resulting knowledge to satisfy stakeholders' needs.
7. Understand how to create a culture and leadership environment for innovation that puts the practice of data science at the core source of the economic and cultural vitality of an organization to ensure success in the process of digital transformation.
8. Understand, construct, evaluate, and choose data-enabled predictive models using state-of-the-art artificial intelligence, machine learning, statistical modeling, and model evaluation methods.

Assessment will be realized through the Institutional Effectiveness report process. External reviewers will also be identified to conduct periodic self-studies and, when possible, to seek accreditation through the ABET Computing Accrediting Commission or other accreditation bodies relevant to establishing the overall quality of the program.

SUPPORT – Letters of support from the Dean of the College of Business & the University Data Science Committee are attached.

PROPOSED 4-LETTER ABBRIAVIATION DSCI

EFFECTIVE DATE – Fall 2023

CIP NIMBER 30.7001

MISSISSIPPI STATE UNIVERSITY

DATA SCIENCE
133 Etheredge Hall
Mississippi State, MS 39762
P. 662.325.3168

March 9, 2023

Dear Dr. Perkins,

The University Data Science Committee is pleased to support the Degree Program Modification for the following concentration:

Marketing and Supply Chain Analytics

The committee members unanimously approved the modifications. Please see the attached signature sheet for the committee members' endorsement of the proposal.

Sincerely,

Kimberly R. Hall

Kimberly R. Hall
Chair, University Data Science Curriculum Committee

TO: Dr. Andy Perkins
Chair, University Committee on Courses and Curricula

FROM: University Data Science Committee

RE: Modification of concentration

DATE: March 6, 2023

This letter of support is offered by the University Data Science Committee in support of the modification of the Marketing and Supply Chain Analytics concentration within the Bachelor of Science in Data Science degree program.

Sincerely,
University Data Science Committee Members

Melanie Loehwing, Chair

Kimberly Hall, Curriculum Subcommittee Chair

Bimal Balakrishnan

Jonathan Barlow

Brad Brazzeal

Will Davis

Stephen France

Dan adke

Alta Knizley

Duane McLemore

Bindu Nanduri

Mimmo Parisi

Andy Perkins

Mohammad Sepehrifar

Bruno Kanieski da Silva

Da d Smith

Guiming Wang

Merrill Warkentin

Li Zhang

Xin Zhang

MISSISSIPPI STATE UNIVERSITY

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

March 1, 2023

TO: Dr. Andy Perkins
Chair, UCCC

FROM: Kevin Rogers
Associate Dean, College of Business

RE: Modifications to the Data Science major-MKT/SC concentration

The College of Business supports including the following business courses in the proposed modifications to the BS in Data Science, Marketing and Supply Chain Analytics concentration:

- Required major core courses: BIS 3233
- Marketing and Supply Chain Analytics concentration courses:
  - MKT 3013
  - MKT 3323
  - One course from: BL 2413, ACC 2013, ACC 2023, EC 2113, EC 2123, FIN 3123, MGT 3113
  - BQA 4423
  - Three courses from: BIS 4533 MKT 4533, MKT 4213, MKT 4033, MKT 4013, MKT 4313
  - Two of MKT 4333, BQA 4413, BQA 4000

This is the maximum allowable business courses for a 123 hour non-business major based on AASCB standards. No additional business courses should be added to this curriculum beyond those listed above.

Sincerely,

Kevin Rogers

Kevin Rogers
Associate Dean and Professor
College of Business

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: Agriculture & Life Sciences **Department:** Agricultural Economics

Contact Person: Daniel Petrolia **Mail Stop:** 9755 **E-mail:** *d.petrolia@msstate.edu*
Nature of Change: Modification **Date Initiated:** 1/30/23 **Effective Date:** Summer 2023
Current Degree Program Name: Bachelor of Science

Major: Agribusiness (AGB) **Concentration:** Management (MGT)
Policy & Law (POLL)
Production (PROD)

New Degree Program Name: Bachelor of Science

Major: Agribusiness (AGB) **Concentration:** Management (MGT)
Policy & Law (POLL)
Production (PROD)

Summary of Proposed Changes:

The main objectives for the proposed modification are to: 1) streamline the curriculum by requiring fewer substitutions without diluting the content of materials offered, and 2) to better distinguish concentrations from one another.

Specifically, the modification expanded the set of course options available for a student to take to cover a particular subject, moved some courses from the major core to a particular concentration, or vice-versa, to better suit the needs of the program, and added some courses to the curriculum that the department had begun offering but had not yet been formally added to the program.

The Department of Agricultural Economics has performed a complete review and assessment of the degree program. This review includes a comparison with a leading academic program in the discipline, an external review, review by the department's curriculum committee, and review and approval by the entire departmental faculty.

Approved:	Date:
Sean Fox Digitally signed by Sean Fox DN: cn=Sean Fox, o=Mississippi State University, ou=Ag Econ, email=sean.fox@msstate.edu, c=US Date: 2023.01.30 13:23:24 -06'00'	
Department Head	
Dana Pomykal Franz	2/6/2023
Director of Academic Quality	
	2/24/23
Chair, College or School Curriculum Committee	
	3/3/23
Dean of College or School	
	4/19/23
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council(if applicable)	
Peter L. Ryan	May 2nd 2023
Chair, Deans Council	

CURRICULUM OUTLINE TABLE

CURRENT Catalog Description	PROPOSED Catalog Description
Department of Agricultural Economics OVERVIEW Major Advisor: *Dr. Randy Little* Office: *325-2750* Agriculture and related businesses create more employment than *does* any other industry. The agribusiness industry accounts for nearly one-fifth of the U.S. gross national product and employs close to one-fourth of the U.S. labor force. Fully understanding how economic forces affect today's agriculture industry is critical for those seeking careers in agriculture-related businesses. A growing field within economics is environmental economics. A key challenge to the U.S. economy in the 21st century is finding a balance between the demand for natural resources and the need to preserve our environment. Individuals who can analyze these complex problems will be needed for the new "green jobs" that require sustainable solutions to resource and environmental issues. Two majors, *Environmental Economics and Agribusiness*, are offered to provide an understanding of economic forces and business management principles as well as technical knowledge of *technical* agriculture and environmental science. Students completing either major will be prepared to pursue additional training at the graduate level. Students who plan to attend a community college before transferring to Mississippi State are strongly encouraged to contact the Department's major advisor regarding their proposed community college course schedule and transfer requirements. *Students in both majors are required to earn a "C" or better in all required (non-elective) agricultural economics (AEC), economics (EC), English (EN), and mathematics (MA) courses.*	Department of Agricultural Economics OVERVIEW Major Advisor: **Dr. Daniel Petrolia** Office: **325-2888** Agriculture and related businesses create more employment than any other industry. The agribusiness industry accounts for nearly one-fifth of the U.S. gross national product and employs close to one-fourth of the U.S. labor force. Fully understanding how economic forces affect today's agriculture industry is critical for those seeking careers in agriculture-related businesses. A growing field within economics is environmental economics. A key challenge to the U.S. economy in the 21st century is finding a balance between the demand for natural resources and the need to preserve our environment. Individuals who can analyze these complex problems will be needed for the new "green jobs" that require sustainable solutions to resource and environmental issues. Two majors, **Agribusiness (AGB) and Environmental Economics and Sustainability (EES)**, are offered to provide an understanding of economic forces and business management principles as well as technical knowledge of agriculture and environmental science. Students completing either major will be prepared to pursue additional training at the graduate level. Students who plan to attend a community college before transferring to Mississippi State are strongly encouraged to contact the Department's major advisor regarding their proposed community college course schedule and transfer requirements. **In addition to the University and College minimum grade requirements, students must have at least a 2.00 GPA in all major core course work attempted.**

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science	Degree: Bachelor of Science
Major: Agribusiness	Major: Agribusiness
Concentration: Management, Policy and Law, Production	Concentration: Management **(MGT)**, Policy and Law **(POLL)**, Production **(PROD)**
The Agribusiness (AGB) major provides training in business including accounting, management, marketing, finance, and economics, along with training in agricultural sciences. The AGB major offers students flexibility in preparing for a wide variety of careers in agriculture and agribusiness. The major provides all students excellent foundational training in applied economics and business management while offering students the opportunity to specialize in specific areas. Potential career fields include, but are not limited to, agricultural and environmental law; agricultural policy analysis; economics consulting; agricultural lending; agricultural production management; commodities and equities marketing; and food chain supply management, including processing, sales, and distribution. Also, students desiring postgraduate training will have a solid academic foundation for pursuing graduate degrees.	The Agribusiness (AGB) major provides training in business including accounting, management, marketing, finance, and economics, along with training in agricultural sciences. The AGB major offers students flexibility in preparing for a wide variety of careers in agriculture and agribusiness. The major provides all students **with** excellent foundational training in applied economics and business management while offering students the opportunity to specialize in specific areas. Potential career fields include, but are not limited to, agricultural and environmental law; agricultural policy analysis; economics consulting; agricultural lending; agricultural production management; commodities and equities marketing; and food chain supply management, including processing, sales, and distribution. Also, students desiring postgraduate training will have a solid academic foundation for pursuing graduate degrees.

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
General Education Requirements	*37*	**General Education Requirements**	**30-34**
English: EN 1103 English Composition I OR EN 1163 Accelerated Composition I EN 1113 English Composition II OR EN 1173 Accelerated Composition II	6-7	English: EN 1103 English Composition I OR EN 1104 Expanded English Composition I EN 1113 English Composition II OR EN 1173 Accelerated Composition II	6-7
Math (General Education): *MA 1313 College Algebra* *MA 1613 Calculus for Business and Life Sciences I or higher level calculus* *BQA 2113 Business Stat Methods I*	*9*	**Math:** **MA 1613 Calculus for Business and Life Sciences I OR MA 1713 Calculus I**	**3**
Science *(7 hours)* *Select from University Core (CH 1043/CH 1051 recommended)*	*7*	**Natural Sciences:** **Any Gen Ed course**	**6-9**
Humanities (General Education): *PHI 1103 Introduction to Philosophy (OR Foreign Language course)* *Select from University Core (3 hours)*	6	**Humanities:** **Any Gen Ed course**	6

Fine Arts (General Education): *Select from University Core (3 hours)*	3	**Fine Arts:** **Any Gen Ed course**	3
Social/Behavioral Sciences (Gen Ed): AEC 2713 Intro to Food and Resource Econ OR EC 2123 Principles of Microeconomics EC 2113 Principles of Macroeconomics	6	**Social/Behavioral Sciences:** AEC 2713 Introduction to Food and Resource Economics OR EC 2123 Principles of Microeconomics EC 2113 Principles of Macroeconomics	6
Major Core Courses	46	Major Core Courses:	45-46
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
		AEC 1223 Computer Applications for Agriculturists and Life Scientists OR AELC 4203 Applications of Computer Tech to Agricultural Education, Leadership, and Communications OR BIS 1012 Introduction to Business Information Systems	**3**
AEC 2611 Seminar I	1	AEC 2611 Seminar I	1
AEC 3113 Introduction to Quantitative Economics	3	AEC 3113 Introduction to Quantitative Economics	3
		AEC 3133 Introductory Agribusiness Management	**3**
AEC 3213 International Trade in Agriculture	3		
AEC 3233 Introduction to Environmental Econ & Policy	3	AEC 3233 Introduction to Environmental Economics and Policy	3
AEC 3413 Intro to Food Marketing	*3*		
AEC 3513 Economics of Food and Fiber Production	*3*		
AEC 4133 Analysis of Food Markets and Prices	3	AEC 4133 Analysis of Food Markets and Prices	3
		AEC 4213 Ag Finance I	**3**
AEC 4223 Applied Quantitative Analysis in Agricultural Economics	3	AEC 4223 Applied Quantitative Analysis in Agricultural Economics	3
AEC 4413 Public Problems of Agriculture	3	AEC 4413 Public Problems of Agriculture	3
		AEC 4623 Global Marketing of Agricultural Product OR AEC 3213 International Trade in Agriculture	**3**

BL 2413 Legal Environment of Business	*3*		
		BQA 2113 Business Statistical Methods OR MA 2113 Introduction to Statistics OR MA 3123 Introduction to Statistical Inference OR ST 2113 Introduction to Statistics OR ST 3123 Introduction to Statistical Inference	**3**
		CO 1003 Fundamentals of Public Speaking	**3**
EC 3113 Intermediate Macroeconomics	3	EC 3113 Intermediate Macroeconomics	3
EC 3123 Intermediate Microeconomics	3	EC 3123 Intermediate Microeconomics	3
Oral Communication Requirement			
CO 1003 Fundamentals of Public Speaking	3		
Writing Requirement			
AIS 3203 Introduction to Technical Writing OR	3		
Concentration Courses		Concentration Courses	
Management Concentration	*41*	Management Concentration	**44-49**
ACC 3203 Financial Statement Analysis	*3*		
AEC 3133 Introductory Agribusiness Management	*3*		
		AEC 3413 Introduction to Food Marketing	**3**
AEC 4113 Agribusiness Firm Management	3	AEC 4113 Agribusiness Firm Management	3
AEC 4123 Financial and Commodity Futures Marketing	3	AEC 4123 Financial and Commodity Futures Marketing	3
		AEC 4343 Advanced Farm Management	**3**
		AELC 3203 Professional Writing in Agriculture, Natural Resources, and Human Sciences OR EN 3313 Writing for the Workplace	**3**
		BL 2413 The Legal Environment of Business	**3**

FIN 3123 Financial Management	3	FIN 3123 Financial Management	3
3 hours Communication or Computer Elective	*3*		
15 hours Restricted Electives**	*15*	**9 hours Restricted Electives***	**9**
8 hours Free Electives	*8*	**14-19 hours Free Electives**	**14-19**
*** Choose from: AEC 4343 Adv Farm Management; AEC 4530 Internship AEC-AGBM; AEC 4623 Exp-Imp TrafMgt in Ag; AEC 4711 Agri-Marketing Practicum; AEC 4713 Quantitative Economics; AEC 4723 Modeling for Ag Mgt; AEC 4733 Econometric Analysis in Ag Econ; ACC 3003 Acct Systems I; ACC 3013 Cost Accounting; ACC 3023 Intermediate Ace I; ACC 3033 Intermediate Ace II; ACC 3053 Acct Systems II; BL 3223 Law of Comm Trans; BL 4243 Entrepreneur Law; BL 4253 Real Estate Law; BL 4273 Int Bus Law; EC 3213 Labor Economics; EC 3423 Government and Business; EC 3513 Economic Systems; EC 4213 Personnel Economics; EC 4303 Theo of Ee Devel; EC 4313 Intro Regional Econ Devel; EC 4323 Intemat Ee Rel; EC 4433 Prob in State & Loe Fin; FIN 3113 Financial Systems; FIN 3723 Financial Markets; INS 3103 Prin of Insurance; INS 3203 Prop & Cas Ins; INS 3403 Financial Planning; MGT 3114 Prin of Mgt & Prod; MGT 3213 Org Communications I; MGT 3413 Production Mgt; MGT 3513 Intro Human Res Mgt; MGT 3813 Organizational Behavi; MGT 4113 Advanced Management; MGT 4613 Cross-Cultural Mgt; MKT 3013 Principles of Mkt; MKT 3213 Retailing; MKT 4113 Personal Selling; MKT 4123 Advertising; MKT 4413 Consumer Anal & Beh; MKT 4533 Marketing Research; MKT 4613 Services Marketing; REM 3333 Real Estate; REM 3253 Real Prop Evaluation; REM 4153 Real Estate Investment; REM 4253 Mortgage Financing; TR 3323 International Logistics; TR 4233 International Transportation; TR 4313 Physical Dist Mgt; TR 4333 International Sup Chain Mgt*		*** Restricted Electives – Choose from any 2000-4000 level AEC courses or 3000-4000 level College of Business courses. Other courses may be used with major advisor approval.**	
Policy & Law Concentration	*41*	Policy & Law Concentration	**44-49**
AEC 4233 Environmental Economics	3	AEC 4233 Environmental Economics	3

AEC 4243 Natural Resource Economics	3	AEC 4243 Natural Resource Economics	3
EC 4423 Intro Public Finance	*3*		
EN 4223 Principles of Legal Writing	3	EN 4223 Principles of Legal Writing	3
PHI 1113 Intro to Logic (University Core)	*3*		
PS 1113 American Government	3	PS 1113 American Government	3
		PS 1182 Introduction to Law I	2
		PS 1192 Introduction to Law II	2
PS 2703 Introduction to Public Policy	3	PS 2703 Introduction to Public Policy	3
*15 hours Restricted Electives***	*15*	**12 hours Restricted Electives***	**12**
5 hours Free Electives	*5*	**13-18 hours Free Electives**	**13-18**
*** Choose from: AEC 3213 Introductory Agribus Mgt; AEC 4123 Fin and Comm Futures Mkt; AEC 4343 Adv Farm Management; AEC 4530 Internship AEC-AGBM; AEC 4713 Quantitative Economics; AEC 4723 Modeling for Ag Mgt; AEC 4733 Econometric Analysis in Ag Econ; BL 3233 Law of Comm Trans; BL 4243 Entrepreneur Law; BL 4253 Real Estate Law; BL 4273 Int Bus Law; EC 3423 Government and Business; EC 4323 Internat Ee Rel; EC 4433 Prob in State & Loe Fin; FNH 1103 Intro Food Sci, Nutr & Health; FNH 4333 Food Law; FO 4353 Forestry Law; PS 3063 Constitution Powers; PS 3073 Civil Liberties; PS 4183 Judicial Process; PS 4283 Public Opinion; PS 4703 Prin Pub Adm*		*** Restricted Electives – Choose from any 2000-4000 level AEC courses, 2000-4000 level BL courses, 3000-4000 level EC courses, or 3000-4000 PS courses. Other courses may be used with major advisor approval.**	
Production Concentration	*41*	Production Concentration	**44-49**
ADS 1114 Animal Science	*4*	**ADS 1113 Animal Science OR PSS 1313 Plant Science OR PO 3313 Commercial Poultry Production**	**3**
AEC 3133 Introductory Agribusiness Management	*3*		
		AEC 3513 Economics of Food and Fiber Production	**3**

AEC 4123 Financial and Commodity Futures Marketing	3	AEC 4123 Financial and Commodity Futures Marketing	3
AEC 4343 Advanced Farm Management	3	AEC 4343 Advanced Farm Management	3
		AEC 4363 Economics of Precision Agriculture	**3**
		AELC 3203 Professional Writing in Agriculture, Natural Resources, and Human Sciences OR EN 3313 Writing for the Workplace	**3**
		BL 2413 Legal Environment of Business	**3**
FIN 3123 Financial Management	*3*		
PSS 1313 Plant Science	*3*		
*15 hours Restricted Electives***	*15*	**12 hours Restricted Electives***	**12**
7 hours Free Electives	*7*	**11-16 hours Free Electives**	**11-16**
*** Choose from: ABE 1863 Eng Tech In Ag; ADS/FNH 3142 Meats Judging I; ADS 3213 Perform Analy-Meat An; ADS 3312 Livestock Mgt Prac; ADS 4212 Livestock Eval; AEC 4232 Adv Livestk Eval; ADS/FNH 4314 Meat Processing; AEC 4233 Env Economics; AEC 4243 Natural Resource Econ; AEC 4530 Internship AEC-AGBM; AEC 4713 Quantitative Economics; AEC 4723 Modeling for Ag Mgt; AEC 4733 Econometric Analysis in Ag Econ; AIS 3333 Present Ag and Life Sci; AIS 3803 Lead Dev Ag/Life Sci; EPP 3113 Intr o Plant Pathology; EPP 4154 General Entomology; LA 1803 Land Arch Appre; LA 2433 Landscape Sys & Plants; PO 3103 Genetics I; PO 3313 Com Poultry Prod; PSS 3303 Soils I; PSS 3301 Soils Lab; PSS 413 Forage Pasture; PSS 4123 Grain Crops; PSS 4133 Fiber & Oilseed Crops; PSS 4313 Soil Fertility; PSS 4411 Remote Sensing Seminar*		*** Restricted Electives – Choose from any 2000-4000 level AEC courses or 3000-4000 level College of Ag and Life Sciences courses. Other courses may be used with major advisor approval.**	
Total Hours	124	Total Hours	124

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

The main objectives for the proposed modification are to: 1) streamline the curriculum by requiring fewer substitutions without diluting the content of materials offered, and 2) to better distinguish concentrations from one another.

Specifically, the modification expanded the set of course options available for a student to take to cover a particular subject, moved some courses from the major core to a particular concentration, or vice-versa, to better suit the needs of the program, and added some courses to the curriculum that the department had begun offering but had not yet been formally added to the program.

The Department of Agricultural Economics has performed a complete review and assessment of the degree program. This review includes a comparison with a leading academic program in the discipline, an external review, review by the department's curriculum committee, and review and approval by the entire departmental faculty.

Comparison with leading academic program in the discipline

We compared our modified degree program with that of the Agribusiness program at the University of Illinois'. This program is one of the leading programs in our discipline. Tables showing the detailed comparisons follow.

Our revised curriculum compares well, and in some cases is more rigorous, than the leading U.S. academic program to which we compared it. For our agribusiness – management concentration, we found that while both programs line up well on core courses, our program requires that our students also be exposed to environmental economics, agricultural finance, agricultural policy, business law, intermediate macroeconomics, and financial management. While it is possible that Illinois students would be exposed to these topics via elective courses -- a portion of their program provides more flexibility in what senior-level major courses may be taken -- they are not required. Their program allows four more free-elective hours than ours, but it also has more general education requirements, including foreign language and cultural studies.

For our agribusiness – policy and law concentration, our program provides a more well-rounded introductory set of agribusiness courses and more upper-level analytical coursework (analysis of food markets and prices, ag finance, and environmental economics), plus an additional accounting course, intermediate macroeconomics, and legal writing. Our program includes more general introductory law courses and American government, whereas theirs includes upper-level topic-specific law courses. Their program requires public sector economics, whereas our upper-level environmental economics course covers similar material, so we include public sector economics (called public finance at MSU) as part of the set of restricted electives.

For our agribusiness – production concentration, the programs are similar; they differ on a handful of courses. Specifically, in our program, the non-matching courses are focused on policy, precision agriculture, and environmental economics, whereas for Illinois, the focus is on marketing, financial decision-making, and spreadsheet models. Our program also requires an additional accounting course, animal or plant science, a professional writing course, business law, and intermediate macroeconomics.

MSU - AGB Management		Illinois - Agribusiness Markets & Management	
AEC 1223 Comp App for Ag & Life Sci	3	ACE 161 Microcomputer Applications	3
AEC 2611 Seminar I	1	ACE 341 Issues&Careers in Applied Econ	1
AEC 2713 Intro to Food and Resource Econ	3	ACE 100 Intro to Applied Microeconomics	4
AEC 3113 Introduction to Quantitative Economics	3	MATH 124 Finite Mathematics or 231 Calculus II	3
AEC 3133 Introductory Agribusiness Management	3	ACE 231 Food and Agribusiness Mgt	3
AEC 3413 Introduction to Food Marketing	3	ACE 222 Agricultural Marketing	3
AEC 4123 Financial and Commodity Futures Marketing	3	ACE 428 Commodity Futures and Options	3
AEC 4133 Analysis of Food Markets & Prices	3	ACE 427 Commodity Price Analysis	3
AEC 4223 Applied Quantitative Analysis in Agricultural Economics	3	ACE 264 Applied Statistical Methods & Data Analytics 2	3
AEC 4343 Adv Farm Management	3	ACE 432 Advanced Farm Management	3
AEC 4623 Global Marketing of Ag Prod	3	At least 3 hours from study abroad or one international course	3
AEC 3233 Introduction to Environmental Econ & Policy	3		
AEC 4113 Agribusiness Firm Mgt	3		
AEC 4213 Ag Finance	3		
AEC 4413 Public Problems of Agriculture	3		
ACC 2013 Principles of Financial Accounting	3	ACCY 201 Accounting and Accountancy I	3
ACC 2023 Principles of Managerial Accounting	3	ACCY 202 Accounting and Accountancy II	3
BQA 2113 Business Statistical Methods I	3	ACE 262 Applied Statistical Methods and Data Analytics I	3
CO 1003 Fund of Public Speaking	3	CMN 101 Public Speaking	3
EC 2113 Principles of Macroeconomics	3	ECON 103 Macroeconomic Principles	3
EC 3123 Intermediate Microeconomics	3	ACE 300 Intermediate Applied Microeconomics	3
AELC 3203 Professional Writing	3		
BL 2413 Legal Environment of Business	3		
EC 3113 Intermediate Macroeconomics	3		
FIN 3123 Financial Management	3		
Restricted Electives	9	Additional ACE or ACES hours	9
Free Electives	18	Free Electives	22
		ACES 101 Contemporary Issues in ACES	2
EN 1103 English Composition I OR EN 1104 Expanded English Composition I	3	RHET 105 Writing and Research	4
EN 1113 English Composition II OR EN 1173 Accelerated Composition II	3	Adv Comp	4
MA 1613 Calculus for Business and Life Sciences I OR MA 1713 Calculus I	3	MATH 220 Calculus, 221 Calculus I, OR 234 Calculus for Business I	4
Natural Sciences	6	Natural Sciences and Technology	6
Humanities	6	Humanities and the Arts	6
Fine Arts	3		
		Foreign Language	4
		Cultural Studies	9
		Social and Behavioral Sciences	6
Total	**124**	**Total**	**126**

MSU - AGB Policy & Law		Illinois - Public Policy & Law	
AEC 1223 Comp App for Ag & Life Sci	3	ACE 161 Microcomputer Applications	3
AEC 2611 Seminar I	1	ACE 341 Issues&Careers in Applied Econ	1
AEC 2713 Intro to Food and Resource Econ	3	ACE 100 Intro to Applied Microeconomics	4
AEC 3113 Introduction to Quantitative Economics	3	MATH 124 Finite Mathematics or 231 Calculus II	3
AEC 3233 Introduction to Environmental Econ & Policy	3	ACE 210 Environmental Economics	3
AEC 4223 Applied Quantitative Analysis in Agricultural Economics	3	ACE 264 Applied Statistical Methods & Data Analytics 2	3
AEC 4233 Environmental Economics	*3*	*ECON 411 Public Sector Economics*	*3*
AEC 4243 Natural Resource Econ	3	ACE 310 Natural Resource Economics	3
AEC 4413 Public Problems of Agriculture	3	ACE 456 Agricultural and Food Policies	3
AEC 4623 Global Marketing of Ag Prod	3	At least 3 hours from study abroad or one international course	3
AEC 3133 Introductory Agribusiness Management	3		
AEC 4133 Analysis of Food Markets & Prices	3		
AEC 4213 Ag Finance	3		
ACC 2013 Principles of Financial Accounting	3	ACCY 201 Accounting and Accountancy I	3
BQA 2113 Business Statistical Methods I	3	ACE 262 Applied Statistical Methods and Data Analytics I	3
CO 1003 Fund of Public Speaking	3	CMN 101 Public Speaking	3
EC 2113 Principles of Macroeconomics	3	ECON 103 Macroeconomic Principles	3
EC 3123 Intermediate Microeconomics	3	ACE 300 Intermediate Applied Microeconomics	3
PS 2703 Intro Public Policy	3	PS 220 Intro to Public Policy	3
PS 1182 Intro to Law I	*2*	*ACE 306 Food Law*	*3*
PS 1192 Intro to Law II	*2*	*ACE 406 Environmental Law*	*3*
ACC 2023 Principles of Managerial Accounting	3		
EC 3113 Intermediate Macroeconomics	3		
EN 4223 Prin Legal Writing	3		
PS 1113 American Government	3		
Restricted Electives	12	Additional ACE or ACES hours	9
Free Electives	17	Free Electives	19
		ACES 101 Contemporary Issues in ACES	2
EN 1103 English Composition I OR EN 1104 Expanded English Composition I	3	RHET 105 Writing and Research	4
EN 1113 English Composition II OR EN 1173 Accelerated Composition II	3	Adv Comp	4
MA 1613 Calculus for Business and Life Sciences I OR MA 1713 Calculus I	3	MATH 220 Calculus, 221 Calculus I, OR 234 Calculus for Business I	4
Natural Sciences	6	Natural Sciences and Technology	6
Humanities	6	Humanities and the Arts	6
Fine Arts	3		
		Foreign Language	4
		Cultural Studies	9
		Social and Behavioral Sciences	6
Total	**124**	**Total**	**126**

MSU - AGB-Production		Illinois - Farm Management	
AEC 1223 Comp App for Ag & Life Sci	3	ACE 161 Microcomputer Applications	3
AEC 2611 Seminar I	1	ACE 341 Issues&Careers in Applied Econ	1
AEC 2713 Intro to Food and Resource Econ	3	ACE 100 Intro to Applied Microeconomics	4
AEC 3113 Introduction to Quantitative Economics	3	MATH 124 Finite Mathematics or 231 Calculus II	3
AEC 3133 Introductory Agribusiness Management	3	ACE 231 Food and Agribusiness Mgt	3
AEC 3513 Economics of Food & Fiber	3	ACE 232 Farm Management	3
AEC 4123 Financial and Commodity Futures Marketing	3	ACE 428 Commodity Futures and Options	3
AEC 4133 Analysis of Food Markets & Prices	3	ACE 427 Commodity Price Analysis	3
AEC 4223 Applied Quantitative Analysis in Agricultural Economics	3	ACE 264 Applied Statistical Methods & Data Analytics 2	3
AEC 4343 Adv Farm Management	3	ACE 432 Advanced Farm Management	3
AEC 4623 Global Marketing of Ag Prod	3	At least 3 hours from study abroad or one international course	3
AEC 4213 Ag Finance	3	ACE 444 Financial Services & Investment Planning	3
AEC 3233 Introduction to Environmental Econ & Policy	3		
AEC 4363 Econ of Precision Ag	3		
AEC 4413 Public Problems of Agriculture	3		
		ACE 222 Agricultural Marketing	3
		ACE 345 Finan Decision Indiv Sm Bus	3
		ACE 360 Spreadsheet Models and Applications	3
ACC 2013 Principles of Financial Accounting	3	ACCY 201 Accounting and Accountancy I	3
BQA 2113 Business Statistical Methods I	3	ACE 262 Applied Statistical Methods and Data Analytics I	3
CO 1003 Fund of Public Speaking	3	CMN 101 Public Speaking	3
EC 2113 Principles of Macroeconomics	3	ECON 103 Macroeconomic Principles	3
EC 3123 Intermediate Microeconomics	3	ACE 300 Intermediate Applied Microeconomics	3
ACC 2023 Principles of Managerial Accounting	3		
ADS 1113 Animal Science	3		
AELC 3203 Prof Writing ANR Hum Sci	3		
BL 2413 Legal Environment of Business	3		
EC 3113 Intermediate Macroeconomics	3		
Restricted Electives	12	Additional ACE or ACES hours	6
Free Electives	15	Free Electives	16
		ACES 101 Contemporary Issues in ACES	2
EN 1103 English Composition I OR EN 1104 Expanded English Composition I	3	RHET 105 Writing and Research	4
EN 1113 English Composition II OR EN 1173 Accelerated Composition II	3	Adv Comp	4
MA 1613 Calculus for Business and Life Sciences I OR MA 1713 Calculus I	3	MATH 220 Calculus, 221 Calculus I, OR 234 Calculus for Business I	4
Natural Sciences	6	Natural Sciences and Technology	6
Humanities	6	Humanities and the Arts	6
Fine Arts	3		
		Foreign Language	4
		Cultural Studies	9
		Social and Behavioral Sciences	6
Total	**124**	**Total**	**126**

External review assessment and feedback of the degree program

An external review, including assessment and feedback of the degree program, was conducted by Dr. Barry Goodwin, the William Neal Reynolds Distinguished Professor of Agricultural Economics at North Carolina State University. Recommendations were incorporated into the modification, to the extent feasible. A copy of the external review is available upon request.

Questions:

1. Will this program change meet local, state, regional, and national educational and cultural needs? If so, please describe.
   The program change is expected to improve the program's ability to meet local, state, regional, and national educational and cultural needs. This expectation comes from the additional coursework in agricultural finance, precision agriculture, law, and additional computer skills, which better matches the skill and training needs of modern agricultural professionals.

2. Will this program change result in duplication in the System? If so, please describe.
   No.

3. Will this program change/advance student diversity within the discipline? If so, please describe.
   This program change is not expected to affect student diversity within the discipline.

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

This program change is expected to increase the potential placement of graduates in that it streamlines the program, ensuring students receive training in core areas while allowing for increased flexibility in non-essentials.

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

This program change is not expected to affect potential salaries.

Learning Outcomes

1. *Students will be able to identify and develop a solution for agribusiness management problems.*
2. *Students will know and understand how economics is integrated into public policy, especially with respect to agribusiness.*
3. *Students will develop skills needed to be successful in their professional career or graduate program in agribusiness or related field.*

4. SUPPORT

A letter of support, signed by all members of the department's curriculum committee, is included here.

A letter of support from each outside department that offers a non-general-education course or courses being added to the proposed curriculum is included. Please note that some courses were simply moved from one section of the program to another, so that although they are shown in bold, their status as a required course has not changed. This applies to:

- *AELC 3203: previously, this course was listed in the Major Core section; we moved it to the Management and Policy & Law Concentration sections.*
- *BL 2413: previously, this course was listed in the Major Core section; we moved it to the Management and Policy & Law Concentration sections.*
- *BQA 2113: previously, this course was listed in the Math section; we moved it to the Major Core section*
- *CO 1003: previously, this course was listed in the "Communication requirement" section; we deleted this section and moved the course to the Major Core section.*

5. PROPOSED 4-LETTER ABBREVIATION

There is no change to the abbreviation for the Agribusiness major (AGB), or for the concentrations: Management (MGT), Policy and Law (POLI), and Production (PROD).

6. EFFECTIVE DATE

We request that this degree program modification becomes effective the semester following approval by the Academic Deans Council.

MISSISSIPPI STATE UNIVERSITY.

SCHOOL OF HUMAN SCIENCES
P. O. Box 9745
Mississippi State, MS 39762
P. 662.325.2950
humansci.msstate.edu

January 26, 2023

University Committee on Courses and Curricula
Re: Degree Modification for Agribusiness (AGB)

Dear Committee:

The Department of Agricultural Economics has proposed a modification of its Agribusiness (AGB) curriculum that would add:

- AELC 4203 as one of three course options (along with AEC 1223 and BIS 1012) to satisfy its computer requirement.

We have reviewed and support the proposed modification as it pertains to the course(s) taught by our department's faculty.

Sincerely,

Michael E. Newman

Michael E. Newman
Professor and Director

C: Dr. Carley Morrison

MISSISSIPPI STATE UNIVERSITY

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

January 30, 2023

TO: Dr. Andy Perkins
Chair, UCCC

FROM: Kevin Rogers
Associate Dean, College of Business

RE: Approval of Modifications to the Agribusiness major

The College of Business supports including the following business courses in the proposed modifications to the Agribusiness major:

- Required major courses: EC 2113, ACC 2013 & 2023, EC 3113 & 3123
- Optional major courses: BIS 1012, BQA 2113, EC 2123
- Management concentration courses: BL 2413, FIN 3123, up to 9 hours of business 3/4000 courses
- Policy & law concentration courses: up to 12 hours from BL and/or EC courses
- Production concentration courses: BL 2413

Sincerely,

Kevin Rogers

Kevin Rogers
Associate Dean and Professor
College of Business

January 10, 2023

University Committee on Courses and Curricula

Re: Degree Modification for Agribusiness (AGB)

Dear Committee:

The Department of Agricultural Economics has proposed a modification of its Agribusiness (AGB) curriculum that would add:

- EN 3313 as one of three course options (along with AELC 3203 and MGT 3213) to satisfy a particular program requirement for its Management and Production concentrations.

We have reviewed and support the proposed modification as it pertains to the course(s) taught by our department's faculty.

Sincerely,

Dan Punday, Head

Department of English

MISSISSIPPI STATE UNIVERSITY

DEPARTMENT OF POULTRY SCIENCE
P. O. Box 9665
Mississippi State, MS 39762
P. 662.325.3416
poultry.msstate.edu

UCCC committee members:

The Department of Poultry Science Faculty unanimously voted in full support of the addition of PO 3313 Commercial Poultry Production to Ag Economic departments AGB curriculum. Poultry Science Faculty agree that PO 3313 would be a beneficial course for students to satisfy an agriculture production concentration requirement. This letter is to confer that as the committee chair, the decision was a unanimous vote to support the AGB curriculum modification and addition of our course PO 3313.

Thanks,

Jessica Wells Digitally signed by Jessica Wells Date: 2023.01.13 16:32:41 -06'00'

Jessica Wells
Curriculum Committee Chair
Assistant Professor
Department of Poultry Science
Mississippi State University
662-325-3416
J.wells@msstate.edu

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF ARTS & SCIENCES
Department of Political Science and
Public Administration

P.O. Box PC
456 Hardy Rd.,
105 Bowen Hall
Mississippi State, MS 39762

P. 662.325.2711
F. 662.325.2716
www.pspa.msstate.edu

January 10, 2023

University Committee on Courses and Curricula
Re: Degree Modification for Agribusiness (AGB)

Dear Committee:
The Department of Agricultural Economics has proposed a modification of its Agribusiness (AGB) curriculum that would add:

- PS 1182 and PS 1192 as required courses within its Policy and Law Concentration;
- Any 3000-4000 level PS course (along with 2000-4000 level AEC courses, 2000-4000 level BL courses, and 3000-4000 level EC courses) to satisfy 12 hours of restricted electives within its Policy and Law concentration.

We have reviewed and support the proposed modification as it pertains to the course(s) taught by our department's faculty.

Sincerely,

Brian Shoup

Dr. Brian Shoup, Professor and Head

Dr. Leslie Baker, Curriculum Committee

Dr. James Chamberlain, Curriculum Committee

Dr. Mike Potter, Curriculum Committeee Mike Potter

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: CALS **Department: Landscape Architecture**

Contact Person: Jason B. Walker **Mail Stop: 9725** **E-mail: jbw156@msstate.edu**
Nature of Change: Gen Ed / Major Core **Date Initiated: 1/20/23** **Effective Date: Fall 2023**
Current Degree Program Name: Bachelor of Landscape Architecture

Major: Landscape Architecture **Concentration: NA**

New Degree Program Name: NA

Major: **Concentration:**

Summary of Proposed Changes:

The degree modification addresses two changes to the BLA program's General Education Requirements, three changes to Major Core Requirements, and updates the degree description.

General Education

1. Technical Change for General Education Mathematics Requirement: removes 3-math hours
2. Moves ENS 2103 Introduction to Environmental Science from LA Major Core to a required General Ed Science

Major Core

1. Adds 3-hours LA Elective as a requirement (any LA prefix course that is not required in the BLA program)
2. Adds LA 4124 Construction V: Construction Documents as a requirement (existing split-level course that is an MLA requirement)
3. Changes Free Electives from 11 hours to 10 hours

Degree Description

1. Updated the degree description to include these changes and language regarding accreditation

Approved:	Date:
Department Head	01/18/2023
Director of Academic Quality	01/13/23
Chair, College or School Curriculum Committee	2/24/23
Dean of College or School	3/3/23
Chair, University Committee on Courses and Curricula	4/19/23
Chair, Graduate Council (if applicable)	
Chair, Deans Council	May 2nd 2023

DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Landscape Architecture Major: Landscape Architecture Concentration:	Degree: Bachelor of Landscape Architecture Major: Landscape Architecture Concentration:
Landscape Architecture Major The profession of landscape architecture offers students the opportunity to engage in shaping the environmental and cultural landscape through planning and design to improve quality of life. *The Mississippi State University Landscape Architecture programs teach* the artful synthesis of social and ecological processes related to planning, designing, building and managing regenerative communities in Mississippi and the Northern Gulf Region, within a global perspective. Students enrolled in the *Bachelor of Landscape Architecture (BLA)* program experience an immersive, intense, and rewarding education structured around a studio environment that promotes critical thinking and creative problem solving. The department *is dedicated to providing* a high-quality education for our students, through small class sizes and one-on-one interaction between student and faculty. *The teaching philosophy of the MSU Department of Landscape Architecture* is rooted in the cultural and ecological phenomena that constitute our placed-based educational approach to empower student learning. Students in the BLA program cultivate their knowledge, skills, *and abilities* in a context specific environment across multiple-scales including the site, community, urban, and regional settings. Our BLA program is the only *accredited bachelor of landscape architecture degree program in the three state region of Alabama, Mississippi, and Tennessee.* The BLA is a Landscape Architectural Accreditation Board (LAAB) accredited professional degree program. The LAAB evaluates a program based on its stated objectives and compliance to externally mandated minimum standards and accredits professional degrees at the bachelor's and master's levels in the United States. Our BLA program prepares students *for entry-level positions* in design offices, public practice, not-for-profits and primes students for graduate studies in allied professions. In addition, our department offers a Bachelor of Science in Landscape Contracting and Management that students in the BLA program can pursue simultaneously. **Curriculum** The four-year BLA curriculum provides the foundational framework for a career in landscape architecture. The	**Landscape Architecture Major** The profession of landscape architecture offers students the opportunity to engage in shaping the environmental and cultural landscape through planning and design to improve quality of life. **The Mississippi State University Bachelor of Landscape Architecture (BLA) program teaches** the artful synthesis of social and ecological processes related to planning, designing, building and managing regenerative communities in Mississippi and the Northern Gulf Region, within a global perspective. Students enrolled in the **BLA** program experience an immersive, intense, and rewarding education structured around a studio environment that promotes critical thinking and creative problem solving. The department **delivers** a high-quality education for our students, through small class sizes and one-on-one interaction between student and faculty. **The MSU Department of Landscape Architecture's teaching philosophy** is rooted in the cultural and ecological phenomena that constitute our placed-based educational approach to empower student learning. Students in the BLA program cultivate their knowledge, skills and **competencies** in a context specific environment across multiple-scales including the site, community, urban, and regional settings. Our BLA program is the only **accredited Bachelor of Landscape Architecture degree program in Mississippi.** The BLA is a Landscape Architectural Accreditation Board (LAAB) accredited professional degree program. The LAAB evaluates a program based on its stated objectives and compliance to externally mandated minimum standards and accredits professional degrees at the bachelor's and master's levels in the United States. Our BLA program prepares students **to pursue careers in landscape architecture** in design offices, public practice, not-for-profits, and primes students for graduate studies in allied professions. In addition, our department offers a Bachelor of Science in Landscape Contracting and Management that students in the BLA program can pursue simultaneously. **Curriculum** The four-year BLA curriculum provides the foundational framework for a career in landscape architecture. The coursework involves knowledge acquisition, skill development, and the ability to **demonstrate competency**

coursework involves knowledge acquisition, skill development, and the ability to *apply knowledge and skill* through the design process. The first year of the program introduces the student to relevant history, theory and criticism, plants and cultural systems, and digital and traditional communication applications. The second year begins the Design and Construction sequence.

The design studio is at the core of the professional program. The professional studio sequence includes six (6) landscape architecture design studios, Design I-V and Landscape Architecture Capstone Studio. Capstone is the climax studio, where students pursue individual or specialized interests through the development of a semester long project. The construction sequence consists of *three (3)* courses, Construction I-III. The studio and construction sequence addresses the design, planning and management of the landscape at multiple scales through the application of the design process.

In years two and three of the program, each student *must* participate in two department led field trips. The field trips are a critical component of the professional curriculum and provide opportunities for students to study, explore, and experience significant works of landscape architecture in the United States and around the world.

The remainder of the required courses in the curriculum addresses professional practice, public policy and regulation, and professional values and ethics. Finally, year four *offers* students *eleven (11)* elective hours of coursework to meet each student's own objectives that lead to a well-rounded university education.

At the successful completion of the fourth year, students receive the professional degree of Bachelor of Landscape Architecture (BLA).

Standards and Requirements

All students in Landscape Architecture are required to have their own personal computer. Students should check with the department for equipment specifications prior to purchasing.

Landscape Architecture requires that a grade of "C" or better is required to fulfill a Major Core Requirement.

The department reserves the right to retain student work for the purpose of records, exhibition, instruction, and accreditation.

In addition to University policies, all students enrolled in this curriculum shall be required to abide by all approved departmental policies.

through the design process. The first year of the program introduces the student to relevant history, theory and criticism, plants and cultural systems, and digital and traditional communication applications. The second year begins the Design and Construction sequence.

The design studio is at the core of the professional program. The professional studio sequence includes six (6) landscape architecture design studios, Design I-V and Landscape Architecture Capstone Studio. Capstone is the climax studio, where students pursue individual or specialized interests through the development of a semester long project. The construction sequence consists of **four (4)** courses, Construction I-III**, and V**. The studio and construction sequence addresses the design, planning and management of the landscape at multiple scales through the application of the design process.

In years two and three of the program, each student **shall** participate in two department led field trips. The field trips are a critical component of the professional curriculum and provide opportunities for students to study, explore, and experience significant works of landscape architecture in the United States and around the world.

The remainder of the required courses in the curriculum addresses professional practice, public policy and regulation, and professional values and ethics. Finally, year four students **choose three (3) LA elective hours and ten (10)** elective hours of coursework to meet each student's own objectives that lead to a well-rounded university education.

At the successful completion of the fourth year, students receive the professional degree of Bachelor of Landscape Architecture (BLA).

Standards and Requirements

All students in Landscape Architecture are required to have their own personal computer. Students should check with the department for equipment specifications prior to purchasing.

Landscape Architecture requires that a grade of "C" or better is required to fulfill a Major Core Requirement.

The department reserves the right to retain student work for the purpose of records, exhibition, instruction, and accreditation.

In addition to University policies, all students enrolled in this curriculum shall be required to abide by all approved departmental policies.

"[Click here and type old concentration description]"		"[Click here and type new concentration description]"	
CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English (Ex: EN 1103 English Comp I): EN 1103 or EN 1104 EN 1113 or EN 1173	6	English (Ex: EN 1103 English Comp I): EN 1103 or EN 1104 EN 1113 or EN 1173	6
Fine Arts (General Education): ART 1113 or ARC 1013	3	Fine Arts (General Education): ART 1113 or ARC 1013	3
Natural Sciences (2 labs required from Gen Ed):	*6-8*	Natural Sciences (2 labs required from Gen Ed): **ENS 2103 Intro to Environmental Science**	**9**
Extra Science (if appropriate)	*3*		
Math (General Education): *Select from General Education Mathematics and Statistics Course List*	*6-9*	Math (General Education): Select from General Education Mathematics and Statistics Course List	**3**
Humanities (General Education): Select from General Education Requirements Humanities Course List	6	Humanities (General Education): Select from General Education Requirements Humanities Course List	6
Social/Behavioral Sciences (Gen Ed): Select from General Education Requirements Social/Behavioral Sciences Course List	6	Social/Behavioral Sciences (Gen Ed): Select from General Education Requirements Social/Behavioral Sciences Course List	6
Major Core Courses		Major Core Courses	
LA 1701 Landscape Professional Career Paths Seminar	1	LA 1701 Landscape Professional Career Paths Seminar	1
ART 1123 Art Design I	3	ART 1123 Art Design I	3
LA 1153 Intro to Landscape Architecture	3	LA 1153 Intro to Landscape Architecture	3
LA 1223 Use of Computer in LA	3	LA 1223 Use of Computer in LA	3
LA 1333 Landscape Systems	3	LA 1333 Landscape Systems	3
LA 1423 History of LA	3	LA 1423 History of LA	3
LA 1533 Presentation Methods and Media	3	LA 1533 Presentation Methods and Media	3
ENS 2103 Intro to Env. Science	*3*		
PSS 2423 Plant Materials I	3	PSS 2423 Plant Materials I	3
LA 2544 Construction I: Materials	4	LA 2544 Construction I: Materials	4
LA 2554 Design I: Site Design	4	LA 2554 Design I: Site Design	4
LA 2652 Precedent Studies	2	LA 2652 Precedent Studies	2
LA 2644 Construction II: Grading	4	LA 2644 Construction II: Grading	4
LA 2654 Design II: Neighborhood Context	4	LA 2654 Design II: Neighborhood Context	4
LA 3534 Const. III: Hydrology	4	LA 3534 Const. III: Hydrology	4
LA 3554 Design III : Town/Rural Context	4	LA 3554 Design III : Town/Rural Context	4
LA 3623 Urban Planning Theory	3	LA 3623 Urban Planning Theory	3
LA 3652 Case Studies of Ex. Works of LA	2	LA 3652 Case Studies of Ex. Works of LA	2
LA 3653 Plant Design Fund in LA	3	LA 3653 Plant Design Fund in LA	3
LA 3654 LA Design IV: Urban Design	4	LA 3654 LA Design IV: Urban Design	4
		LA 4124 Landscape Architecture Construction V	**4**
LA 4723 Professional Practice of LA	3	LA 4723 Professional Practice of LA	3
LA 4754 LA Design V: Regional Context	4	LA 4754 LA Design V: Regional Context	4
LA 4843 Sustainable Communities	3	LA 4843 Sustainable Communities	3

LA 4854 Capstone Studio Electives Oral Communication Requirement Satisfied by successful completion of LA 4854 Capstone Studio Writing Communication Requirement Satisfied by successful completion of LA 4723 Professional Practice Computer Literacy Satisfied by successful completion of LA 1223 Use of Computer in Landscape Arch	4 11	LA 4854 Capstone Studio **LA Elective** Electives Oral Communication Requirement Satisfied by successful completion of LA 4854 Capstone Studio Writing Communication Requirement Satisfied by successful completion of LA 4723 Professional Practice Computer Literacy Satisfied by successful completion of LA 1223 Use of Computer in Landscape Arch	4 **3** **10**
Concentration Courses		Concentration Courses	
Total Hours	124	Total Hours	124

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

The degree modification addresses two changes to the General Education Requirements for the BLA program. First, the General Education Mathematics Modification now requires 3-Math credit hours instead of six (6) credit hours. Second, ENS 2103 Introduction to Environmental Science is moved from a Major Core requirement to a General Education Science requirement. These two changes provide six (6) credit hours that are used to require an LA Elective three (3) hours and LA 4124 Landscape Construction V: Construction Documents that supplement the construction sequence.

Students will be able to choose from LA prefix classes to fulfill the LA Elective requirement. In addition, requiring Construction V (an existing split-level 4124/6124 course that is an MLA requirement) will strengthen are students' competency in construction applications and better prepare them for career opportunities. The curriculum's Free Electives changes from 11 to 10 hours, respectively. The LA faculty believe that making these modifications will strengthen our BLA program.

4. SUPPORT

Attached is a letter of support from the BLA Coordinator and Curriculum Committee.

5. PROPOSED 4-LETTER ABBREVIATION

BLA

6. EFFECTIVE DATE

Fall, 2023

MISSISSIPPI STATE UNIVERSITY
DEPARTMENT OF
LANDSCAPE ARCHITECTURE

COLLEGE OF AGRICULTURE & LIFE SCIENCES
Department of Landscape Architecture
P.O. Box 9725
Mississippi State, MS 39762
P. 662.325.3012
lalc.msstate.edu

January 20, 2023

University Committee on Courses & Curricula
Dr. Andy Perkins, Chair
281 Garner Hall
Box 9702
Mississippi State, MS 39762

UCCC:

The Department of Landscape Architecture's Curriculum Committee discussed modifying the BLA curriculum. Following committee discussion, the committee presented options to the landscape architecture faculty. The faculty supported the option to remove 3-math hours, move ENS 2103 Introduction to Environmental Science from major core to a required General Education Science requirement, add 3-hours LA Elective, add LA 4124 Construction V (existing course), and change Free Electives from 11 hours to 10 hours. The landscape architecture faculty voted to support these curriculum changes to better serve the students in the BLA program.

Sincerely,

Jason B. Walker

Jason B. Walker, ASLA
Undergraduate Coordinator & Curriculum Committee
Department of Landscape Architecture

LA Curriculum Committee:

Dr. Chuo Li	Signature	01/18/2023 Date
Dr. SaMin Han	Signature	01/20/2023. Date
Abbey Wallace	Signature	01/18/2023 Date

cc: SADIK C. ARTUNÇ, FASLA

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: Agriculture & Life Sciences **Department:** School of Human Sciences

Contact Person: Tommy M. Phillips **Mail Stop:** 9745 **E-mail:** tom.phillips@msstate.edu

Nature of Change: Distance Education (Campus 5) **Date Initiated:** 9/15/22 **Effective Date:** Fall 2023

Current Degree Program Name: B.S. in Human Development & Family Science

Major: Human Development & Family Science **Concentration:** Youth Development

New Degree Program Name: No change

Major: No change **Concentration: No change**

Summary of Proposed Changes: Offer Youth Development Concentration of Human Development and Family Science B.S. degree through distance education.
Three hours moved from General Education Math to General Electives.

Approved:	**Date:**
Department Head	10-19-22
Director of Academic Quality	11-3-22
Chair, College or School Curriculum Committee	2/27/23
Dean of College or School	3/3/23
Chair, University Committee on Courses and Curricula	4/19/23
Chair, Graduate Council (if applicable)	
Chair, Deans Council	May 2nd 2023

DEGREE APPROVALS FOR DISTANCE LEARNING

1. CATALOG DESCRIPTION

The Youth Development curriculum prepares students to understand and work effectively with children and adolescents, ages 10-18, in a variety of settings. The program provides students with a comprehensive view of the needs and developmental characteristics of youths, as well as the challenges facing today's youths. Emphasis is placed on understanding how youth development does not occur in isolation but is situated in, and affected by, contexts such as relationships, family, neighborhood/ community, school, culture, the economy, and society. Youth Development students gain valuable real-world experience through a required field experience course and an internship. Students are also able to develop specific areas of specialization to fit their career interests by choosing from a generous variety of focus area courses.

No change to the catalog description is proposed.

2. CURRICULUM OUTLINE

CURRENT Degree Description	PROPOSED Degree Description
Degree: Human Development and Family Science Major: Human Development and Family Science Concentration: Youth Development	Degree: Human Development and Family Science Major: Human Development and Family Science Concentration: Youth Development
This program offers an interdisciplinary lifespan approach to the study of children, youth, and families. It encompasses specialty areas in preschool teaching, childcare, youth development, family science, child life, and family and consumer sciences teacher education. Students develop an awareness of trends, issues and public policy affecting families and analyze factors that influence cognitive, emotional, social and physical development in the contexts of culture and family. Graduates enter diverse public and private sectors that focus on enabling children, youth, and families to function effectively in today's complex society. Specific course work is required to specialize in each area or meet Class A teacher licensure requirements for family and consumer sciences in the state of Mississippi. Specific course work is also required to specialize in preschool education, youth development, or family science. A grade of "C" or better is required for all major courses (Human Development and Family Science courses).	This program offers an interdisciplinary lifespan approach to the study of children, youth, and families. It encompasses specialty areas in preschool teaching, childcare, youth development, family science, child life, and family and consumer sciences teacher education. Students develop an awareness of trends, issues and public policy affecting families and analyze factors that influence cognitive, emotional, social and physical development in the contexts of culture and family. Graduates enter diverse public and private sectors that focus on enabling children, youth, and families to function effectively in today's complex society. Specific course work is required to specialize in each area or meet Class A teacher licensure requirements for family and consumer sciences in the state of Mississippi. Specific course work is also required to specialize in preschool education, youth development, or family science. A grade of "C" or better is required for all major courses (Human Development and Family Science courses).

The Youth Development curriculum prepares students to understand and work effectively with children and adolescents, ages 10-18, in a variety of settings. The program provides students with a comprehensive view of the needs and developmental characteristics of youths, as well as the challenges facing today's youths. Emphasis is placed on understanding how youth development does not occur in isolation but is situated in, and affected by, contexts such as relationships, family, neighborhood/ community, school, culture, the economy, and society. Youth Development students gain valuable real-world experience through a required field experience course and an internship. Students are also able to develop specific areas of specialization to fit their career interests by choosing from a generous variety of focus area courses.	The Youth Development curriculum prepares students to understand and work effectively with children and adolescents, ages 10-18, in a variety of settings. The program provides students with a comprehensive view of the needs and developmental characteristics of youths, as well as the challenges facing today's youths. Emphasis is placed on understanding how youth development does not occur in isolation but is situated in, and affected by, contexts such as relationships, family, neighborhood/ community, school, culture, the economy, and society. Youth Development students gain valuable real-world experience through a required field experience course and an internship. Students are also able to develop specific areas of specialization to fit their career interests by choosing from a generous variety of focus area courses.

CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
EN 1103 English Comp I or EN 1104 Expanded Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6	EN 1103 English Comp I or EN 1104 Expanded Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Natural Sciences (2 lab sciences required from Gen Ed) Select from Gen Ed courses for Child Development, Youth Development, Family Science, and FCS Education; BIO 1004 – Anatomy & Physiology required for Child Life concentration	9	Natural Sciences (2 lab sciences required from Gen Ed) Select from Gen Ed courses for Child Development, Youth Development, Family Science, and FCS Education; BIO 1004 – Anatomy & Physiology required for Child Life concentration	9
Extra Science (if appropriate) HS 2293 Individual and Family Nutrition required for FCS Education Select from Gen Ed courses for Child Development, Child Life, Youth Development, and Family Science		Extra Science (if appropriate) HS 2293 Individual and Family Nutrition required for FCS Education Select from Gen Ed courses for Child Development, Child Life, Youth Development, and Family Science	
Math (General Education):	6	Math (General Education):	3
Humanities (General Education): PHI 1123 – Intro to Ethics required for Child Life concentration	6	Humanities (General Education): PHI 1123 – Intro to Ethics required for Child Life concentration	6
Social/Behavioral Sciences (Gen Ed): HDFS 1813 is required for all HDFS students EPY 3543 required for FCS Education	6	Social/Behavioral Sciences (Gen Ed): HDFS 1813 is required for all HDFS students EPY 3543 required for FCS Education	6
General Ed Core	36	General Ed Core	33

Major Core Courses HS 1701 Survey of Human Sciences HDFS 2813 Child Development HDFS 4313 Family Resource Management HDFS 4333 Families, Legislation, & Public Policy HDFS 4424 Teaching Methods in Ag & HS OR HDFS 4624 Family Life Education Methodology HDFS 4701 Internship Preparation HS 4702 Research and Application in HS HDFS 4803 Parenting HDFS 4843 Family Interaction HDFS 4883 Risk, Resilience, & Preventive Interventions Writing Competency met by: AELC 3203 Professional Writing in Agriculture, Natural Resources, and Human Sciences OR EDF 3413 Writing for Thinking OR EPY 3513 Writing for Behavioral Sciences OR MGT 3213 Organizational Communication		Major Core Courses HS 1701 Survey of Human Sciences HDFS 2813 Child Development HDFS 4313 Family Resource Management HDFS 4333 Families, Legislation, & Public Policy HDFS 4424 Teaching Methods in Ag & HS OR HDFS 4624 Family Life Education Methodology HDFS 4701 Internship Preparation HS 4702 Research and Application in HS HDFS 4803 Parenting HDFS 4843 Family Interaction HDFS 4883 Risk, Resilience, & Preventive Interventions Writing Competency met by: AELC 3203 Professional Writing in Agriculture, Natural Resources, and Human Sciences OR EDF 3413 Writing for Thinking OR EPY 3513 Writing for Behavioral Sciences OR MGT 3213 Organizational Communication	
Major Core Hours	29	Major Core Hours	29

Youth Development Concentration

HDFS 3000 Field Experience (3 hours)
HDFS 3813 Lifespan Theory
HDFS 4780 Youth Development Internship (12 hours)
HDFS 4873 Positive Youth Development
HDFS 4893 Adolescent Development
PSY 4223 Drug Use and Abuse
OR SW 4533 Substance Abuse and Addictions in Social Work Services
CO 1003 Fundamentals of Public Speaking
OR CO 1013 Introduction to Communication

Choose three of the following (9 hours)
AELC 4403 Development of Youth Programs
PSY 3413 Human Sexual Behavior
EDX 3213 Psy & Ed of Exc Child & Youth
COE 4013 Facilitative Skills Dev
EPY 3543 Psychology of Adolescence

Choose 15 hours from the following
*HDFS 2023 Trauma-Informed Practice Certificate Course
*HDFS 2123 Perspectives on Child Maltreatment
*HDFS 3123 Global Child Advocacy Issues
HDFS 3833 Human Dev. in the Context of Leisure & Rec.
HDFS 3673 Environments for Special Needs
EDX 4423 Teaching the Disadvantaged Child
EPY 3503 Principles of Educational Psychology,
EPY 3553 Giftedness/Creativity
SO 4233 Juvenile Delinquency
SO 3313 Deviant Behavior
SO 3503 Violence in the U.S.
SO 3603 Criminology
SO 4333 Sociology of Sport
SO 3213 Intro to Social Research
SO 2203 Cultural and Racial Minorities
PE 3033 Basketball/Football Officiating
PE 3133 Adaptive Physical Education
PE 3533 Coaching Sports
KI 2213 Emergency Healthcare
PE 3433 General Safety Methods
MGT 3213 Organizational Communications
MGT 3113 Prin of Mgt
MGT 3513 Intro to Human Res Mgt

Youth Development Concentration

HDFS 3000 Field Experience (3 hours)
HDFS 3813 Lifespan Theory
HDFS 4780 Youth Development Internship (12 hours)
HDFS 4873 Positive Youth Development
HDFS 4893 Adolescent Development
PSY 4223 Drug Use and Abuse
OR SW 4533 Substance Abuse and Addictions in Social Work Services
CO 1003 Fundamentals of Public Speaking
OR CO 1013 Introduction to Communication

Choose three of the following (9 hours)
AELC 4403 Development of Youth Programs
PSY 3413 Human Sexual Behavior
EDX 3213 Psy & Ed of Exc Child & Youth
COE 4013 Facilitative Skills Dev
EPY 3543 Psychology of Adolescence

Choose 15 hours from the following
*HDFS 2023 Trauma-Informed Practice Certificate Course
*HDFS 2123 Perspectives on Child Maltreatment
*HDFS 3123 Global Child Advocacy Issues
HDFS 3833 Human Dev. in the Context of Leisure & Rec.
HDFS 3673 Environments for Special Needs
EDX 4423 Teaching the Disadvantaged Child
EPY 3503 Principles of Educational Psychology,
EPY 3553 Giftedness/Creativity
SO 4233 Juvenile Delinquency
SO 3313 Deviant Behavior
SO 3503 Violence in the U.S.
SO 3603 Criminology
SO 4333 Sociology of Sport
SO 3213 Intro to Social Research
SO 2203 Cultural and Racial Minorities
PE 3033 Basketball/Football Officiating
PE 3133 Adaptive Physical Education
PE 3533 Coaching Sports
KI 2213 Emergency Healthcare
PE 3433 General Safety Methods
MGT 3213 Organizational Communications
MGT 3113 Prin of Mgt
MGT 3513 Intro to Human Res Mgt

MGT 38 13 Organizational Behavior MGT 4563 Staffing in Organizations MKT 3013 Principles in Marketing MKT 3213 Retailing MKT 4113 Personal Selling MKT4123 Advertising *Meets Requirements for Trauma Informed Child Advocacy Certificate *5 hours electives*		MGT 38 13 Organizational Behavior MGT 4563 Staffing in Organizations MKT 3013 Principles in Marketing MKT 3213 Retailing MKT 4113 Personal Selling MKT4123 Advertising *Meets Requirements for Trauma Informed Child Advocacy Certificate **8 hours electives**	
	59		**62**
Total Hours	124	Total Hours	124

3. JUSTIFICATION FOR DISTANCE LEARNING OFFERING

This proposal is consistent with the University's emphasis on distance education and responds to multiple requests for an online degree in HDFS with a concentration in Youth Development. The courses will use web-based delivery. Specific strategies for promoting student participation and interaction will vary by course but will include online discussion boards, required online lectures, and collaborative projects.

TARGET AUDIENCE

The target audience includes (1) recent high school graduates unable to enroll on campus; (2) individuals at a distance from the University campus that are currently employed and desire to earn a degree in HDFS with a concentration in Youth Development from MSU, (3) professionals in the area of youth programming that need a degree in Youth Development to maintain or enhance employment, and (4) active duty military personnel who would like to earn a degree in Youth Development from Mississippi State University at a distance. Distance only students will be allowed to enroll in the degree program.

Appendix 10: Report of Intent to Offer an Existing Degree Program by Distance Learning
(Submit Appendix 10 in PDF format with signatures)

Institution:

Date of Initial Program Approval:	Date of Implementation:	Cost to Offer by Distance Learning:
2/18/16	Fall 2023	$105,000

Program Title as It Appears on Academic Program Inventory, Diploma, and Transcript: Human Development and Family Science, Youth Development

Six-Digit CIP Code(s) & Four-Digit Sequence Code(s): 19.0701 & 5862
CIP & Sequence codes: IHL Active Program Inventory

Degree(s) to be Awarded: Bachelor of Science

Credit Hour Requirements: 124

Can this program be completed entirely online? ☒ Yes ☐ No

Will this program require separate admission from those offered on-campus? ☐ Yes ☒ No

Responsible Academic Unit(s):
School of Human Sciences

Institutional Contact: Tommy M. Phillips
Phone: (662) 325-0655
Email: tom.phillips@msstate.edu

Number of Students Expected to Enroll in First Six Years:		Number of Graduates Expected in First Six Years:	
Year One	5	Year One	
Year Two	5	Year Two	1
Year Three	10	Year Three	3
Year Four	15	Year Four	3
Year Five	20	Year Five	9
Year Six	25	Year Six	12
Total	80	Total	28

Program Summary: The Youth Development curriculum prepares students to understand and work effectively with children and adolescents, ages 10-18, in a variety of settings. The program provides students with a comprehensive view of the needs and developmental characteristics of youths, as well as the challenges facing today's youths. Emphasis is placed on understanding how youth development does not occur in isolation but is situated in, and affected by, contexts such as relationships, family, neighborhood/ community, school, culture, the economy, and society. Youth Development students gain valuable real-world experience through a required field experience course and an internship. Students are also able to develop specific areas of specialization to fit their career interests by choosing from a generous variety of focus area courses.

Chief Academic Officer Signature _____ Date _____

Institutional Executive Officer Signature _____ Date _____

4. LEARNING OUTCOMES

The learning outcomes from the distance education concentration in Youth Development will not vary from those for the Campus 1 degree program.

5. EFFECTIVE DATE

Fall 2023

6. CONTACT PERSON

Tommy M. Phillips (662)325-0655

7. LETTER OF SUPPORT

A letter of support is provided by the School of Human Sciences Curriculum Committee.

MISSISSIPPI STATE UNIVERSITY.

SCHOOL OF HUMAN SCIENCES
P. O. Box 9745
Mississippi State, MS 39762
P. 662.325.2950
humansci.msstate.edu

October 19, 2022

Dr. William Davis
Chair, CALS Curriculum Committee
MS State, MS 39762

Dear Dr. Davis:

The School of Human Sciences Curriculum Committee affirms support for the curriculum revisions for the Human Development and Family Science undergraduate program. This program is offered for students in Campus 5.

Sincerely,

Carley C. Morrison
Carley C. Morrison, Chair

Chelsea Panse-Barone
Chelsea Panse-Barone

OP McCubbins
OP McCubbins

Julie C Parker
Julie C. Parker

Charles Freeman
Charles Freeman

Cappe Hallberg
Cappe Hallberg

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: A&S **Department:** Anthropology and Middle Eastern Cultures

Contact Person: Hsain Ilahiane **Mail Stop:** 9557 **E-mail:** hi61@msstate.edu

Nature of Change: Adding a course to the major core and additional math options

Date Initiated: 1/31/2023

Effective Date: Fall 2023

Current Degree Program Name: Anthropology and Middle Eastern Cultures

Major: AN **Concentration:** N/A

New Degree Program Name: N/A

Major: N/A **Concentration:** N/A

Summary of Proposed Changes:

We propose to add a course (AN 3563 Data Analytics for Anthropology) to the Major Core as well adjusting the math options to satisfy the General Education requirement while giving students additional courses to choose from. The course focuses on constructing research questions, finding or collecting data, quantitative methods, and visualization of results. This course will help students to construct research questions, become familiar with statistical packages commonly used in anthropological research and focus on methods for effectively communicating data results. The remaining portions of the modification are not substantive in nature and are intended to provide better clarity of current college requirements.

Approved:	Date:
Department Head	2/7/2023
Director of Academic Quality	2/22/23
Chair, College or School Curriculum Committee	2/24/2023
Dean of College or School	2/24/23
Chair, University Committee on Courses and Curricula	4/19/23
Chair, Graduate Council(if applicable)	
Chair, Deans Council	May 2nd 2023

Proposal for Degree Modification

1. Catalog Description: no changes are requested to the catalog description.

2. Curriculum Outline Table

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Arts Major: Anthropology	No change
Anthropology is the study of humans as biological and cultural beings. Its subfields include archaeology, biological anthropology, cultural anthropology, and linguistics. Students majoring in anthropology may undertake course work in all four subfields, with concentrations offered in archaeology and cultural and biological anthropology. Anthropology is a particularly broad major, designed for students who are preparing for employment with research organizations or museums, cultural research management for administrative and research positions with state or federal governments (such as state highway departments, medical examiner's offices, and the National Park Service), and with human service agencies, non-governmental organizations (NGO's), or organizations that involve work in both the U.S. and foreign countries. The undergraduate major in anthropology also prepares students for graduate training in professional fields such as environmental and sustainability studies, planning, law, medicine, public health, forensics, and public administration, as well as for graduate training in anthropology leading to college and university teaching and research positions. A student wishing to pursue a program leading to a Bachelor of Arts with a major in anthropology is required to complete the program of study outlined on this page. Students are encouraged to take elective	No change

courses in related fields which will strengthen their academic training and job skills. These may include courses in history, human biology, disease, and anatomy, soils, geology, criminology, and geographic information systems (GIS). Students are eligible for membership in the Alpha chapter of Lambda Alpha, the national anthropology honor society. In order to be considered, a student must have at least a 2.50 overall GPA, with a 3.00 GPA in anthropology courses, and have earned a minimum of 12 semester hours credit in anthropology. Part-time jobs are available for anthropology majors through the Department of Anthropology and Middle Eastern Cultures and through the Cobb Institute of Archaeology. The Anthropology faculty and staff are housed in the Cobb Institute of Archaeology. Facilities include archaeology, bioarchaeology, and forensics laboratories and a museum. The museum houses artifacts from Mississippi and the Middle East, including replicas of large-scale relief sculptures and statues from Assyria and Egypt. Anthropology may be used as a minor field of study at both the undergraduate and graduate levels. Fifteen hours (nine hours must be 3000 level or above), including AN 1103, constitute an undergraduate minor. Requirements for an anthropology minor at the graduate level will be established in consultation with the anthropology graduate advisor. Courses taken for an undergraduate or graduate minor must be taught by anthropology faculty.	

CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English Composition: EN 1103 English Composition I or	3	English Composition: EN 1103 English Composition I or	3

EN 1163 Accelerated Composition I EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3	**EN 1104 Expanded English Composition I** EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3
Foreign Language: *3 semesters one Foreign Language – See advisor.*	 *9*	Foreign Language: **Foreign Language I** **Foreign Language II** **Foreign Language III**	 **3** **3** **3**
Humanities: Literature– *see General Education courses* History– *see General Education courses* Philosophy– *see A&S requirements* Humanities Elective- *Consult Advisor. Must be from two different areas – See A&S core.*	 3 3 3 9	Humanities: Literature– **A&S core** History– **A&S core** Philosophy– **A&S core** Humanities Electives [1]	 3 3 3 9
Mathematics: MA 1313 College Algebra MA/ST 2113 Introduction to Statistics	 3 3	Mathematics: MA/ST 2113 Introduction to Statistics **or** **MA 1323 Trigonometry or** **MA 1613 Business Calculus or** **MA 1713 Calculus I**	 3
Fine Arts: *See* A&S Core *List.*	 3	Fine Arts: A&S core	 3
Natural Sciences: Physical Sciences w/lab *(CH, GG, PH)* [1] Life Science w/lab *(BIO)* Natural Science Elective [2]	 3-4 3-4 3-4	Natural Sciences: Physical Science w/ lab- **A&S core** Life Science w/ lab- **A&S core** Natural Science Elective- **A&S core**	 3-4 3-4 3-4
Social Sciences: *See General Education courses* Social Sciences Electives [3]	 6 12	Social Sciences: **A&S core** Social Science Electives [2]	 **6** **12**
Major Core: AN 1143 Introduction to Cultural Anthropology	 3	Major Core: AN 1143 Introduction to Cultural Anthropology	 3

AN 1344 Introduction to Biological Anthropology AN 1543 Introduction to Archaeology *Anthropology Upper Div Electives- see advisor* *Anthropology Lower or Upper Division Elective*	4 3 18 *2*	AN 1344 Introduction to Biological Anthropology AN 1543 Introduction to Archaeology **AN 3513 Artifact Analysis or AN 4143 Ethnographic Methods** **AN 3563 Data Analytics for Anthropology** **AN 4123 Anthropological Theory** Anthropology Elective Anthropology Upper Division Electives	4 3 **3** **3** **3** 3 18
Oral Communication *Requirement*: *AN 4123 Anthropological Theory*	*3*	Oral Communication: **Satisfied with AN 4123 in the major**	
Writing Requirement: *AN 4123 Anthropological Theory*	*3*	**Jr/Sr Writing:** **Satisfied with AN 4123 in the major**	
Computer Literacy: *AN 4143 Ethnographic Methods or AN 3513 Artifact Analysis*	*3*		
General Electives: *General Electives- consult advisor*	*12-24*	General Electives: **Consult advisor**	**14-17**
Total Hours	*124*	Total Hours	**123**
Note: Minimum hours required is 123 but based on electives chosen more hours may be taken. *[1] See General Education courses.* *[2] Consult advisor.* *[3] Must be from 2 different areas and must cross 4 disciplines over the 18 hours. Only one Economics allowed. Two Anthropology courses may be included. Consult advisor.*		**Note: Students must complete 31 upper division hours in A&S in residence at MSU.** **[1] Humanities electives must be courses in A&S and must cover two disciplines.** **[2] Social Science electives must be courses in A&S. The total 18 hours in Social Science must cover four disciplines; maximum of 6 hours per discipline; only one EC and one CO from A&S core list allowed.**	

3. Justification

This modification is a response to the change in university requirements for math courses. We propose to add a course to the mathematics requirements that deals specifically with the analysis of anthropological data. The course focuses on constructing research questions, finding or collecting data, quantitative methods, and visualization of results. This course will help students to construct research questions, become familiar with statistical packages commonly used in anthropological research and focus on methods for effectively communicating data results.

The introduction of this course as an elective last year (2022) was in response to discussions with industry professionals and graduate students about the need for a course that specifically highlights the various analytical approaches within anthropology. This course will help to prepare students to be successful in graduate programs as well as in industry. Being able to effectively analyze and visualize data will make our students better able to take on additional roles in industry (preparing proposals and reports) as well as make them more effective graduate students, better able to effectively communicate the results of their research. Based on the positive response to this course, both from industry professionals and students who completed the course, we feel that this is an important skill set for our students to possess as they move forward in their careers.

The additional modifications are not substantive in nature and are intended to provide better clarity of current college requirements.

4. **Support letter**
   Attached

5. **Proposed 4-letter abbreviation:**
   AMEC (no change)

6. **Effective Date:**
   Fall 2023

MISSISSIPPI STATE UNIVERSITY

College of Arts and Sciences
Department of Anthropology and Middle Eastern Cultures

P.O. Box AR
340 Lee Blvd, Rm 204 Cobb
Mississippi State, MS 39762

P. 662.325.1781

www.amec.msstate.edu

Date: January 31, 2023

Dear members of the UCCC

I am writing on behalf of the Department of Anthropology and Middle Eastern cultures (AMEC) to confirm that the AMEC Curriculum Committee has reviewed the curriculum modifications proposed here. With changes to the A&S mathematics requirement, we propose to add AN 3563 (Data Analytics in Anthropology) to the Mathematics requirement. This will result in no change in the required number of credit hours for the degree program. This course will provide important and applied approaches for the analysis of data within Anthropology and better prepare students for graduate school and/or industry.

Sincerely,

Dr. Hsain Ilahiane,
Department head, Professor

Dr. Anna Ostenholtz, Ph.D.
Chair, AMEC Curriculum Committee, Associate Professor

D. Shane Miller

Dr. D. Shane Miller
AMEC Curriculum Committee Member, Associate Professor

Dr. Jordan Lynton Cox
AMEC Curriculum Committee Member, Assistant Professor

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: Arts and Science **Department:** Department of Sociology

Contact Person: Ashley Vancil-Leap **Mail Stop:** 9562 **E-mail:** avleap@soc.msstate.edu
Nature of Change: New online B.S. degree in Applied Sociology
Date Initiated: October 2022 **Effective Date:** Fall 2023

Current Degree Program Name:
Major: **Concentration:**

New Degree Program Name: Applied Sociology
Major: **Concentration:**

Summary of Proposed Changes: The purpose of this proposed new online B.S. degree in Applied Sociology is to provide an option for online/distance students who are degree-seeking students at MSU to learn more about the field of Applied Sociology and to gain the skills and training needed to apply social scientific methods and research to address social problems in real-world experiences.

Approved:	**Date:**
Department Head	1/11/23
Director of Academic Quality	2/6/23
Chair, College or School Curriculum Committee	3/1/23
Dean of College or School	3/1/23

	4/19/23
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council(if applicable)	
Peter L. Ryan	May 8nd, 2023
Chair, Deans Council	

CATALOG DESCRIPTION AND CURRICULUM OUTLINE

PROPOSED New Degree

Degree: Bachelor of Science
Major: Applied Sociology
Concentration: N/A

The following degree program is offered: Bachelor of Science.

Applied Sociology is the scientific study of methods and research to address social problems in real-world experiences.

Applied Sociology majors are well prepared to enter many rewarding positions in the work force right out of college or further graduate training in law, business, community planning, architecture, medicine, politics, or academics. Opportunities for employment include, but are not restricted to entry-level positions in administration, advertising, banking, counseling (family planning, career, substance abuse, etc.), health services, journalism, group and recreation work, marketing and market research, sales, non-profit organizations, teaching, criminal justice, social services, and social research. In addition, applied sociology provides training that other liberal arts majors do not, such as the core elements of research methods and the training for research analyst positions in real-world settings.

To earn a Bachelor of Science degree with a major in applied sociology, a student is required to take 36 hours of applied sociology.

All new freshmen desiring to major in Applied Sociology will be admitted into the Applied Sociology major in the College of Arts and Sciences at Mississippi State University. For all other students wishing to major in Applied Sociology, to be eligible for admission to the Applied Sociology program, students must have a cumulative GPA of 2.0 or above on all college work attempted prior to entering the major. The criteria for remaining in the program include:

1. Students must earn a minimum of a "C" in all Applied Sociology courses. Students earning a grade lower than C in an Applied Sociology course must retake that course.
2. Students must maintain an overall GPA of 2.0 or above. Students who fall below the overall GPA of 2.0 must bring it up to 2.0 the next semester or drop the Applied Sociology major.

Applied Sociology Major Course Requirements

Required courses include: ASO 1003 Introduction to Applied Sociology, SO 1103 Contemporary Social Problems, SO 3003 Social Inequality, SO 3053 Organizations in Modern Society, ASO 3213 Applied Sociology Research Methods, and ASO 4803 Applied Sociology Capstone Course.

Students are also required to choose two from the follow three categories of the following courses:
Social Problems in Society: Choose 2 courses
SO 3703 Racial and Ethnic Inequality
SO 4273 Sociology of Education
SO 4423 Health and Society
SO 4703 Population Problems and Processes
CRM 3103 Contemporary Issues in Criminal Justice

Community, Policy, and Practice: Choose 2 courses
SO 4123 Poverty Analysis
ASO 4153 Internship in Applied Sociology
SO 4503 Gender and Work
SO 4733 Community: Organization and Relationships
CRM 3113 Community Crime Prevention and Policy

Applied Sociological Methods: Choose 2 courses
ASO 3103 Program Evaluation

ASO 3203 Survey Design and Evaluation
ASO 4103 Applied Data Management
ASO 4203 Focus Groups and Interviewing
GR 4303 Principles of GIS

Finally, students must select one free elective from any SO, ASO, SW or CRM course, including any of those not listed above.

Students who wish to major in the department should plan their programs with the departmental major advisor as soon as possible after entering the University and should consult with their advisor before each registration period. The program is arranged individually to combine the most varied advantages consistent with the student's interest and purposes.

Proposed Curriculum Outline	Required Hours
English Composition:	
EN 1103 English Composition I	3
EN 1113 English Composition II	3
Foreign Language:	
Foreign Language I	3
Foreign Language II	3
Foreign Language III	3
Humanities:	
Literature– A&S core	3
History– A&S core	3
Philosophy– A&S core	3
Humanities Elective [1]	9
Mathematics:	
MA 1313 College Algebra	3
MA/ST 2113 Introduction to Statistics	3
Fine Arts:	
A&S core	3
Natural Sciences:	
Physical Science w/ lab– A&S core	3-4
Life Science w/ lab– A&S core	3-4
Natural Science Elective– A&S core	3-4
Social Sciences:	
Social Science– A&S core	6
Social Science Electives [2]	12
Major Core:	
ASO 1003 Introduction to Applied Sociology	3
SO 1103 Contemporary Social Problems	3
SO 3003 Social Inequality	3
SO 3053 Organizations in Modern Society	3
ASO 3213 Applied Sociology Research Methods	3
ASO 4803 Applied Sociology Capstone Course	3
Electives	
Social Problems in Society: Choose 2 of the following:	6
SO 3703 Racial and Ethnic Inequality	
SO 4273 Sociology of Education	
SO 4423 Health and Society	
SO 4703 Population Problems and Processes	
CRM 3103 Contemporary Issues in Criminal Justice	

Community, Policy, and Practice: Choose 2 of the following: SO 4123 Poverty Analysis ASO 4153 Internship in Applied Sociology SO 4503 Gender and Work SO 4733 Community: Organization and Relationships CRM 3113 Community Crime Prevention and Policy Applied Sociological Methods: Choose 2 of the following: ASO 3103 Program Evaluation ASO 3203 Survey Design and Evaluation ASO 4103 Applied Data Management ASO 4203 Focus Groups and Interviewing GR 4303 Principles of GIS	6 6
Free Elective: Choose 1 course Student may choose any SO, ASO, SW, or CRM course.	3
Oral Communication: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3
Jr/Sr Writing: Satisfied with ASO 4803 in the major	
General Electives: Consult advisor	10-13
Total Hours	124
Note: Students must complete 31 upper division hours in A&S at MSU. [1] Humanities electives must be courses in A&S and must cover two disciplines. [2] Social Science electives must be courses in A&S. The total 18 hours in Social Science must cover four disciplines; maximum of 6 hours per discipline; only one EC and one CO from A&S core list allowed across the 18 hours.	

STUDENT LEARNING OUTCOMES AND ASSESSMENT

Students will be required to complete a minimum of 124 hours of course work. This includes the university/A&S core curriculum and the required Applied Sociology courses. Together, the program of study seeks to provide students a well-rounded curriculum that will help them develop an integrated understanding of applied sociology and equip them with the core knowledge and skills needed in applied careers.

The specific desired student learning outcomes are provided below. These outcomes are aligned with the College of Arts and Science learning objectives and reflect the knowledge and skills valued by applied sociology employers.

Critical Thinking and Problem Solving:

- Students will apply analytical, critical, and logical reasoning skills to generate solutions for complex problems in real-world settings.
- Students will analyze logistics and related processes to improve research methods and enhance decision making.
- Students will demonstrate an understanding of key concepts and methodologies and the ability to consider related decisions from a holistic perspective.

Data Analysis:

- Students will utilize applied sociology research techniques to analyze data, support decision making, and generate solutions for complex problems in real-world settings.

Communication:

- Students will demonstrate strong written and oral communication skills.

Multiple methods will be used to evaluate student learning and program effectiveness:

- Student learning will be assessed through course assessments (exams, quizzes, homework, and projects).
- The Office of Institutional Effectiveness at MSU conducts exit surveys of graduates and tracks admission, retention, graduation, and graduate placement rates that will be used to evaluate the program's effectiveness.
- The College of Arts and Science utilizes a variety of measures to assess student learning that will also be used to help evaluate the program's effectiveness.
- The Center for Distance Education utilizes a variety of measures to assess student learning that will also be used to help evaluate the program's effectiveness.
- Surveys and active engagement with employers and recent graduates will be used to monitor needs and assess (and if needed) adjust program content.

TARGET AUDIENCE

The target audience for this program will include online/distant students around the state of Mississippi, the United States and beyond.

JUSTIFICATION AND MORE

The B.S. in Applied Sociology offered by the Department of Sociology applies social scientific methods and research to address social problems in real-world experiences. The goal of the degree is to provide undergraduate students with a pathway to learn more about the skills and training that will be needed in such professions. Students must complete a total of 124 hours within the major. Eighteen of those hours include required courses, another 18 hours include elective hours and 3 hours are free electives.

This program of study is unlike any other program offered in the state of Mississippi. No other university or college in the state offers such a program, despite the evidence from the EAB Market Insights report showing that students are interested in such a program. In September 2021, the Department of Sociology at MSU had a "New Undergraduate Sociology Program Opportunities" report created by EAB Market Insights. After their analysis, the program with the strongest potential (4.14/5) for enrollment growth was an Applied Sociology program. They identified that such a program would have high projected employment growth (i.e., 19.89 perfect) and high average monthly growth in postings (i.e., 7.52 percent) for "Market Research Analysts and Marketing Specialists" and "Management Analysis" signal high need for relevant professionals. They also identified that it would be possible to adapt existing sociology courses focused on research methodology and statistical analysis to align with applied sociology. For these reasons, the Department of Sociology at MSU felt it was best to pursue an online degree program in Applied Sociology.

Additionally, Applied Sociology majors will be well prepared to enter many rewarding positions in the work force right out of college or further graduate training in law, business, community planning, architecture, medicine, politics, or academics. Opportunities for employment include, but are not restricted to entry-level positions in administration, advertising, banking, counseling (family planning, career, substance abuse, etc.), health services, journalism, group and recreation work, marketing and market research, sales, non-profit organizations, teaching, criminal justice, social services, and social research. In addition, applied sociology provides training that other liberal arts majors do not, such as the core elements of research methods and the training for research analyst positions in real-world settings.

SUPPORT

The proposal has the support of the Department of Sociology, the Department of Geosciences, and the Gender Studies Program. Please see the attached letters of support.

PROPOSED 4-LETTER ABBREVIATION: ASO

EFFECTIVE DATE: Fall 2023

CIP NUMBER: 45.1101

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF ARTS & SCIENCES

Department of Sociology
P.O. Box C
456 Hardy Road/207 Bowen Hall
Mississippi State, MS 39762
P. 662.325.2495
F. 662.325.4564
www.sociology.msstate.edu

December 7, 2022

Dear Chair, University Committee on Courses and Curriculum,

Please accept this letter of support for the new online degree program Applied Sociology, housed within the Department of Sociology. We voted to support this addition at the Sociology, Criminology and Social Work Undergraduate Curriculum Committee meeting, as well as the entire faculty on Friday, December 2, 2022. The addition of this new program had unanimous support. We believe the addition of this program will fill the gap in the growing interest and need for applied sociologist in Mississippi and across the country. For these reasons, our faculty are fully supportive of the addition. Please contact Dr. Ashley Vancil-Leap, Chair of the Undergraduate Curriculum and Policies Committee if you have any further questions.

Sincerely,

Department of Sociology, Criminology and Social Work
Undergraduate Curriculum and Policy Committee

Ashley Vancil-Leap (Committee Chair)

Laura Boltz

Kenya Cistrunk

Stacy Haynes

Ashley Perry

MISSISSIPPI STATE
UNIVERSITY

Department of Geosciences
108 Hilburn Hall
355 Lee Blvd.
P.O. Box 5448
Mississippi State, MS 39762
Phone (662) 325-3915
FAX (662) 325-9423

November 29, 2022

Dear Curriculum Committee chair,

The Department of Geosciences Curriculum Committee reviewed the degree proposal for the Applied Sociology degree, specifically the use of our course GR 4303/6303 Principles of GIS. The committee fully supports this new program, and we are excited to collaborate with Sociology in this way. If you have any questions or need additional information, please let us know.

Respectfully,

Andrew Mercer — Digitally signed by Andrew Mercer Date: 2022.11.29 12:36:01 -06'00'

Andrew Mercer (Committee Chair)

Padmanava Dash — Digitally signed by Padmanava Dash Date: 2022.12.01 10:42:40 -06'00'

Padmanava Dash (Committee Member)

Christa R. Haney — Digitally signed by Christa R. Haney Date: 2022.12.01 10:59:24 -06'00'

Christa Haney (Committee Member)

Sarah Lalk — Digitally signed by Sarah Lalk DN: cn=Sarah Lalk, o, ou, email=spr67@msstate.edu, c=US Date: 2022.12.01 14:28:58 -06'00'

Sarah Lalk (Committee Member)

Brian S. Williams — Digitally signed by Brian S. Williams Date: 2022.11.29 13:04:39 -06'00'

Brian Williams (Committee Member)

Cc: Dr. John C. Rodgers, Department Head of Geosciences

Appendix 8: New Degree Program Proposal
(Submit Appendix 8 in PDF format with signatures)

Institution: **Date of Implementation:**	**Incremental, Six-Year Cost of Implementation:**	**Incremental, Six-Year Per Student Cost of Implementation:**
Fall 2023	**$690,000**	**$19,166**
Will it attract new students to the university? ☒ **Yes** ☐ **No**	**Potential Six-Year, New Revenue:** **$1,122,908**	**Potential New, Six-Year Revenue Per Student:** **$31,192**

Program Title as will Appear on Academic Program Inventory, Diploma, and Transcript:	**Six-Digit CIP Code:**
Applied Sociology	45.1101

Name of Degree(s) to be Awarded:	**Total Credit Hour Requirements to earn the degree:**
Bachelor of Science	124

List any institutions within the state offering similar programs:

No institutions within the state of Mississippi offers an online degree program in Applied Sociology

Responsible Academic Unit(s): Department of Sociology

Institutional Contact: Dr. Nicole Rader
Phone: 662-325-2495
Email: NRader@soc.msstate.edu

Check one of the boxes below related to SACSCOC Substantive Changes.

☒ **Proposed Program is Not a Substantive Change** ☐ **Proposed Program is a Substantive Change**

Number of Students Expected to Enroll in First Six Years:	
Year One	4-5
Year Two	4-5
Year Three	8-10
Year Four	8-10
Year Five	10-12
Year Six	10-12
Total	44-54

Number of Graduates Expected in First Six Years:	
Year One	0
Year Two	0
Year Three	0
Year Four	4-5
Year Five	4-5
Year Six	8-10
Total	16-20

Program Summary:

The B.S. in Applied Sociology offered by the Department of Sociology applies social scientific methods and research to address social problems in real-world experiences. The goal of the degree is to provide undergraduate students with a pathway to learn more about the skills and training that will be needed in such professions. Students must complete a total of 124 hours within the major. Eighteen of those hours include required courses, another 18 hours include elective hours and 3 hours are free electives.

This program of study is unlike any other program offered in the state of Mississippi. No other university or college in the state offers such a program, despite the evidence from the EAB Market Insights report showing that students are interested in such a program. In September 2021, the Department of Sociology at MSU had a "New Undergraduate Sociology Program Opportunities" report created by EAB Market Insights. After their analysis, the program with the strongest potential (4.14/5) for enrollment growth was an Applied Sociology program. They identified that such a program would have high projected employment growth (i.e., 19.89 perfect) and high average monthly growth in postings (i.e., 7.52 percent) for "Market Research Analysts and Marketing Specialists" and "Management Analysis" signal high need for relevant professionals. They also identified that it would be possible to adapt existing sociology courses focused on research methodology and statistical analysis to align with applied sociology. For these reasons, the Department of Sociology at MSU felt it was best to pursue an online degree program in Applied Sociology.

Additionally, Applied Sociology majors will be well prepared to enter many rewarding positions in the work force right out of college or further graduate training in law, business, community planning, architecture, medicine, politics, or academics. Opportunities for employment include, but are not restricted to entry-level positions in administration, advertising, banking, counseling (family planning, career, substance abuse, etc.), health services, journalism, group and recreation work, marketing and market research, sales, non-profit organizations, teaching, criminal justice, social services, and social research. In addition, applied sociology provides training that other liberal arts majors do not, such as the core elements of research methods and the training for research analyst positions in real-world settings.

The target audience for this program will include online/distant students around the state of Mississippi, the United States and beyond.

Chief Academic Officer Signature **Date**

Institutional Executive Officer Signature **Date**

Institution:

1. Describe how the degree program will be administered including the name and title of person(s) who will be responsible for curriculum development and ongoing program review.

The Applied Sociology program will be administered through the Department of Sociology, with the support of the Center for Distance Education. The Applied Sociology Coordinator will be Dr. Ashley Vancil-Leap, Assistant Clinical Professor in the Department of Sociology, who will be responsible for curriculum development and ongoing program review.

2. Describe the educational objectives of the degree program including the specific objectives of any concentrations, emphases, options, specializations, tracks, etc.

Students will be required to complete a minimum of 124 hours of course work. This includes the university/A&S core curriculum and the required Applied Sociology courses. Together, the program of study seeks to provide students a well-rounded curriculum that will help them develop an integrated understanding of applied sociology and equip them with the core knowledge and skills needed in applied careers.

The specific desired student learning outcomes are provided below. These outcomes are aligned with the College of Arts and Science learning objectives and reflect the knowledge and skills valued by applied sociology employers.

Critical Thinking and Problem Solving:

- Students will apply analytical, critical, and logical reasoning skills to generate solutions for complex problems in real-world settings.
- Students will analyze logistics and related processes to improve research methods and enhance decision making.
- Students will demonstrate an understanding of key concepts and methodologies and the ability to consider related decisions from a holistic perspective.

Data Analysis:

- Students will utilize applied sociology research techniques to analyze data, support decision making, and generate solutions for complex problems in real-world settings.

Communication:

- Students will demonstrate strong written and oral communication skills.

3. Describe any special admission requirements for the degree program including any articulation agreements that have been negotiated or planned.

All new freshmen desiring to major in Applied Sociology will be admitted into the Applied Sociology major in the College of Arts and Sciences at Mississippi State University. For all other students wishing to major in Applied Sociology, to be eligible for admission to the Applied Sociology program, students must have a cumulative GPA of 2.0 or above on all college work attempted prior to entering the major. The criteria for remaining in the program include:

1. Students must earn a minimum of a "C" in all Applied Sociology courses. Students earning a grade lower than C in an Applied Sociology course must retake that course.
2. Students must maintain an overall GPA of 2.0 or above. Students who fall below the overall GPA of 2.0 must bring it up to 2.0 the next semester or drop the Applied Sociology major.

4. Describe the professional accreditation that will be sought for this degree program. If a SACSCOC visit for substantive change will be necessary, please note.

There is no professional accreditation for this degree program and no SACSCOC visit for substantive change is necessary. The proposed major in Applied Sociology is an extension of the existing Sociology degree currently offered and does not meet the SACSCOC definition of a substantive change (e.g. the proposed program does not represent a change in the mission or objectives of the institution, the proposed program does not require the addition of a program as a new degree level, and the program does not represent a significant departure, either in content or method of delivery, from those offered within the institution was last evaluated).

PROPOSED New Degree

Degree: Bachelor of Science
Major: Applied Sociology
Concentration: N/A

The following degree program is offered: Bachelor of Science.

Applied Sociology is the scientific study of methods and research to address social problems in real-world experiences.

Applied Sociology majors are well prepared to enter many rewarding positions in the work force right out of college or further graduate training in law, business, community planning, architecture, medicine, politics, or academics. Opportunities for employment include, but are not restricted to entry-level positions in administration, advertising, banking, counseling (family planning, career, substance abuse, etc.), health services, journalism, group and recreation work, marketing and market research, sales, non-profit organizations, teaching, criminal justice, social services, and social research. In addition, applied sociology provides training that other liberal arts majors do not, such as the core elements of research methods and the training for research analyst positions in real-world settings.

To earn a Bachelor of Science degree with a major in applied sociology, a student is required to take 36 hours of applied sociology.

All new freshmen desiring to major in Applied Sociology will be admitted into the Applied Sociology major in the College of Arts and Sciences at Mississippi State University. For all other students wishing to major in Applied Sociology, to be eligible for admission to the Applied Sociology program, students must have a cumulative GPA of 2.0 or above on all college work attempted prior to entering the major. The criteria for remaining in the program include:

1. Students must earn a minimum of a "C" in all Applied Sociology courses. Students earning a grade lower than C in an Applied Sociology course must retake that course.
2. Students must maintain an overall GPA of 2.0 or above. Students who fall below the overall GPA of 2.0 must bring it up to 2.0 the next semester or drop the Applied Sociology major.

Applied Sociology Major Course Requirements

Required courses include: ASO 1003 Introduction to Applied Sociology, SO 1103 Contemporary Social Problems, SO 3003 Social Inequality, SO 3053 Organizations in Modern Society, ASO 3213 Applied Sociology Research Methods, and ASO 4803 Applied Sociology Capstone Course.

Students are also required to choose two from the follow three categories of the following courses:
Social Problems in Society: Choose 2 courses
SO 3703 Racial and Ethnic Inequality
SO 4273 Sociology of Education
SO 4423 Health and Society
SO 4703 Population Problems and Processes
CRM 3103 Contemporary Issues in Criminal Justice

Community, Policy, and Practice: Choose 2 courses
SO 4123 Poverty Analysis
ASO 4153 Internship in Applied Sociology
SO 4503 Gender and Work
SO 4733 Community: Organization and Relationships
CRM 3113 Community Crime Prevention and Policy

Applied Sociological Methods: Choose 2 courses
ASO 3103 Program Evaluation
ASO 3203 Survey Design and Evaluation
ASO 4103 Applied Data Management
ASO 4203 Focus Groups and Interviewing
GR 4303 Principles of GIS

Finally, students must select one free elective from any SO, ASO, SW or CRM course, including any of those not listed above.

Students who wish to major in the department should plan their programs with the departmental major advisor as soon as possible after entering the University and should consult with their advisor before each registration period. The program is arranged individually to combine the most varied advantages consistent with the student's interest and purposes.

Proposed Curriculum Outline	Required Hours
English Composition:	
EN 1103 English Composition I	3
EN 1113 English Composition II	3
Foreign Language:	
Foreign Language I	3
Foreign Language II	3
Foreign Language III	3
Humanities:	
Literature– A&S core	3
History– A&S core	3
Philosophy– A&S core	3
Humanities Elective [1]	9
Mathematics:	
MA 1313 College Algebra	3
MA/ST 2113 Introduction to Statistics	3
Fine Arts:	
A&S core	3
Natural Sciences:	
Physical Science w/ lab– A&S core	3-4
Life Science w/ lab– A&S core	3-4
Natural Science Elective– A&S core	3-4
Social Sciences:	
Social Science– A&S core	6
Social Science Electives [2]	12
Major Core:	
ASO 1003 Introduction to Applied Sociology	3
SO 1103 Contemporary Social Problems	3
SO 3003 Social Inequality	3
SO 3053 Organizations in Modern Society	3
ASO 3213 Applied Sociology Research Methods	3
ASO 4803 Applied Sociology Capstone Course	3
Electives	
Social Problems in Society: Choose 2 of the following:	6
SO 3703 Racial and Ethnic Inequality	
SO 4273 Sociology of Education	
SO 4423 Health and Society	
SO 4703 Population Problems and Processes	
CRM 3103 Contemporary Issues in Criminal Justice	
Community, Policy, and Practice: Choose 2 of the following:	6
SO 4123 Poverty Analysis	
ASO 4153 Internship in Applied Sociology	
SO 4503 Gender and Work	
SO 4733 Community: Organization and Relationships	
CRM 3113 Community Crime Prevention and Policy	
Applied Sociological Methods: Choose 2 of the following:	6
ASO 3103 Program Evaluation	
ASO 3203 Survey Design and Evaluation	
ASO 4103 Applied Data Management	
ASO 4203 Focus Groups and Interviewing	
GR 4303 Principles of GIS	
Free Elective: Choose 1 course	
Student may choose any SO, ASO, SW, or CRM course.	3
Oral Communication:	
CO 1003 Fundamentals of Public Speaking	3
or CO 1013 Introduction to Communication	
Jr/Sr Writing:	
Satisfied with ASO 4803 in the major	

General Electives: Consult advisor	10-13
Total Hours	124
Note: Students must complete 31 upper division hours in A&S at MSU. [1] Humanities electives must be courses in A&S and must cover two disciplines. [2] Social Science electives must be courses in A&S. The total 18 hours in Social Science must cover four disciplines; maximum of 6 hours per discipline; only one EC and one CO from A&S core list allowed across the 18 hours.	

5. Describe the faculty who will deliver this degree program including the members' names, ranks, disciplines, current workloads, and specific courses they will teach within the program. If it will be necessary to add faculty in order to begin the program, give the desired qualifications of the persons to be added.

Because the proposed major builds upon the existing curriculum, the required courses and available electives will continue to be delivered primarily by existing faculty from the Department of Sociology. The required Applied Sociology course will be taught by:

1. Dr. Ashley Vancil-Leap, Assistant Clinical Professor, Department of Sociology, 4:4 workload
    - Specific Courses: ASO 1003 Introduction to Applied Sociology; SO 1103 Contemporary Social Problems; SO 3003 Social Inequality; ASO 3213 Applied Sociology Research Methods; ASO 4803 Applied Sociology Capstone; SO 3703 Racial and Ethnic Inequality; ASO 4153 Internship in Applied Sociology; SO 4503 Gender and Work
2. Dr. Margaret Ralston, Associate Professor, Department of Sociology, 2:2 workload
    - Specific Courses: SO 4703 Population Problems and Processes; ASO 4103 Applied Data Management
3. Dr. Dustin Brown, Assistant Professor. Department of Sociology, 2:2 workload
    - Specific Courses: SO 4423 Health and Society
4. Dr. Diego Thompson, Assistant Professor, Department of Sociology, 2:2 workload
    - Specific Courses: SO 4733 Community: Organization and Relationships
5. Dr. Braden Leap, Associate Professor, Department of Sociology, 2:2 workload
    - Specific Courses: ASO 3213 Applied Sociology Research Methods; ASO 3203 Survey Design and Evaluation; ASO 4203 Focus Groups and Interviewing
6. New Faculty– We will also hire new faculty with expertise in areas of Applied Sociology to deliver courses we cannot fill with the current faculty within the Department of Sociology.

6. Describe the library holdings relevant to the proposed program, noting strengths and weaknesses. If there are guidelines for the discipline, do current holdings meet or exceed standards?

   Students will have access to the current online MSU library system. Through EBSCO and JSTOR, MSU offers access to the leading academic journal in the field of Applied Sociology, entitled the *Journal of Applied Sociology*. Through Google Scholar, MSU offers access to the leading international journal entitled the *International Journal of Applied Sociology*.

7. Describe the procedures for evaluation of the program and its effectiveness in the first six years of the program, including admission and retention rates, program outcome assessments, placement of graduates, changes in job market need/demand, ex-student/graduate surveys, or other procedures.

Multiple methods will be used to evaluate student learning and program effectiveness:

- Student learning will be assessed through course assessments (exams, quizzes, homework, and projects).
- The Office of Institutional Effectiveness at MSU conducts exit surveys of graduates and tracks admission, retention, graduation, and graduate placement rates that will be used to evaluate the program's effectiveness.
- The College of Arts and Science utilizes a variety of measures to assess student learning that will also be used to help evaluate the program's effectiveness.
- The Center for Distance Education utilizes a variety of measures to assess student learning that will also be used to help evaluate the program's effectiveness.
- Surveys and active engagement with employers and recent graduates will be used to monitor needs and assess (and if needed) adjust program content.

8. What is the specific basis for determining the number of graduates expected in the first six years?

We expect to incrementally enroll students in the applied sociology degree program over a six-year time frame. Since it takes students approximately four years to complete a degree program, we have graduates only in the fourth, fifth, and sixth years. These numbers are slightly greater than our face-to-face sociology program. Due to the distance nature of this program, we may have students who enroll outside of the state which would slightly elevate our applied sociology distance student graduates.

10. Using expected enrollment, provide the total anticipated budget for the program including implementation and 5 subsequent years (total of 6 years) of operation; any anticipated direct, indirect, and incremental costs necessary to start the program; anticipated,

incremental annual revenue based on student enrollment; and other sources of funding.

Year	Incoming Students	Total Enrollment	Start-Up Costs	*A* Additional Annual Costs	*B* Additional Annual Revenue	*C* Non-Tuition Revenue	*A – (B + C)* Differential
2023-2024	4-5	4-5	$45,000	$115,000	$39,408	0	-$75,592
2024-2025	4-5	8-10		$115,000	$78,800	0	-$36,200
2025-2026	8-10	16-20		$115,000	$157,600	0	$42,600
2026-2027	8-10	20-25		$115,000	$197,000	0	$82,000
2027-2028	10-12	30-37		$115,000	$295,500	0	$180,500
2028-2029	10-12	36-44		$115,000	$354,600	0	$239,600
TOTAL			$45,000	$690,000	1,122,908		$432,908

Please explain what has been included in the costs and revenues.

Start-Up Costs: one-time costs associated with offering this program

Direct, Incremental Costs: additional annual costs to the university as a result of offering this program

Incremental Revenue: additional annual revenue assuming that this program will bring in new students paying full tuition

Non-Tuition Revenue: external funds, grants, contracts or other revenues attributable to the addition of this program

Differential: all revenues minus all costs

11. Program Demand: Select one or both of the following to address student demand:

A. Survey of Student Interest

B. Market Analysis or Evidence of Labor Market Need

In September 2021, the Department of Sociology at MSU had a "New Undergraduate Sociology Program Opportunities" report created by EAB Market Insights. After their analysis, the program with the strongest potential (4.14/5) for enrollment growth was an Applied Sociology program. They identified that such a program would have high projected employment growth (i.e., 19.89 perfect) and high average monthly growth in postings (i.e., 7.52 percent) for "Market Research Analysis and Marketing Specialists" and "Management Analysis" signal high need for relevant professionals. They also identified that it would be possible to adapt existing sociology courses focused on research methodology and statistical analysis to align with applied sociology. For these reasons, the Department of Sociology at MSU felt it was best to pursue an online degree program in Applied Sociology.

12. Employment Opportunities for Graduates (state, region, nation):

Students completing the Bachelor of Science in Applied Sociology will be equipped with the knowledge and skills required for a sociological career in a real-world setting. According to a longitudinal study published in 2008 by the American Sociological Association, employment opportunities for gradients in Applied Sociology at the state, regional and national level include:

a. Social Services and Counseling in not-for-profits, such as supporting abuse survivors, working in child services, advocating in youth justice providing services to disadvantaged families, and assisting victims of disasters.
b. Social scientists and researchers, which management of research methods, computer applications, and statistics.
c. Management Consultant, which analyze business issues, research possible remedies or enhancements, and present solutions to clients.
d. Market Research Analyst, which tests products and services and evaluates the effectiveness for marketing campaigns.
e. Policy Analyst, which researches issues that affect the public and recommends legislation to address these problems.
f. Survey Researcher/Pollster, which measures attitudes and opines in areas familiar to the applied sociology major, like social and political issues, health, culture, and consumer products.

Course Catalogue Descriptions:

Required Courses – 18 hours

ASO 1003 Introduction to Applied Sociology -- 3 hours

Three hours lecture. The use of sociological theory, methods, skills, and research to resolve issues and problems in real-world settings. How to put sociology into practice.

SO 1103 Contemporary Social Problems

Three hours lecture. Analysis of problems related to: life cycle, sexuality, family disruptions, health, illness, death and dying, addictions, crime, minorities, population, environment, resources and poverty. Suggested solutions.

SO 3003 Social Inequality – 3 hours

(Prerequisite: SO 1003). Three hours lecture. Investigates the nature, causes, and consequences of social inequality and stratification, the relationships among class, race, and gender inequalities in cross-cultural perspective.

SO 3053 Organizations in Modern Society – 3 hours

(Prerequisite: SO 1003). Three hours lecture. Examines the nature and types of formal organizations, their impact on, and outcomes for, individuals and society; organizational structures, processes, environments and effectiveness.

ASO 3213 Applied Sociology Research Methods – 3 hours

(Prerequisite: ASO 1003). Three hours lecture. A survey of the field of applied research and methodology, including an examination of the various types of applied research designs, techniques, and procedures.

ASO 4803 Applied Sociology Capstone – 3 hours

(Prerequisite: Senior standing or consent of instructor). Three hours lecture. A capstone course to expand students' opportunities and options beyond graduation. Analyzes contemporary debates and topics within applied sociology; explores employment and careers, reflection and assessment of learning in the major.

Elective hours – 18 hours

Social Problems in Society: Choose 2 courses (6 hours)

SO 3703 Racial and Ethnic Inequality

(Prerequisite: SO/AN/AAS 2203, or permission of the instructor.) Three hours seminar. Review of the current literature on racial and ethnic inequality in the United States. This class focuses on contemporary topics on racial and ethnic inequality. Course can be taken three times for credit.

SO 4273 Sociology of Education

(Prerequisites: SO 1003 and junior standing). Three hours lecture. A sociological analysis of education as a social institution, its role in the larger society, the organization of schooling, and the social dynamics of classrooms.

SO 4423 Health and Society

(Prerequisite: 3 hours in sociology or consent of instructor). Three hours lecture. Examines health and the health care structure of the United States as it relates to our culture, norms and social institutions.

SO 4703 Population Problems and Processes

(Prerequisite: SO 1003 or consent of the instructor). Three hours lecture. World population growth and its consequences, population change and national policies, family planning, recent U.S. population trends, basic demographic measurement, the demographic report.

CRM 3103 Contemporary Issues in Criminal Justice

(Prerequisites: CRM 1003 and SO 1003). Three hours lecture. The interrelationships of law enforcement, prosecution, and the courts, particularly how each affects the correctional process.

Community, Policy, and Practice: Choose 2 courses (6 hours)

SO 4123 Poverty Analysis

(Prerequisites: SO 1003 and junior standing). Three hours lecture. Historical perspectives; problems of definition and measurement; socio-cultural situations contributing to deprivation; delineation of poverty groups; social consequences of poverty; poverty programs and organizations.

ASO 4153 Internship in Applied Sociology

(Prerequisite: Sophomore standing or consent of instructor). Three hours practicum. A supervised work experience of 150 hours within a selected community organization or agency; individually supervised performance and self-development in a real-world setting related to applied sociology.

SO 4503 Gender and Work

Three hours lectures. This course presents research and theories on the role of gender in shaping labor market opportunities, experiences, and rewards; remedies for enduring problems, including those applied in the United States' workplace and abroad; and new research directions. (Same as GS 4503/6503 Gender and Work).

SO 4733 Community: Organization and Relationships

(Prerequisites: SO 1003 and junior standing). Three hours lecture. Rural-urban approach to community; types of local societies and community organizations; perspectives in community study.

CRM 3113 Community Crime Prevention and Policy

(Prerequisites: SO 1003 and CRM 1003 or consent of instructor). Three hours lecture. An in-depth analysis of crime control policy and community sanctions, focusing on policy implementation, effectiveness, alternatives and prevention efforts.

Applied Sociological Methods: Choose 2 courses (6 hours)

ASO 3103 Program Evaluation

(Prerequisite: ASO 1003). Three hours lecture. Program evaluation theory, methods, and practices with a focus on the practical craft of evaluation research; strategic issues of program evaluation; application of various research methods to program evaluation in community-based contexts.

ASO 3203 Survey Design and Evaluation

(Prerequisite: ASO 1003). Three hours lecture. Review and evaluation of survey design and their uses; emphasis on survey construction, implementation, and analytical techniques.

ASO 4103 Applied Data Management

(Prerequisite: ASO 1003). Three hours lecture. An introduction in how to manage social scientific data using real data to apply analytical tools.

ASO 4203 Focus Groups and Interviewing

(Prerequisite: ASO 1003). Three hours lecture. An introduction to the qualitative research methods of focus groups and interviewing.

GR 4303 Principles of GIS

Two hours lecture and two hours laboratory. Spatial analysis and topological relationships of geographic data using Geographic Information Systems, with emphasis on GIS theory.

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: Arts & Sciences **Department: n/a**

Contact Person: Melanie Loehwing **Mail Stop: 9706**
E-mail: mloehwing@deanas.msstate.edu

Nature of Change: degree modification
Date Initiated: February 3, 2023 **Effective Date: Fall 2023**

Current Degree Program Name: Bachelor of Science in Interdisciplinary Studies

Major: Interdisciplinary Studies **Concentration: n/a**

New Degree Program Name: Bachelor of Science in Interdisciplinary Studies

Major: Interdisciplinary Studies **Concentration: n/a**

Summary of Proposed Changes:

-Add introductory course (IDS 2111 Introduction to Interdisciplinary Studies) as a degree requirement.
-Format catalog description to be consistent with other undergraduate degrees and align with new general education math requirement.

Approved:	Date:
Department Head	2/3/23
Director of Academic Quality	2/9/23
Chair, College or School Curriculum Committee	3/1/23
Dean of College or School	3/1/23
Chair, University Committee on Courses and Curricula	4/19/23
Chair, Graduate Council(if applicable)	
Chair, Deans Council	May 2nd 2023

DEGREE MODIFICATION OUTLINE FORM

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Interdisciplinary Studies	Degree: Bachelor of Science Major: Interdisciplinary Studies
The Bachelor of Science in Interdisciplinary Studies is a university-wide degree coordinated through the College of Arts & Sciences by the Interdisciplinary Studies Committee. This multi-discipline academic program is appropriate for students motivated by specific interests not recognized in traditional majors and is not intended to compete with existing programs. All University requirements, including 31 hours of upper division course work and a year's residence, must be met for graduation. The Bachelor of Science in Interdisciplinary Studies is intended to allow students maximum flexibility to custom-design a curriculum to meet their personal and career goals. Such a program of study must assure depth of study as well as breadth. Therefore, it must *insure* that students take at least 36 upper-division hours in the areas they have chosen for emphasis and that they select a minimum of 12 hours in each of three areas or 18 hours in two. Emphasis areas must be selected from at least two colleges. Only one grade of "D" will be accepted in each area of emphasis, and a minimum GPA of 2.0 is required in each area of emphasis. *General Education requirement (45 hours) must be met in addition to a general studies core of 12 hours.* A total of *122* semester hours is required for graduation, along with an MSU and cumulative GPA of 2.0. To *insure* coherence in the program, the student must construct and explain in writing the rationale for the interdisciplinary studies program's direct relationship to the student's personal and career goals. Each student will be required to meet with advisors in the academic disciplines who will agree to sponsor the student in drawing up the proposed curriculum, formulating the rationale, and presenting the case in writing to the Interdisciplinary Studies Committee. This should be done prior to the senior year. BSIS Limitations: Students may *not* receive minors in the BSIS program. *After a BSIS degree is awarded, a student may not return to school and receive a second bachelor's degree in an area of emphasis used in BSIS.* A student may *not* receive a BSIS degree *if he/she already has a bachelor's degree.* The Interdisciplinary Studies Committee will review applications, and if approved, the student may proceed with the curriculum. The Committee will meet during	The Bachelor of Science in Interdisciplinary Studies is a university-wide degree coordinated through the College of Arts & Sciences by the Interdisciplinary Studies Committee. This multi-discipline academic program is appropriate for students motivated by specific interests not recognized in traditional majors and is not intended to compete with existing programs. All University requirements, including 31 hours of upper division course work and a year's residence, must be met for graduation. The Bachelor of Science in Interdisciplinary Studies is intended to allow students maximum flexibility to custom-design a curriculum to meet their personal and career goals. Such a program of study must assure depth of study as well as breadth. Therefore, it must **ensure** that students take at least 36 upper-division hours in the areas they have chosen for emphasis and that they select a minimum of 12 hours in each of three areas or 18 hours in two. Emphasis areas must be selected from at least two colleges. Only one grade of "D" will be accepted in each area of emphasis, and a minimum GPA of 2.0 is required in each area of emphasis. A total of **120** semester hours is required for graduation, along with an MSU and cumulative GPA of 2.0. To **ensure** coherence in the program, the student must construct and explain in writing the rationale for the interdisciplinary studies program's direct relationship to the student's personal and career goals. Each student will be required to meet with advisors in the academic disciplines who will agree to sponsor the student in drawing up the proposed curriculum, formulating the rationale, and presenting the case in writing to the Interdisciplinary Studies Committee. This should be done prior to the senior year. BSIS Limitations: Students may **only** receive minors in the BSIS program **in subjects outside their emphasis areas**. A student may **only** receive a BSIS degree **as a second bachelor's degree with special permission by the Interdisciplinary Studies Committee.** The Interdisciplinary Studies Committee will review applications, and if approved, the student may proceed with the curriculum. The Committee will meet during the fall, spring and summer semesters, and students must make written application by September 1, February 1 or May 1. Application for a degree must be submitted to the Office of the Registrar. For further information, contact:

the fall, spring and summer semesters, and students must make written application by September 1, February 1 or May 1. Application for a degree must be submitted to the Office of the Registrar. For further information, contact: College of Arts & Sciences *224 Allen Hall*, Mail Stop 9706 Mississippi State, MS 39762 (662) 325-2646		College of Arts & Sciences **513 Allen Hall**, Mail Stop 9706 Mississippi State, MS 39762 (662) 325-2646	
CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English Composition: EN 1103 English Composition I or *EN 1163 Accelerated Composition I* EN 1113 English Composition II or EN 1173 Accelerated Composition II	3 3	English Composition: EN 1103 English Composition I or **EN 1104 Expanded English Composition I** EN 1113 English Composition II or EN 1173 Accelerated Composition II	3 3
Humanities: *See* General Education courses	6	Humanities: General Education courses	6
Mathematics: *See* General Education courses	*6*	Mathematics: General Education courses	**3**
Fine Arts: *See* General Education courses	3	Fine Arts: General Education courses	3
Natural Sciences: *See General Education courses. Two labs required.*	6-8	Natural Sciences: **General Education courses; two labs required.**	6-8
Math/Science Elective: *See General Education courses. Lab not required.*	*3*		
Social Sciences: *See* General Education courses	6	Social Sciences: General Education courses	6
Major Core: *General Studies* – consult advisor IDS 4111 Professional Seminar Emphasis Area – consult advisor *Free Electives*	 12 1 36 *29*	Major Core: **Pre-Emphasis Area courses** – consult advisor **IDS 2111 Intro to Interdisciplinary Studies** IDS 4111 Professional Seminar Emphasis Area – consult advisor	 12 **1** 1 36
Oral Communication *Requirement:* CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3	Oral Communication: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3
Writing Requirement:		**Jr/Sr Writing:**	

Consult advisor	3	Consult advisor	3
Computer Literacy: *Consult advisor*	*3*		
		General Electives: **Consult advisor**	**32-34**
		Total Hours	**120**

Justification

The Bachelor of Science in Interdisciplinary Studies (BSIS) degree is unique in that it consists of customizable combinations of different disciplinary emphasis areas. Students may select any two or three subjects offered as emphasis areas, so long as they cross at least two colleges on campus and entail a minimum of 12 hours of upper-division coursework. As such, there are dozens of different combinations of emphasis areas that BSIS students could potentially pursue. The only coursework in common they are guaranteed to have in the major comes at the very end of the curriculum: IDS 4111 Professional Seminar.

Having only one course in common for BSIS students means that they often do not develop a shared sense of what it means to major in Interdisciplinary Studies, and they do not have an orientation to the major early in their coursework. Tracking their progress in the major is very difficult and means that assessments of student outcomes are limited to the work they produce at the end of their degree in IDS 4111.

In order to improve students' understanding of what it means to pursue an interdisciplinary degree, and to better assess their development and performance in the major, we would like to add an introductory course that can act as a complement to the senior seminar. The revised degree would require students to begin their major with IDS 2111 Introduction to Interdisciplinary Studies (a new course that we have proposed in conjunction with this degree modification). Since students have a substantial number of general elective hours in the major, we do not anticipate any difficulty in adding this one-credit course requirement at the beginning of the curriculum. IDS 2111 will provide BSIS students with the introduction they need to sustain an interdisciplinary approach to research and problem-solving as they advance in their selected emphasis areas.

The other minor edits to the catalog description and degree requirements above are proposed to make the BSIS degree description consistent with others in the catalog and to align it with the new general education math requirement of 3 hours instead of 6.

Effective Date

Fall 2023

Four-Letter Abbreviation

BSIS

Letter of Support

See attached.

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF ARTS & SCIENCES
Office of the Dean

P.O. Box AS
Mississippi State, MS 39762

P. 662.325.2646
F. 662.325.8740

www.cas.msstate.edu

February 2, 2023

Dear Dr. Perkins and members of the UCCC,

I support the proposal to modify the Bachelor of Science in Interdisciplinary Studies (BSIS) curriculum. We are proposing only minor changes to the catalog description, which will clean up inconsistencies in the formatting and correct the general education requirements to align with the university's Fall 2023 changes in math. Additionally, we are adding a new course, IDS 2111 Introduction to Interdisciplinary Studies, to the curriculum as a degree requirement. These changes improve the clarity of degree requirements in the catalog, and provide a more substantial preparation in Interdisciplinary Studies for students choosing the major.

For these reasons, the College of Arts & Sciences and BSIS program support the BSIS degree modification proposal.

Sincerely,

Kasondra Harris

Kasondra Harris
BSIS Coordinator
College of Arts & 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: Arts & Sciences **Department:** Academic Affairs

Contact Person: Kasondra Harris **Mail Stop:** 9706 **E-mail:** kharris@deanas.msstate.edu
Nature of Change: New Concentration **Date Initiated:** 02/09/2023 **Effective Date:** Fall 2023
Current Degree Program Name:

Major: Interdisciplinary Studies **Concentration:**

New Degree Program Name:

Major: Interdisciplinary Studies **Concentration:** Entertainment Technology

Summary of Proposed Changes: College of Arts and Sciences, Academic Affairs requests that a new concentration be offered in Entertainment Technology. This concentration will train students to design the systems necessary for large events and venue use. Students will become specialized practitioners in entertainment technology by learning the technology associated with large scale production companies.

Department Head	2/10/23
Director of Academic Quality	3/1/23
Chair, College or School Curriculum Committee	3/1/23
Dean of College or School	3/1/23
Chair, University Committee on Courses and Curricula	4/19/23
Chair, Graduate Council(if applicable)	
Chair, Deans Council	May 2nd 2023

1. Catalog Description

The catalog description will only be edited to include a description of the proposed new concentration. See curriculum outline below.

2. Proposed Curriculum Outline

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Interdisciplinary Studies	Degree: Bachelor of Science Major: Interdisciplinary Studies Concentration: Entertainment Technology
The Bachelor of Science in Interdisciplinary Studies is a university-wide degree coordinated through the College of Arts & Sciences by the Interdisciplinary Studies Committee. This multi-discipline academic program is appropriate for students motivated by specific interests not recognized in traditional majors and is not intended to compete with existing programs. All University requirements, including 31 hours of upper division course work and a year's residence, must be met for graduation. The Bachelor of Science in Interdisciplinary Studies is intended to allow students maximum flexibility to custom-design a curriculum to meet their personal and career goals. Such a program of study must assure depth of study as well as breadth. Therefore, it must ensure that students take at least 36 upper-division hours in the areas they have chosen for emphasis and that they select a minimum of 12 hours in each of three areas or 18 hours in two. Emphasis areas must be selected from at least two colleges. Only one grade of "D" will be accepted in each area of emphasis, and a minimum GPA of 2.0 is required in each area of emphasis. A total of 120 semester hours is required for graduation, along with an MSU and cumulative GPA of 2.0. To ensure coherence in the program, the student must construct and explain in writing the rationale for the interdisciplinary studies program's direct relationship to the student's personal and career goals. Each student will be required to meet with advisors in the academic disciplines who will agree to sponsor the student in drawing up the proposed curriculum, formulating the rationale, and presenting the case in writing to the Interdisciplinary Studies Committee. This should be done prior to the senior year. BSIS Limitations: Students may only receive minors in the BSIS program in subjects outside their emphasis areas. A student may only receive a BSIS degree as a second bachelor's degree with special permission by the Interdisciplinary Studies Committee.	The Bachelor of Science in Interdisciplinary Studies is a university-wide degree coordinated through the College of Arts & Sciences by the Interdisciplinary Studies Committee. This multi-discipline academic program is appropriate for students motivated by specific interests not recognized in traditional majors and is not intended to compete with existing programs. All University requirements, including 31 hours of upper division course work and a year's residence, must be met for graduation. The Bachelor of Science in Interdisciplinary Studies is intended to allow students maximum flexibility to custom-design a curriculum to meet their personal and career goals. Such a program of study must assure depth of study as well as breadth. Therefore, it must ensure that students take at least 36 upper-division hours in the areas they have chosen for emphasis and that they select a minimum of 12 hours in each of three areas or 18 hours in two. Emphasis areas must be selected from at least two colleges. Only one grade of "D" will be accepted in each area of emphasis, and a minimum GPA of 2.0 is required in each area of emphasis. A total of 120 semester hours is required for graduation, along with an MSU and cumulative GPA of 2.0. To ensure coherence in the program, the student must construct and explain in writing the rationale for the interdisciplinary studies program's direct relationship to the student's personal and career goals. Each student will be required to meet with advisors in the academic disciplines who will agree to sponsor the student in drawing up the proposed curriculum, formulating the rationale, and presenting the case in writing to the Interdisciplinary Studies Committee. This should be done prior to the senior year. BSIS Limitations: Students may only receive minors in the BSIS program in subjects outside their emphasis areas. A student may only receive a BSIS degree as a second bachelor's degree with special permission by the Interdisciplinary Studies Committee. The Interdisciplinary Studies Committee will review

The Interdisciplinary Studies Committee will review applications, and if approved, the student may proceed with the curriculum. The Committee will meet during the fall, spring and summer semesters, and students must make written application by September 1, February 1 or May 1. Application for a degree must be submitted to the Office of the Registrar. For further information, contact: College of Arts & Sciences 513 Allen Hall, Mail Stop 9706 Mississippi State, MS 39762 (662) 325-2646	applications, and if approved, the student may proceed with the curriculum. The Committee will meet during the fall, spring and summer semesters, and students must make written application by September 1, February 1 or May 1. Application for a degree must be submitted to the Office of the Registrar. For further information, contact: College of Arts & Sciences 513 Allen Hall, Mail Stop 9706 Mississippi State, MS 39762 (662) 325-2646 **Entertainment Technology Concentration** **Entertainment Technology trains students to use technology to advance artistic goals in jobs like stage robotics, scenic automation, entertainment production, sound engineering, technical direction and lighting for live theatre, concerts, theme parks, sporting events, etc. Entertainment technologists can design, create, and operate the systems necessary to achieve a variety of artistic outcomes. A concentration in Entertainment Technology will prepare students to work with large scale production companies in spaces such as theme parks, arenas, performance venues, and museums.**

CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English Composition: EN 1103 English Composition I or EN 1104 Expanded English Composition I	3	English Composition: EN 1103 English Composition I or EN 1104 Expanded English Composition I	3
EN 1113 English Composition II or EN 1173 Accelerated Composition II	3	EN 1113 English Composition II or EN 1173 Accelerated Composition II	3
Humanities: General Education courses	6	Humanities: General Education courses	6
Mathematics: General Education courses	3	Mathematics: General Education courses	3
Fine Arts: General Education courses	3	Fine Arts: General Education courses [1]	3
Natural Sciences: General Education courses; two labs required.	6-8	Natural Sciences: General Education courses; two labs required.	6-8
Social Sciences: General Education courses	6	Social Sciences: General Education courses [2]	6

Major Core: Pre-Emphasis Area courses – consult advisor IDS 2111 Intro to Interdisciplinary Studies IDS 4111 Professional Seminar Emphasis Area – consult advisor	12 1 1 36	Major Core: Pre-Emphasis Area courses – consult advisor[3] IDS 2111 Intro to Interdisciplinary Studies IDS 4111 Professional Seminar Emphasis Areas – consult advisor[3]	12-15 1 1 36-37
Oral Communication *Requirement:* CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3	Oral Communication: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3
Jr/Sr Writing: Consult advisor	3	Jr/Sr Writing: Consult advisor	3
General Electives: Consult advisor	*32*-34	General Electives: Consult advisor	**28**-34
Total Hours	120	Total Hours	120
		[1] CO 1503 required for Entertainment Technology concentration. **[2] EC 2113 required for Entertainment Technology concentration.** **[3] Concentrations require specific courses; see concentration and consult advisor.**	
		Entertainment Technology Concentration **Pre-Emphasis Area Courses** **MU 1113 History & Appreciation of Music** **CO 2512 Introduction to Theatrical Design** **CO 2523 Introduction to Stagecraft** **CO 2551 Sound for the Stage** **INDT 2323 Welding Technology** **Choose one:** **INDT 2113 Introduction to PLC Programming** **INDT 2123 Introduction to CNC Programming** **INDT 2343 Parametric Modeling for 3D Design** **INDT 2613 Industrial Fluid Power** **Emphasis Area – Communication** **CO 3512 Scenic Design** **CO 3522 Lighting for the Stage** **CO 3552 Professional Practice for Theater** **CO 3573 Script Analysis** **CO 3583 Theatre for Young Audiences** **CO 3693 Drawing for the Theatre** **CO 4563 Stage and Production Mgt** **CO 4591 Theatre Capstone**	

		Emphasis Area – Industrial Technology **INDT 3043 Industrial Safety** **INDT 3373 Forecasting and Cost Modeling** **INDT 3813 Technical Writing and Presentation for Industry** **Choose three:** **INDT 3073 Industrial Human Relations** **INDT 3103 Advanced Industrial Electricity and Electronics** **INDT 3223 Industrial Materials** **INDT 4103 Industrial Control Systems** **INDT 4203 Automated Systems** **INDT 4233 Maintenance Management** **INDT 4303 Industrial Robotics** **INDT 4403 Automated Systems II**	

3. Justification

Technology has revolutionized society and the performing arts are no exception. It is not unusual to attend a live concert, play, church service, or other performance that includes 3d mapped projections, robotic lighting, motor driven rigging or other emerging technology. Large entertainment entities continue to push this technology forward into more complicated and exciting forms that constantly need people with an understanding of how it operates in order to use it and continue developing its evolution.

As live entertainment becomes more and more technologically driven, there is a growing need for specialized practitioners who can bridge the gap between the artistic goals of the performance and the technological and safety requirements. This concentration allows students to develop the skills needed to design the systems necessary and run the complex processes large events and venues use.

We are in a unique position in that we have experts in theatre and industrial technology, the two disciplines most well-equipped to teach these skills, on campus and excited to engage with this concentration. We would be the first Mississippi university to hold a concentration in entertainment technology, and we would be able to compete with some institutions in Alabama.

4. Effective Date

Fall 2023

5. Four-Letter Abbreviation

BSIS

6. Letter of Support

See attached.

MISSISSIPPI STATE UNIVERSITY

College of Arts & Sciences
Department of Communication
P.O. Box PF
216 President's Circle
Mississippi State, MS 39762
P. 662.325.3320
F. 662.325.3210
www.comm.msstate.edu

Date: November 18, 2022

Dear University Committee on Courses and Curricula:

I am writing in support of the creation of the Entertainment Technology track in the Bachelor of Science in Interdisciplinary Studies degree program through the College of Arts and Sciences. The Departments of Communication and Industrial Technology are excited about the opportunities this program creates for students and look forward to working together.

The revised theatre curriculum that forms the basis of our department's contribution to the proposed curriculum is in the final stages of approval and is slated to launch in the fall semester of 2023. This will allow us to accept incoming students to the new program starting this fall.

The faculty of the necessary courses are in support of the new program and are ready to work with colleagues from Industrial Technology to facilitate a meaningful and effective educational program for students.

Sincerely,

Terry Likes

Dr. Terry Likes
Professor and Head
Department of Communication
tlikes@comm.msstate.edu

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF EDUCATION
Department of Instructional Systems
and Workforce Development
P.O. Box 9730
108 Herbert Street
100 Industrial Education Building
Mississippi State, MS 39762
P. 662.325.2281
F. 662.325.7599
iswd.msstate.edu

November 30, 2022

Dear University Committee on Courses and Curricula:

I am writing in support of the creation of the Entertainment Technology track in the Bachelor of Science in Interdisciplinary Studies degree program through the College of Arts and Sciences. The Industrial Technology program in conjunction with the Department of Communication are enthusiastic about the possibilities afforded by a degree of this nature.

The Industrial Technology curriculum that would be included into this degree are in place and available for future semesters. This, along with the faculty support required, are able to handle the change and any additional students and are eager to collaborate with the faculty from the Department of Communication.

If you have any additional questions, please feel free contact me at the information below.

Respectfully,

Dr. Marty Bray
Department Head
Instructional Systems and Workforce Development
mbray@colled.msstate.edu

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

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College: Arts and Sciences **Department:** Classical and Modern Lang. and Lit.

Contact Person: Scott J. DiGiulio **Mail Stop:** 9517 **E-mail:** sdigiulio@cmll.msstate.edu

Nature of Change: Revision of Minor Options related to Classics Program

Date Initiated: 1 March 2022 **Effective Date:** 16 August 2023

Current Degree Program Name: Minor in Foreign Languages

Major: Foreign Languages **Concentration:** Classics

New Degree Program Name: Minor in Foreign Languages

Major: Foreign Languages **Concentration:** Classics

Summary of Proposed Changes: I propose restructuring the existing minor in Classics by providing two separate tracks to complete a minor, with slightly different requirements (which are nevertheless in line with Classics programs at other institutions nationally): renaming the existing minor the Classical Languages track and adding a second track in Classical Civilizations (18 hours, less focus on learning Latin/Greek language and greater focus on culture and history taught in English). Please note that a separate proposal is being submitted simultaneously to modify the existing major. As such, edits to the catalog description are reflected on both proposals.

Approved:	Date:
Robert M. West Department Head	Jan. 25, 2023
Chair, College or School Curriculum Committee	2/24/23
Dean of College or School	2/24/23
Chair, University Committee on Courses and Curricula	4/19/23
Chair, Graduate Council(if applicable)	
Liam Ryan Chair, Deans Council	May 2nd, 2023

PROPOSAL FOR MODIFICATION OF MINOR

Degree: Minor in Foreign Languages
Concentration: Classics

1. Catalog Description

This proposal makes several changes to the catalog description with respect to the proposed changes in the Classics minor and the addition of the Classics Honors society (included as part of the parallel modification to the Classics concentration for the Major in Foreign Languages), as listed in the proposed curriculum outline; see below.

2. Proposed Curriculum Outline

CURRENT Degree Description	PROPOSED Degree Description
Degree: Minor in Foreign Languages Major: Foreign Languages Concentration: Classics	Degree: Minor in Foreign Languages Major: Foreign Languages Concentration: Classics
Foreign language majors prepare for careers in government (State Department, foreign service, diplomatic corps, FBI, CIA, USIA, the military, immigration, etc), international business, the human services fields, teaching at all levels (secondary school, junior college, university), and other language-related jobs. Programs of study leading to the Bachelor of Arts (B.A.), the joint Bachelor of Arts and Bachelor of Business Administration, and the Master of Arts (M.A.) in Foreign Languages are offered. For the B.A., the department offers five major concentrations: Asian Studies, Classics, French, German, and Spanish. A minor in Foreign Languages with concentrations in Chinese, French, German, Italian, Japanese, Russian, and Spanish may be obtained upon satisfactory completion of 18 semester hours in one target language. *A minor with concentration in Classics requires 15 hours, 12 of which must be Greek or Latin courses beyond the first year; the remaining course may be any FL Classics course.* Education students desiring Foreign Language teaching certification must see appropriate guidelines from the Department of Curriculum, Instruction, and Special Education for the language requirements. *The Department sponsors three honor societies: Pi Delta Phi (French), Delta Phi Alpha (German), and*	Foreign language majors prepare for careers in government (State Department, foreign service, diplomatic corps, FBI, CIA, USIA, the military, immigration, etc), international business, the human services fields, teaching at all levels (secondary school, junior college, university), and other language-related jobs. Programs of study leading to the Bachelor of Arts (B.A.), the joint Bachelor of Arts and Bachelor of Business Administration, and the Master of Arts (M.A.) in Foreign Languages are offered. For the B.A., the department offers five major concentrations: Asian Studies, Classics, French, German, and Spanish. A minor in Foreign Languages with concentrations in Chinese, French, German, Italian, Japanese, Russian, and Spanish may be obtained upon satisfactory completion of 18 semester hours in one target language. **Classics offers minors on two distinct tracks. A minor with concentration in Classical Languages requires 15 hours of courses taught in Greek or Latin, 12 of which must be Greek or Latin courses beyond the first year (i.e. not including FLL 1113, FLL 1123, FLH 1113, or FLH 1123); the remaining course may be any FL Classics course. A minor with concentration in Classical Civilizations requires 18 hours total, which may be a combination of any FL Classics courses (excluding FL 2123) and any courses taught in Greek (FLH) or Latin (FLL).** Education students desiring Foreign Language teaching certification must see appropriate guidelines from the Department of Curriculum, Instruction, and Special Education for the language requirements.

Sigma Delta Pi (Spanish). Information about membership requirements may be obtained from the Head of the Department. The Department also sponsors language clubs which provide social and cultural activities for faculty and students. The Bachelor of Arts in Foreign Languages is awarded upon the successful completion of a minimum of 123 semester hours, including the following areas: General Education Requirements Bachelor of Arts Common Requirements Note that degree requirements vary among the concentrations. It is the student's responsibility to meet the requirements of the chosen concentration, as listed below. Completion of the fourth semester course of a second foreign language (12 semester credit hours) is recommended. In addition to the concentrations (Asian Studies*, Classics, French, German, and Spanish), the department offers courses in Italian and Russian. Study abroad is highly recommended. Foreign Language majors interested in following this recommended course of study should notify the advisor as soon as possible, so that a plan of study can be developed to make sure graduation requirements are met. The hours needed for graduation will depend upon the entry level of study into the major language; a minimum of eight, 3-credit hour courses in the chosen concentration at the 3000-level, or higher, is required. *Note: Asian Studies is structured to allow the student to choose an East Asian language that may be either Chinese or Japanese in addition to literature and culture courses.	**The Department sponsors four honor societies: Pi Delta Phi (French), Delta Phi Alpha (German), Sigma Delta Pi (Spanish), and Eta Sigma Phi (Classics).** Information about membership requirements may be obtained from the Head of the Department. The Department also sponsors language clubs which provide social and cultural activities for faculty and students. The Bachelor of Arts in Foreign Languages is awarded upon the successful completion of a minimum of 123 semester hours, including the following areas: General Education Requirements Bachelor of Arts Common Requirements Note that degree requirements vary among the concentrations. It is the student's responsibility to meet the requirements of the chosen concentration, as listed below. Completion of the fourth semester course of a second foreign language (12 semester credit hours) is recommended. In addition to the concentrations (Asian Studies*, Classics, French, German, and Spanish), the department offers courses in Italian and Russian. Study abroad is highly recommended. Foreign Language majors interested in following this recommended course of study should notify the advisor as soon as possible, so that a plan of study can be developed to make sure graduation requirements are met. The hours needed for graduation will depend upon the entry level of study into the major language; a minimum of eight, 3-credit hour courses in the chosen concentration at the 3000-level, or higher, is required. *Note: Asian Studies is structured to allow the student to choose an East Asian language that may be either Chinese or Japanese in addition to literature and culture courses.

CURRENT CLASSICS MINOR	Required Hours	**PROPOSED CLASSICS MINOR**	Required Hours
Any FL Classics course *Greek or Latin courses beyond first year*	*3* *12*	**Classical Languages Track:** **Any FL Classics course** **Greek (FLH) or Latin (FLL) courses beyond first year** **Total hours for Classical Languages Track**	 **3** **12** **15**
Total hours for minor	*15*		
		Classical Civilizations Track: **Any FL Classics courses (e.g. FL 4423: Greek History; FL 4433: Roman History; FL 4143: Classical Mythology) excluding FL**	 **18**

		2123 or any courses taught in Greek (FLH) or Latin (FLL) **Total hours for Classical Civilizations Track**	**18**
Notes: • At least one-half the hours in an undergraduate minor and two-thirds of the hours in a graduate minor must be taken at MSU. • A minimum grade point average of 2.0 is required in all courses taken as part of an undergraduate minor, while a minimum 3.0 is required in all courses taken as part of a graduate minor. • A student must declare intent to complete requirements for a minor prior to the declaration to graduate		Notes: • At least one-half the hours in an undergraduate minor and two-thirds of the hours in a graduate minor must be taken at MSU. • A minimum grade point average of 2.0 is required in all courses taken as part of an undergraduate minor, while a minimum 3.0 is required in all courses taken as part of a graduate minor. • A student must declare intent to complete requirements for a minor prior to the declaration to graduate	

2. Justification and Learning Outcomes

Up to this point, the Classics concentration of the existing Minor in Foreign Languages has focused on instruction in the ancient languages to the near total exclusion of courses offered in English on ancient civilization. It also represents a challenging pathway for students seeking to complete the minor, since it requires 15 hours of study beyond the first two courses in the introductory sequence, which disadvantages any students interested in pursuing the degree that did not start Latin or Greek immediately upon matriculating to Mississippi State, or who did not come in with previous experience in one or both languages. This revision represents an attempt to create a pathway that is more accessible for students interested in studying the ancient world by removing one of the primary obstacles for students who have less experience in the ancient languages or come to the languages too late in their academic careers to complete the existing minor successfully. Moreover, this change would bring our program into alignment with curricular structures in Classics programs nationally, including many of our peer programs, in the SEC and beyond, that two options for minors: a track specializing in the study of the ancient languages (our existing minor track) and an additional track emphasizing instruction in cultural and historical courses that do not require preexisting knowledge of Greek and Latin.

The learning outcomes for the new minor track are largely comparable to the existing minor: both tracks seek to deepen students' knowledge of the cultures of the ancient Mediterranean world and their persistent influence today, and to sharpen students' critical abilities when examining literary or historical topics related to the ancient world (and beyond). Moreover, because Classics is inherently interdisciplinary as a field, bringing together the study of ancient literature, political and social history, art, and archaeology, both tracks within the Classics minor hone students' analytical skills when dealing with a variety of kinds of evidence and provide a broad perspective on the ancient world. The sole difference is in the level of emphasis placed on the role of ancient language study within the two pathways.

3. Effective Date

Fall 2023

4. Four-Letter Abbreviation

CLAS

5. Letter of Support

See included with this proposal.

MISSISSIPPI STATE UNIVERSITY

CLASSICAL & MODERN LANGUAGES AND LITERATURES
P.O. Box FL
1501 Lee Hall
Mississippi State, MS 39762
P. 662.325.3480
www.cmll.msstate.edu

March 28, 2022

Dr. Andy Perkins, Chair

University Committee on Courses and Curricula

Dear Dr. Perkins:

The Department of Classical & Modern Languages and Literatures is submitting two proposals as outlined below for your consideration. The CMLL Curriculum Committee met on March 11 and voted unanimously to support these proposals as indicated by the signatures below. On March 25, the full department also voted in support of these proposals.

Modification to existing minor
Classics minor: modifying to add two tracks [Classical Civilizations and Classical Languages]

Course additions
FLS 4253/6253 Cultural (Mis)encounters: Hispanic American and its Diversity [new Campus 1 and 5 course]

Thank you for your consideration.

Sincerely,

Kelly Moser, Chair, kmb479@msstate.edu

Scott DiGiulio — Date: 29 March 2022

Robert Harland — Date: 03 / 30 / 2022

Fumiko Joo — Date: 03/28/22

Karim Simpore — Date: 3/28/22

Edward Potter — Date: 04/05/22

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: Arts and Sciences **Department:** Sociology

Contact Person: Dr. Ashley Vancil-Leap **Mail Stop:** 9562
E-mail: avleap@soc.msstate.edu
Nature of Change: Revising General Education language and MA requirements
Date Initiated: 2/6/2023 **Effective Date:** Fall 2023
Current Degree Program Name: Criminology

Major: Criminology **Concentration:**

Summary of Proposed Changes: The College of Arts and Sciences requested the Department of Sociology update its language in the Program Description to reflect current practices as the Registrar's Office moves away from CAPP towards building DegreeWorks. Additionally, the University asked the department to consider how we would like students to complete their General Education Mathematics requirements. Thus, the department faculty voted on February 3, 2023 on the following updates and changes.

Approved:	**Date:**
Department Head	2/6/23
Director of Academic Quality	2/22/23
Chair, College or School Curriculum Committee	2/24/23
Dean of College or School	2/24/23
Chair, University Committee on Courses and Curricula	4/19/23

Chair, Graduate Council(if applicable)

Chair, Deans Council

May 2nd 2023

DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Arts Major: Criminology	No change
The following degree program is offered: Bachelor of Arts. Criminology, as a field, explores the nature and causes of crime. Criminology also examines the impact crime has on society and how society responds to the social problem of crime. The Bachelor's degree in Criminology will emphasize the study of types, patterns and trends in criminal behavior; the social etiology of crime; and the social response to crime and its effect on society. The program will also train students to analyze crime data, test explanations of crime and victimization, and critically evaluate crime theory and policy. The Criminology program is appropriate for students wishing to pursue career paths in all justice related fields including: law enforcement; probation and parole; community based prevention and control programs; court based programs; and corrections. Because our program provides for a broad knowledge of the nature and trends of crime and an understanding of crime control policy along with methodological and critical thinking skills, our students will be prepared to assume positions of leadership across a range of career paths in crime and justice related professions, as well as be prepared for post-graduate studies in Sociology, Criminology, and Law and Legal Studies. All new freshmen desiring to major in Criminology will be admitted into the Criminology major in the College of Arts and Sciences at Mississippi State University. All other students wishing to major in Criminology must have a cumulative GPA of 2.0 or above on all college work attempted prior to entering the major. The criteria for remaining in the program include: 1. Students must earn a minimum of a "C" in all Criminology and Sociology courses. Students earning a grade lower than C in a Criminology or Sociology course must retake that course. 2. Students must maintain an overall GPA of 2.0 or above. Students who fall below the overall GPA of 2.0 must bring it up to 2.0 the next semester or drop the Criminology major. **Criminology Major Requirements** The BA in Criminology is a 36 credit hour major and is	No change

housed in the Sociology Department. All students will complete 18 hours in required course work: CRM 1003 Crime and Justice in America, CRM 2003 Crime, Justice, and Inequality, CRM 3603 Criminological Theory, SO 3213 Introduction to Social Research, SO 4804 Social Research Practice, and CRM 4803 Senior Seminar in Criminology. Students will also be required to take a minimum of three hours in each of three sub-areas of the program and nine hours of 3000-.or 4000- level criminology electives. The sub-areas are: Criminal Behavior and Motivation, Social Dimensions of Crime, and Crime Control Policy and Practice. Senior Internships will be available at various crime and justice related agencies. To qualify for an internship a student must have completed 24 hours of coursework within the criminology major and have earned a minimum of a 2.5 GPA in said coursework. Students will meet with the Criminology Program Coordinator to discuss the selection of an appropriate internship site. Students will be expected to have a minimum of 150 contact hours with the sponsoring internship agency, as well as meet specific course assignments. The internship is elective. Students will register for CRM 3033 Criminology Internship. A senior thesis option is available for students who have completed a minimum of 24 hours of coursework within criminology and have at least a 3.0 GPA in said coursework. Students who qualify and have an interest in the senior thesis option will work individually with a faculty member to produce a research paper on an approved topic in criminology. The thesis option is elective and designed for students wishing to pursue graduate school in criminology or a related field. Students will register for CRM 4000 Directed Individual Study in Criminology: Senior Thesis as a six credit hour course.	

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English Composition: EN 1103 English Composition I or *EN 1163 Accelerated Composition I* EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3 3	English Composition: EN 1103 English Composition I or **EN 1104 Expanded English Composition I** EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3 3
Foreign Language: *3 semesters - one Foreign Language – see advisor*	*9*	Foreign Language: **Foreign Language I** **Foreign Language II** **Foreign Language III**	 **3** **3** **3**

Humanities: Literature– *see General Education courses* History– *see General Education courses* Philosophy– *see General Education courses* Humanities Elective – *Must be from 2 different areas – see A&S Core list*	3 3 3 9	Humanities: Literature– **A&S core** History– **A&S core** Philosophy– **A&S core** Humanities Elective [1]	3 3 3 9
Mathematics: MA 1313 College Algebra *Mathematics higher than MA 1313*	3 3	Mathematics: MA 1313 College Algebra **or MA 1103 College Algebra Linked Lab-Corequisite Model or MA 1213 Math in Your World** **Second math– A&S core**	3 3
Fine Arts: *See A&S Core*	3	Fine Arts: **A&S core**	3
Natural Sciences: Physical Sciences w/lab *(CH, GG, PH) see General Education Courses* Biological Sciences w/lab *(BIO, EPP, PO) see General Education Courses* Natural Science Elective	3-4 3-4 3-4	Natural Sciences: Physical Science w/ lab– **A&S core** Life Science w/ lab– **A&S core** Natural Science Elective– **A&S core**	3-4 3-4 3-4
Social Sciences: SO 1003 Introduction to Sociology PS 1113 American Government PSY 1013 General Psychology *See A&S Core*	3 3 3 9	Social Sciences: SO 1003 Introduction to Sociology PS 1113 American Government PSY 1013 General Psychology **Social Science Electives [2] – A&S core**	3 3 3 9
Major Core: CRM 1003 Crime and Justice in America CRM 2003 Crime, Justice, and Inequality CRM 3603 Criminological Theory SO 3213 Introduction to Social Research SO 4804 Social Research Practice CRM 4803 Senior Seminar in Criminology Major Electives Criminal Behavior and Motivation Area Choose one of the following: CRM 3313 Deviant Behavior CRM 3503 Violence in the United States CRM 4233 Juvenile Delinquency CRM 4243 Drugs, Crime and Control CRM 4253 White Collar Crime and Elite Deviance Social Dimensions of Crime Area Choose one of the following: CRM 3343 Gender, Crime, and Justice CRM 3353 Race, Crime and Justice CRM 3363 Globalization and Crime CRM 4323 Victimology CRM 4343 Media, Crime and Justice Crime Control Policy and Practice Area	3 3 3 3 4 3 3 3	Major Core: CRM 1003 Crime and Justice in America CRM 2003 Crime, Justice, and Inequality CRM 3603 Criminological Theory SO 3213 Introduction to Social Research SO 4804 Social Research Practice CRM 4803 Senior Seminar in Criminology Major Electives Criminal Behavior and Motivation Area Choose one of the following: CRM 3313 Deviant Behavior CRM 3503 Violence in the United States CRM 4233 Juvenile Delinquency CRM 4243 Drugs, Crime and Control CRM 4253 White Collar Crime and Elite Deviance Social Dimensions of Crime Area Choose one of the following: CRM 3343 Gender, Crime, and Justice CRM 3353 Race, Crime and Justice CRM 3363 Globalization and Crime CRM 4323 Victimology CRM 4343 Media, Crime and Justice Crime Control Policy and Practice Area	3 3 3 3 4 3 3 3

Choose one of the following: CRM 3103 Contemporary Issues in Criminal Justice CRM 3133 Community Crime Prevention and Policy CRM 3123 Policing and Society CRM 4513 Correctional Systems CRM 4523 Law and Society Upper *Level* Electives *Select any three criminology courses at the 3000- or 4000-level*	3 9	Choose one of the following: CRM 3103 Contemporary Issues in Criminal Justice CRM 3133 Community Crime Prevention and Policy CRM 3123 Policing and Society CRM 4513 Correctional Systems CRM 4523 Law and Society **Criminology** Upper **Division** Electives	3 9
Oral Communication *Requirement*: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3	Oral Communication: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3
Writing Requirement: *Satisfied by successful completion of CRM 3603*		**Jr/Sr Writing:** **Satisfied with CRM 3603 in the major**	
Computer Literacy: *Satisfied by successful completion of SO 3213*			
General Electives: Consult advisor	*15*	General Electives: Consult advisor	**12-15**
Total Hours	124	Total Hours	124
(31 hours must be A&S 3000/4000 level)		**Note: Students must complete 31 upper division hours in A&S in residence at MSU.** **[1] Humanities electives must be courses in A&S and must cover two disciplines.** **[2] Social Science electives must be courses in A&S. The total 18 hours in Social Science must cover four disciplines; maximum of 6 hours per discipline; only one EC and one CO from A&S core list allowed across the 18 hours.**	

Justification and Student Learning Outcomes

The proposed changes to the general education and college requirements are being made for two primary reasons: (1) to bring the official catalog listing in line with the way the program has been functioning for years and (2) to provide greater clarity and accuracy. Students in the College of Arts & Sciences must adhere to the A&S core when fulfilling general education requirements. Though this is stated in the college section of the catalog, the clarification was never made within the program's listing. The proposed changes are seeking to correct this to ensure that the catalog listing, CAPP/DegreeWorks, and current practices all align and make all expectations and rules as clear as possible.

Additionally, the University has asked us to consider how we want students to complete their General Education requirements and the department felt that adding the option for students to also be able to take Math in Your World would allow students more opportunities to advance through the program with the tools and skills they need to

complete the program.

There will not be any modification to student's learning outcomes. However, this should benefit students for a variety of reasons. For one, updating our lanague to reflect current practices will help student advising as they work their way through the programs. Students will have a clearlier understanding of what is expected of them in our program. Additionally, by updating your requirements for their General Education Mathematics requirements, students will have the opportunity to mathematics courses that suit tehir skills, interests, and needs as they complete their college career.

Effective Date
Fall 2023

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF ARTS & SCIENCES

Department of Sociology
P.O. Box C
456 Hardy Road/207 Bowen Hall
Mississippi State, MS 39762
P. 662.325.2495
F. 662.325.4564
www.sociology.msstate.edu

February 3, 2023

Dear Chair, University Committee on Courses and Curriculum,

Please accept this letter of support for the program modifications in the Department of Sociology for the Criminology program. We voted to support this modification at the Sociology, Criminology and Social Work Undergraduate Curriculum Committee meeting, as well as the entire faculty on Friday, February 3, 2023. The program modification will fall in line with current practices and help the transition from CAPP to DegreeWorks as performed by MSU's Registrar's Office. These changes were also requested by the College of Arts and Sciences. For these reasons, our faculty are fully supportive of the program modification. Please contact Dr. Ashley Vancil-Leap, Chair of the Undergraduate Curriculum and Policies Committee if you have any further questions.

Sincerely,

Department of Sociology, Criminology and Social Work
Undergraduate Curriculum and Policy Committee

Ashley Vancil-Leap (Committee Chair)

Laura Boltz

Kenya Cistrunk

Stacy Haynes

Ashley Perry

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: Arts & Sciences **Department: n/a**

Contact Person: Melanie Loehwing **Mail Stop: 9706**
E-mail: mloehwing@deanas.msstate.edu

Nature of Change: degree modification
Date Initiated: February 10, 2023 **Effective Date: Fall 2023**

Current Degree Program Name: Bachelor of Arts in General Liberal Arts

Major: General Liberal Arts **Concentration: n/a**

New Degree Program Name: Bachelor of Arts in Liberal Arts

Major: Liberal Arts **Concentration: n/a**

Summary of Proposed Changes:

-Add introductory course (IDS 2111 Introduction to Interdisciplinary Studies) as a degree requirement.
-Format catalog description to be consistent with other undergraduate degrees and align with new general education math requirement.
-Drop "General" from the degree name.

Department Head	2/10/23
Director of Academic Quality	3/1/23
Chair, College or School Curriculum Committee	3/1/23
Dean of College or School	3/1/23
Chair, University Committee on Courses and Curricula	4/19/23
Chair, Graduate Council(if applicable)	
Chair, Deans Council	May 2nd, 2023

DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Arts Major: *General* Liberal Arts	Degree: Bachelor of Arts Major: **Liberal Arts**
Students who prefer to specialize in more than one field of study may earn a B.A. degree in *General* Liberal Arts. *Requirements for this degree include all of the following: satisfactory completion of the University General Education and College Core curriculum; satisfactory completion of the College of Arts & Sciences B.A. requirements; approval of the proposed G.L.A. program; satisfactory completion of 12 hours of upper-division courses (courses numbered 3000 and above) in each of three fields of study, all with a grade of C or better. The three fields may all be within the College of Arts & Sciences, or one of the three may be within another school/college of the University if that field is related to the student's educational or career goals.* To *insure* an orderly progression of work toward the degree, interested students should meet with the program's advisor as early as possible. *Furthermore, admittance into the program requires approval of the GLA Committee and the Associate Dean of the College of Arts & Sciences.* *General* Liberal Arts is not suitable for students who are uncertain about their choice of a major; these students should see the *Undecided* listing in the Academic Affairs section.	**The College of Arts and Sciences recognizes that students' interests may include more than one discipline and that some majors are not formally available at MSU.** Students who prefer to specialize in more than one field of study may earn a B.A. degree in Liberal Arts (BLA). **Through BLA, students can pursue a major that crosses two or more disciplines offered in the College of Arts and Sciences.** **The BLA degree requires satisfactory completion of the following:** **1. University General Education and College Core curriculum;** **2. College of Arts & Sciences B.A. requirements;** **3. Satisfactory completion of the BLA major core;** **4. A total of 121 semester hours;** **5. A 200-word minimum exit essay;** **The BLA major core consists of IDS 2111, GLA 4001, and a program of study consisting of at least 36 upper-division hours in approved emphasis areas.** **Each BLA program of study must consist of a broad, but coherent pattern of courses in 2-4 disciplines within the College of Arts and Sciences. These disciplines make up the emphasis areas within a student's program of study. Students may propose an individualized combination of emphasis areas, or they may select a preestablished concentration pathway that specifies the emphasis areas they must complete.** **Each emphasis area must comprise at least 9 hours of upper-division coursework in that discipline, and a minimum GPA of 2.0 is required in each area of emphasis.** **Students seeking admission to the BLA major will be required to submit an application to be reviewed by the Liberal Arts committee. BLA applications must contain the following: competed BLA application form (see BLA advisor); student's proposed program of study; a 100-word minimum entrance essay.** To **ensure** an orderly progression of work toward the degree, interested students should meet with the

		program's advisor as early as possible. **Liberal Arts** is not suitable for students who are uncertain about their choice of a major; these students should see the **Undeclared** listing in the Academic Affairs section.	
CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English Composition: EN 1103 English Composition I or *EN 1163 Accelerated Composition I* EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3 3	English Composition: EN 1103 English Composition I or **EN 1104 Expanded English Composition I** EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3 3
Foreign Language: *3rd semester proficiency - one language* *Emphasis Area – consult advisor*	 *39* *36*	Foreign Language: **Foreign Language I** **Foreign Language II** **Foreign Language III**	 **3** **3** **3**
Humanities: Literature– *see A&S requirements* History– *see A&S requirements* Philosophy *Elective– consult advisor* Humanities Electives– *must be from 2 different areas – see A&S core*	 3 3 3 9	Humanities: Literature– **A&S core** History– **A&S core** Philosophy– **A&S core** Humanities Electives [1]	 3 3 3 9
Mathematics: *MA 1313 College Algebra* *Above College Algebra*	 *3* *3*	Mathematics: **A&S core**	 **3**
Fine Arts: *See A&S requirements*	 3	Fine Arts: **A&S core**	 3
Natural Sciences: Physical Sciences w/lab [1] Life Science w/lab [2] Natural Science Elective [2]	 3-4 3-4 3-4	Natural Sciences: Physical Science w/ lab – **A&S core** Life Science w/ lab – **A&S core** Natural Science Elective – **A&S core**	 3-4 3-4 3-4
Social Sciences: [4] *See A&S core* Social Sciences Electives	 6 12	Social Sciences: **A&S core** Social Science Electives [2]	 6 12
Major Core: GLA 4001 Senior Project	 1	Major Core: **IDS 2111 Intro to Interdisciplinary Studies** GLA 4001 Senior Project **Emphasis Area Courses [3]**	 **1** 1 **36**
Oral Communication *Requirement* [3]	 3	Oral Communication: **CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to**	 3

		Communication	
Computer Requirement [3]	*3*		
Writing Requirement [3]	3	**Jr/Sr Writing:** **Consult advisor**	3
General Electives: *15 or more hours to equal 124*	*15*	General Electives: **Consult advisor**	**8-11**
Total Hours	124	Total Hours	**121**
[1] *CH, GG, or PH; see A&S core courses.* [2] *BIO, EPP, or PO; see A&S core courses.* [3] *Consult advisor.* [4] *Must be from 2 different areas and must cross 4 disciplines over the 18 hours. Only one Economics allowed. See advisor.*		**Note: Students must complete 31 upper-division hours in A&S in residence at MSU.** **[1] Humanities electives must be courses in A&S and must cover two disciplines.** **[2] Social Science electives must be courses in A&S. The total 18 hours in Social Science must cover four disciplines; maximum of 6 hours per discipline; only one EC and one CO from A&S core list allowed.** **[3] 2-4 emphasis areas of at least 9 upper division hours each. Emphasis areas must be A&S; consult advisor. A minimum GPA of 2.0 is required in each area of emphasis.**	

Justification

The Bachelor of Arts in General Liberal Arts degree is meant to accommodate high-achieving students who want to customize their major within the disciplines represented in the College of Arts & Sciences. Although it is an intentionally flexible curriculum, we would like to update the generic structure of the degree to better serve students in several ways.

First, we would like to drop the "General" from the degree name so that it is called a "Bachelor of Arts in Liberal Arts" (BLA). Currently, students are confused by the degree name and what it entails. We surveyed our peer institutions in the SEC and Big Ten, and found that the majority of these use the term "Liberal Arts" or "Liberal Studies" to describe their comparable degrees. "General Liberal Arts" confuses students because they conflate it with "General Education," and we think simply using the name "Liberal Arts" helps distinguish the major from the university's core requirements.

Second, we would like to require that all BLA majors take the newly proposed course IDS 2111 Introduction to Interdisciplinary Studies. Because the BLA is a degree that allows students to customize their curriculum by selecting 2-3 areas of study, they have no orientation to the degree or common exploration of what it means to pursue interdisciplinary work. We would like for them to be better prepared to develop their independent scholarly projects and curriculum by beginning with a foundational course in interdisciplinary studies.

Since students have a substantial number of general elective hours in the major, we do not anticipate any difficulty in adding this one-credit course requirement at the beginning of the curriculum. IDS 2111 will provide BLA students with the introduction they need to sustain an interdisciplinary approach to research and problem-solving as

they advance in their selected emphasis areas.

The other minor edits to the catalog description and degree requirements above are proposed to make the BLA degree description consistent with others in the catalog and to align it with the new general education math requirement of 3 hours instead of 6.

Effective Date

Fall 2023

Four-Letter Abbreviation

BALA

Letter of Support

See attached.

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF ARTS AND SCIENCES

P.O. Box AS
175 Presidents Circle
Mississippi State, MS 39762

P. 662.325.1665
F. 662.325.8740
cas.msstate.edu

February 10, 2023,

Dear Dr. Perkins and members of the UCCC,

I support the proposal to modify the Bachelor of Arts in General Liberal Arts (GLA) curriculum. We are proposing changes to the name and catalog description in order to provide clarity regarding the degree and its requirements. Changing the name to Bachelor of Arts in Liberal Arts (BLA) allows the degree to be more recognizable. The current catalog description is significantly lacking in information. A more detailed description allows us to be more consistent with the requirements and standards of the liberal arts degree. Additionally, we are proposing minor changes to course requirements within the degree. These changes include removal of the computer literacy requirement which is no longer a university requirement and addition of IDS 2111 Introduction to Interdisciplinary Studies to the curriculum as a degree requirement. These changes make the degree more consistent with the current university and college standards.

Sincerely,

Kate Sawaya

Kate Sawaya
BLA Coordinator
College of Arts & 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: Arts & Sciences **Department:** History

Contact Person: Matthew Lavine **Mail Stop:** 9707 **E-mail:** mbl87@msstate.edu
Nature of Change: program change **Date Initiated:** 12/1/22 **Effective Date:** Fall 2023

Current Degree Program Name : BA in History
Major: History **Concentration:** n/a

New Degree Program Name: BA in History
Major: History **Concentration:** n/a

Summary of Proposed Changes:

A. The courses that qualify for each category of upper-level history courses have been clarified and updated.

B. The computer literacy requirement has been discontinued and the hours assigned to electives.

C. The History of Science and Technology option has been added to the major core sequence.

Approved: **Date:**

Department Head — 12/16/22

Director of Academic Quality — 2/6/23

Chair, College or School Curriculum Committee — 2/24/23

Dean of College or School — 2/24/23

Chair, University Committee on Courses and Curricula — 4/19/23

Chair, Graduate Council(if applicable)

Chair, Deans Council — May 2nd 2023

1. **Catalog Description**

Given, along with minor proposed modifications, below.

2. **Curriculum Outline**

DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Arts Major: History	No change
Among the humanities disciplines, history is unique in the emphasis it places on interpreting human experience over place and time. Historians study the evolution of human beings and societies, emphasizing the importance of people's choices, values, and actions. History provides indispensable background and the social and political context for other academic disciplines and branches of knowledge. Specialization in history on the undergraduate level has direct professional application in the field of secondary education and provides excellent preparation for careers in law, the ministry, communication, journalism, government service, the military, and business. The department maintains a close working relationship with other departments on campus, making it possible for students who desire to do so to pursue double majors, joining history with geography, English, political science, business, computer science, or other fields. To earn a Bachelor of Arts degree with a major in history, a student must pass a minimum of 39 semester hours in history with a 2.50 average in those courses. All undergraduates majoring in history must complete two of the following basic sequences: HI 1063/HI 1073; HI 1163/HI 1173; HI 1 213/HI 1223; HI 1313/HI 1323. Along with these basic sequences, students are required to take a minimum of two upper division courses from Category I, two upper division courses from Category II, two upper division courses from Category III, plus two upper division courses from any Category. For information on which courses fit into particular categories, please contact an advisor. At the beginning of their junior year majors must enroll in and pass with a grade of "C" or better, a course	Among the humanities disciplines, history is unique in the emphasis it places on interpreting human experience over place and time. Historians study the evolution of human beings and societies, emphasizing the importance of people's choices, values, and actions. History provides indispensable background and the social and political context for other academic disciplines and branches of knowledge. Specialization in history on the undergraduate level has direct professional application in the field of secondary education and provides excellent preparation for careers in law, the ministry, communication, journalism, government service, the military, and business. The department maintains a close working relationship with other departments on campus, making it possible for students who desire to do so to pursue double majors, joining history with geography, English, political science, business, computer science, or other fields. To earn a Bachelor of Arts degree with a major in history, a student must pass a minimum of 39 semester hours in history with a 2.50 average in those courses. All undergraduates majoring in history must complete two of the following basic sequences: HI 1063/HI 1073; HI 1163/HI 1173; HI 1213/HI 1 223; HI 1313/HI 1323; **HI 1003/HI 1013**. Along with these basic sequences, students are required to take a minimum of two upper division courses from Category I, two upper division courses from Category II, two upper division courses from Category III, plus two upper division courses from any Category. For information on which courses fit into particular categories, please contact an advisor. **During their junior or senior years,** majors must enroll in and pass with a grade of "C" or better, the course Historiography and Historical Method (HI 3903). Fifteen hours of the upper division work (3000 and 4000 level courses) must be taken at Mississippi State. For a minor in history, a student must take a minimum of 18 semester hours of history including one of the basic sequences listed above plus twelve additional credit hours in history courses numbered 3000 and above including at least

in Historiography and Historical Method (HI 3903). Fifteen hours of the upper division work (3000 and 4000 level courses) must be taken at Mississippi State. For a minor in history, a student must take a minimum of 18 semester hours of history including one of the basic sequences listed above plus twelve additional credit hours in history courses numbered 3000 and above including at least one at the 4000 level. Students interested in a major or minor in history should consult one of the advisors listed. The Department of History offers work leading to both the M.A. and Ph.D. degrees. The prerequisite for admission to a graduate program in history is a minimum of 18 hours of undergraduate history courses. Students desiring to pursue graduate studies should consult the Graduate Coordinator. Mississippi State has a chapter of Phi Alpha Theta, the international history honorary society. Those interested in the eligibility requirements should consult with Professor Matthew Lavine.	one at the 4000 level. Students interested in a major or minor in history should consult **the Undergraduate Coordinator.** The Department of History offers work leading to both the M.A. and Ph.D. degrees. The prerequisite for admission to a graduate program in history is a minimum of 18 hours of undergraduate history courses. Students desiring to pursue graduate studies should consult the Graduate Coordinator. Mississippi State has a chapter of Phi Alpha Theta, the international history honorary society.

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English Composition: EN 1103 English Composition I or *EN 1163 Accelerated Composition I* EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3 3	English Composition: EN 1103 English Composition I or **EN 1104 Expanded English Composition I** EN 1113 English Composition II or EN 1173 Accelerated Composition II	 3 3
Foreign Language: *3 semesters one Foreign Language – See advisor.*	*9*	Foreign Language: **Foreign Language I** **Foreign Language II** **Foreign Language III**	 **3** **3** **3**
Humanities: Literature– *see General Education courses* *History– see major* Philosophy *Elective – see A&S requirements* Humanities Elective – *see A&S core* [1]	 3 *3* 3 9	Humanities: Literature– **A&S core** Philosophy– **A&S core** Humanities Electives [1] ***History requirement satisfied within the major.**	 3 3 9
Mathematics: MA 1313 College Algebra *MA 1323 Trigonometry or ST 2113 Introduction to Statistics*	 3 3	Mathematics: MA 1313 College Algebra **or MA 1103 College Algebra Linked Lab-Corequisite Model or MA 1213 Math in Your World** **Second math– A&S core**	 3 3
Fine Arts: *See A&S Core List.*	3	Fine Arts: **A&S core**	3

Natural Sciences: Physical Sciences w/lab [2] Biological Science w/lab [3] Natural Science Elective [4]	 3-4 3-4 3-4	Natural Sciences: Physical Science w/ lab– **A&S core** Life Science w/ lab– **A&S core** Natural Science Elective– **A&S core**	 3-4 3-4 3-4
Social Sciences [5]: *See A&S requirements* Social Sciences Electives	 6 12	Social Sciences: **A&S core** Social Science Electives [2]	 6 12
Major Core: Must choose two of the following sequences: U.S. History HI 1063 Early U.S. History HI 1073 Modern U.S. History World History HI 1163 World History Before 1500 HI 1173 World History Since 1500 Western World HI 1213 Early Western World HI 1223 Modern Western World East Asian Civ HI 1313 East Asian Civilizations to 1300 HI 1323 East Asian Civilizations since 1300 Category I History *U/D* Electives Category II History *U/D* Electives Category III History *U/D* Electives *U/D* Electives	 12 6 6 6 6	Major Core: Must choose two of the following sequences: U.S. History HI 1063 Early U.S. History HI 1073 Modern U.S. History World History HI 1163 World History Before 1500 HI 1173 World History Since 1500 Western World HI 1213 Early Western World HI 1223 Modern Western World East Asian Civ HI 1313 East Asian Civilizations to 1300 HI 1323 East Asian Civilizations since 1300 **History of Science and Technology** **HI 1003 History of Science in Six Ideas** **HI 1013 History of Technology in Six Objects** **HI 3903 Historiography and Historical Method** Category I History **Upper Division** Electives **(two courses):** **HI 3013 AfAm History to 1865** **HI 3023 AfAm History since 1865** **HI 3183 World Environmental History** **HI 3363 Am His of Transportation** **HI 3613 History of Life Science** **HI 3713 History of AfAm Women** **HI 3813 Modern Latin America** **HI 3853 US & Latin America** **HI 3893 20th Century World Hist** **HI 4000 Directed Indiv Study** **HI 4193 US Environmental History** **HI 4273 Women In Am History** **HI 4283 Hist Southern Women** **HI 4293 Hist of Gender & Science** **HI 4333 Native Amer His to 1830** **HI 4343 Immigration Hist of US** **HI 4363 African American Hist & Cult** **HI 4373 Hist Mod Civ Rts Mvt** **HI 4383 Native Am His since 1830** **HI 4403 Ancient Near East** **HI 4453 Greek History** **HI 4463 Roman History**	 12

		HI 4553 Science and Tech to Newton **HI 4563 Viet Nam Revol & War** **HI 4583 China Since 1800** **HI 4593 Japan Since 1600** **HI 4653 Hist Science & Tech** **HI 4783 African Civilization** **HI 4793 Modern Africa** **HI 4833 Colonial Latin - Amer** **HI 4843 Latin-American Repub** **HI 4853 Modern Mexico** **HI 4903 The Far East** **HI 4983 African Americans and the Law** **HI 4990 Special Topic In HI**	
		Category II History **Upper Division** Electives **(two courses)** **HI 3703 Western Church to 1600** **HI 3743 Hist Of England** **HI 3763 Hitler And Nazi Ger** **HI 3773 The Holocaust** **HI 3783 Modern European Imperialism** **HI 4000 Directed Indiv Study** **HI 4213 Grand Strategy and Int. Sec.** **HI 4223 20th C Intel Gathering** **HI 4413 Ancient Greece Rome** **HI 4593 History of the Cold War** **HI 4603 Medieval Civil** **HI 4613 History of the Soviet Union** **HI 4643 Renaissance, Reforma** **HI 4673 Europe 1789-1914** **HI 4683 Europe WWI - Hitler** **HI 4693 Europe WWII-Com Mark** **HI 4713 Tudor&Stuart England** **HI 4723 Britain Since 1688** **HI 4743 Evol International Politics** **HI 4753 History Of Russia** **HI 4763 Hist Of Mod Ger** **HI 4773 His Mod France** **HI 4990 Special Topic In HI**	6
		Category III History **Upper Division** Electives **(two courses)** **HI 3133 History U.S. Pop Culture** **HI 3333 Mississippi History** **HI 3343 Delta History Service SB** **HI 3363 Am His of Transportation** **HI 4000 Directed Indiv Study** **HI 4103 Colonial America** **HI 4113 U S Hist 1783-1825** **HI 4123 Jackson Am 1825-1850** **HI 4133 Civil War 1850-1877** **HI 4143 Revolutionary Amer** **HI 4153 U S Hist 1877-1917**	6

		HI 4163 U S Hist 1917-1945 **HI 4173 U S Hist Since 1945** **HI 4183 U. S. Economic History** **HI 4203 Diplomatic Hist Us** **HI 4233 American Military History** **HI 4243 Amer Life & Thought** **HI 4253 Religion In America** **HI 4263 America's Viet Nam War** **HI 4303 The Old South** **HI 4313 The New South** **HI 4323 American West** **HI 4393 Rural History** **HI 4493 Terrorism in America** **HI 4883 US History of Medicine** **HI 4990 Special Topic In HI** **History Upper Division** Electives **(two courses)** **any upper-level HI course except HI 3903**	6
Oral Communication *Requirement*: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3	Oral Communication: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3
Writing Requirement: *HI 3903 Historiography and Historical Method*	*3*	**Jr/Sr Writing:** **Satisfied with HI 3903 in the major**	
Computer Literacy: BIS 1012 Introduction to Business Information Systems or *TKT 1273*	2-3	[*deleted*]	
General Electives [6] Consult advisor.	*12*	General Electives: Consult advisor	**13-16**
Total Hours	124	Total Hours	124
(31 hours must be A&S 3000 or above) *[1] Must be from 2 different areas. Can be upper division hours; 6 hours may be HI courses; 3 must be from another area.* *[2] CH, GG, GR, or PH; see General Education courses.* *[3] BIO, EPP, or PO; see General Education courses.* *[4] Consult advisor.* *[5] Must be from 2 different areas and must cross 4 disciplines over the 18 hours. Only one Economics allowed. Can be upper division hours. See advisor.*		**Note: Students must complete 31 upper division hours in A&S in residence at MSU.** **[1] Humanities electives must be courses in A&S and must cover two disciplines. Six of the elective hours may be HI courses.** **[2] Social Science electives must be courses in A&S. The total 18 hours in Social Science must cover four disciplines; maximum of 6 hours per discipline; only one EC and one CO from A&S core list allowed.**	

[6] 13 hours of general electives required if BIS 1012 is chosen for computer requirement.			

3. Justification and learning outcomes

The changes proposed here are minor, technical adjustments to the established History curriculum, and mostly reflect the addition in recent years of new introductory core and upper-level courses, as well as curriculum changes in other departments whose offerings are required for history majors. The effect of these changes will be largely to increase administrative efficiency and will not substantially alter the student experience or the content of the major, save with exceptions as noted below.

A. Students will no longer be required to take a computer literacy course (previously TKT 1273 or BIS 1012). The hours previously allotted to this requirement will be put as electives. Students consistently report that the courses are redundant to their needs, and history courses as taught include instruction on the particular tools or computer-based research skills needed for the major.
B. The major core options have been expanded to include HI 1003 and HI 1013 as a permissible two-course sequence. As with other sequences, these are University core humanities courses that address a broad area within the discipline of history at a level appropriate for students entering the field.
C. The upper-division elective categories are designed to ensure that students receive coursework in a variety of geographical and topical areas. They are divided into those courses that primarily focus on American history (Category III), European history (Category II), and topical or methodological courses and those with a geographic focus in other parts of the world (Category I). These are now stated in the program description itself, and new courses have been assigned to the appropriate category.

4. Letter of support

A letter of support from the Undergraduate Curriculum Committee is attached.

5. Proposed 4-letter abbreviation

No change is required.

6. Effective date

The effective date for these changes will be the beginning of the Fall Semester, 2023.

TO: Dr. Andy Perkins, Chair
University Committee on Courses and Curricula

FROM: Dr. Matthew Lavine
Chair, History Department Undergraduate Committee

RE: Approval of Degree Program Change Proposal

DATE: December 14, 2022

Via e-mail, the Undergraduate Curriculum Committee of the History Department voted unanimously to approve the attached proposed degree modification. The proposed changes clarify the courses required for the foreign language requirement, update and clarify which courses satisfy the requirements for each upper-division elective category, remove the requirement to take a computer literacy course, and add a two-course History of Science and Technology option to the Major Core sequence.

These changes will require no new personnel or material requirements to implement.

Sincerely,

Dr. Matthew Lavine, Chair
with full permission and signature authority for the members of the Curriculum Committee:

Dr. James Giesen
Dr. Julia Osman
Dr. Courtney Thompson

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: Arts & Sciences
Department: N/A

Contact Person: Courtney Thompson
Mail Stop: 9707
E-mail: cthompson@history.msstate.edu

Nature of Change: New undergraduate minor
Date Initiated: 2/10/23
Effective Date: Fall 2023

Current Degree Program Name: N/A
Major: N/A
Concentration: N/A

New Degree Program Name: Medical Humanities Minor
Major: N/A
Concentration: N/A

Summary of Proposed Changes:
This minor will prepare undergraduate students to engage with biomedicine, health care, and the medical professions from an interdisciplinary perspective. It is designed in particular to serve the professional goals of pre-medical students and those interested in pursuing careers in healthcare, public health, or allied fields by broadening their analytical and theoretical understandings of health and medicine. The minor is being proposed in anticipation of the removal of undergraduate certificates from the curriculum.

Approved:	Date:
Department Head	2/10/23
Director of Academic Quality	2/28/23
Chair, College or School Curriculum Committee	3/3/23
Dean of College or School	3/2/23
Chair, University Committee on Courses and Curricula	4/19/23
Chair, Graduate Council(If applicable)	
Chair, Deans Council	May 2nd 2023

PROPOSAL FOR ADDITION OF MEDICAL HUMANITIES MINOR

1. CATALOG DESCRIPTION

The Medical Humanities minor is designed to provide students with an interdisciplinary perspective on biomedicine, health, and the health professions. The program requires 15 credit hours (5 courses) spanning the Arts & Sciences curriculum, which will introduce students to the critical humanities and social science perspectives on medicine and healthcare. Students who earn the Medical Humanities minor will have acquired a proficiency in critical, interdisciplinary studies of health and medicine.

Admission: The Medical Humanities minor is open to undergraduate students in good standing who are currently enrolled at the university in any major. The program requires a minimum of 15 semester hours with a grade of C or above in each course.

Administration: The Medical Humanities minor will be administered through the Dean's office in the College of Arts & Sciences. An A&S faculty member will be designated as the Medical Humanities Coordinator and will oversee the program's administration in collaboration with other faculty from departments represented in the curriculum as the Committee on Medical Humanities. The Medical Humanities coordinator will report on the progress of the program to the Dean of the College of Arts & Sciences.

2. CURRICULUM OUTLINE

Proposed Curriculum Outline	Required Hours
Required Courses: HI 4883 U.S. History of Medicine or HI 1003 History of Science in Six Ideas PHI 3323 Medical Ethics	 3 3
Electives: AN 1344 Introduction to Biological Anthropology AN 2103 Nutritional Anthropology AN 3343 Introduction to Forensic Anthropology	9

AN 4133 Medical Anthropology AN 4303 Human Variation and Origins AN 4313 Human Osteology AN 4323 Plagues and People AN 4333 Anthropology of Violence CO 4283 Health Communication HI 4293 History of Gender and Science PHI 4173 Philosophy of Biology PHI 4223 Philosophy of Cognitive Science PSY 3363 Behavior Modification PSY 3503 Health Psychology PSY 4323 History of Psychology PSY 4403 Biological Psychology PSY 4413 Cognitive Neuroscience REL 3483 Judeo-Christian Ethics SO 4423 Health and Society SO 4433 Sociology of Death and Dying SW 3003 Social Work with At-Risk Populations SW 4623 Social Work with the Aged SW 4633 Social Work in Health Care Other courses, including special topics courses (2990 and 4990) and graduate courses will be considered for elective credit on a case-by-case basis.	
Total Hours	15

3. COURSE DESCRIPTIONS

AN 1344 Introduction to Biological Anthropology: 4 hours.
Three hours lecture. Two hours laboratory. Biology of evolution, mechanism of speciation, concepts of race, and the primate order are explored culminating in an appreciation of paleoanthropology, human evolution, and human variation

AN 2103 Nutritional Anthropology: 3 hours.
Three hours lecture. Discussion of human diet and nutrition from holistic, cross-cultural perspective. Topics covered include evolution of human diet, nutrition and subsistence transitions; health, growth, and disease; food insecurity; and food in relation to economy, identity, religion, and senses

AN 3343 Introduction to Forensic Anthropology: 3 hours.
Three hours lecture. Examination of the foundations and role of forensic anthropology in the forensic sciences. Review of the biological profile, assessment of bone trauma, identification of taphonomic agents, and an exploration of mass disasters and human rights violations

AN 4133 Medical Anthropology: 3 hours.
(Prerequisite: AN 1103 or consent of instructor). Three hours lecture. The cross-cultural study of health, sickness, and medicine from a holistic perspective emphasizing in- teractions between culture and biology and between bio- medicine and local healing traditions

AN 4303 Human Variation and Origins: 3 hours.
Three hours lecture. An examination of human origins, genetics, and other principal factors that contribute to physical variation within and between human populations

AN 4313 Human Osteology: 3 hours.
Two hours lecture and two hours laboratory. Identification of each human bone both complete and fragmentary. Study of skeletal and dental development, sex differences, age changes, hard tissue histology, trauma analysis, and paleopathology. Guest lectures in advanced laboratory methods

AN 4323 Plagues and People: 3 hours.
Three hours lecture. Discussion of the impact of epidemic infectious diseases, such as the Black Death, syphilis, and HIV/AIDS, on human societies throughout history

AN 4333 Anthropology of Violence: 3 hours.
Three hours lecture. Cross-cultural anthropological analysis of group-level violence. Examination of modern ethnography, and archaeological and bioarchaeological data

CO 4283 Health Communication: 3 hours.
(Prerequisite: Junior standing or consent of instructor). Three hours lecture. A study of health communication, the contexts in which it occurs, and techniques used to create health messages

HI 1003 History of Science in Six Ideas: 3 hours.
A survey of the historical context and consequences of six concepts (the body, the senses, humanity, nature, power, the cosmos) in the Western world

HI 4293 History of Gender and Science: 3 hours.
Three hours seminar. Historical survey of scientific research on sex, the role of gender in the culture of science, and the contributions of women to scientific practice

HI 4883 U.S. History of Medicine: 3 hours.
Three hour lecture. Survey of the development of the medical profession and public health in the United States. Medical education and practice, scientific research, epidemics and illness emphasized

PHI 3323 Medical Ethics: 3 hours.
Three hours lecture. A philosophical study of situations requiring ethical decision making in the area of medicine. (Sophomore standing or above, or consent of instructor)

PHI 4173 Philosophy of Biology: 3 hours.
An examination of the central philosophical issues in the life sciences, particularly biological laws, classifications, selection, and reductionism

PHI 4223 Philosophy of Cognitive Science: 3 hours.
Three hours lecture. Exploration of the philosophical issues arising in cognitive science

PSY 3363 Behavioral Modification: 3 hours.
(Prerequisite: PSY 1013). Three hours lecture. Intensive examination of the principles and procedures used to modify the behavior of humans in contemporary situations

PSY 3503 Health Psychology: 3 hours.
(Prerequisites: PSY 1013 or PSY 1093). Three hours lecture. Overview of research on psychophysiological disorders and related interventions. Emphasis is placed on chronic physical disorders and their relationship to psychological functioning

PSY 4323 History of Psychology: 3 hours.
(Prerequisite: PSY 1013 and junior standing). Three hours lecture. A discussion of people, events, and theoretical and empirical contributions relevant to development of psychology

PSY 4403 Biological Psychology: 3 hours.
(Prerequisite: PSY 1013). Three hours lecture. Nervous, endocrine, and immune systems of the body as they affect behavior and adjustment. Emphasis upon the role of the central and peripheral nervous systems

PSY 4413 Cognitive Neuroscience: 3 hours.
(Prerequisite: PSY 1013 or consent of instructor). Three hours lecture. Introduction to cognitive neuroscience including how the function of neural systems inform our understanding of perception, attention, working memory, memory storage, and higher-order thought

REL 3483 Judeo-Christian Ethics: 3 hours.
A study of the foundation and contemporary application of Judeo-Christian ethics

SO 4423 Health and Society: 3 hours.
(Prerequisite:3 hours in sociology). Three hours lecture. Examines health and the health care structure of the United States as it relates to our culture,norms and social institutions

SO 4433 Sociology of Death and Dying: 3 hours.
(Prerequisite:3 hours in Sociology). Three hours lecture. Examines death as a social event, the social nature of death, relationships at the end of life, and social structural impacts on death and dying

SW 3003 Social Work with At-Risk Populations: 3 hours.
Three hours lecture. Examines the role and interaction of social workers with vulnerable groups. Includes concepts of racism, sexism, homophobia, oppression, affirmation action, and xenophobia

SW 4623 Social Work with the Aged: 3 hours.
Three hours lecture. Assessment of social, psychological, physical, and economic needs of aging persons; their utilization of services, conjoint planning and creation of new community based resources

SW 4633 Social Work in Health Care: 3 hours.
Three hours lecture. Assessment of social work knowledge, values, and skills in understanding psychosocial aspects of illness, medical terminology, recording, discharge planning, ethics, team disciplines, and community resources

4. JUSTIFICATION

In 2015, the MCAT was revised substantially, with the critical analysis and reasoning section now covering more humanities and social sciences content, with increased focus on cultural studies and bioethics in particular. Additionally, the MCAT has expanded its focus on topics including sociology, psychology, and population health. At many peer and peer-plus institutions, Medical Humanities programs have been developed in the past several years to respond to this trend. These programs prepare students not only for the new MCAT, but also fulfill an increasing expectation that healthcare professionals and biomedical workers are able to engage critically and compassionately with contemporary healthcare challenges and bioethical concerns.

The minor's course of study prepares students to think critically about contemporary problems in health care, medical practice, biomedicine, and bioethics. Rather than pursuing a perspective on medicine and health drawn exclusively from the physical and biological sciences, the minor encourages students to consider social, cultural, philosophical, and historical contexts and concerns relating to health and medicine. In addition to promoting an interdisciplinary and holistic liberal arts approach to the

study of biomedicine and health, it will help students pursuing medical study or health care careers to stand out from their peers.

The main difference between the current certificate and the proposed minor is the addition of HI 1003 as an option in the required courses. HI 1003 covers the history of medicine (despite the title), and it is our strong belief that students must take one HI class to complete the minor. Both HI 1003 and HI 4883 are acceptable choices given the content.

5. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Upon completing the Medical Humanities minor, students will be able to:

- Analyze contemporary health challenges in historical perspective.
- Engage with enduring bioethical debates.
- Consider biomedicine and health from a set of interdisciplinary perspectives beyond the sciences.
- Pursue careers in healthcare and biomedicine with a broader understanding of the social, cultural, and moral complexities of these professions.

Program assessment will be by means of an exit survey, in which the students will self-evaluate what they have learned about the Medical Humanities as a participant in the program and how this has shaped their thinking about contemporary health care debates, bioethics, and their own plans to pursue a career in healthcare.

6. EFFECTIVE DATE

Fall 2023

7. PROPOSED FOUR LETTER ABBREVIATION

MEDH

8. CONTACT

Courtney Thompson
cthompson@history.msstate.edu

9. LETTERS OF SUPPORT

Please see attached letters of support from the departments of Anthropology & Middle Eastern Cultures, Communication, History, Philosophy & Religion, Psychology, and Sociology, as well as a letter from the Health Professions Resource Center.

MISSISSIPPI STATE UNIVERSITY

College of Arts & Sciences
Dean's Office

P.O. Drawer AS
175 President Circle, 208 Allen Hall
Mississippi State, MS 39762

P. 662.325.1665
F. 662.325.8740
www.cas.msstate.edu

March 6, 2023

Dear Members of the UCCC:

The Department of Anthropology and Middle Eastern Cultures supports the new minor in Medical Humanities.

Members of the Department of Anthropology and Middle Eastern Cultures Curriculum Committee and I have reviewed the proposal and support the utilization of our courses in this project. We understand that the minor in Medical Humanities may include the following courses, which are part of our department's typical rotation.

- AN 1344 Introduction to Biological Anthropology
- AN 2103 Nutritional Anthropology
- AN 3343 Introduction to Forensic Anthropology
- AN 4133 Medical Anthropology
- AN 4303 Human Variation and Origins
- AN 4313 Human Osteology
- AN 4323 Plagues and People
- AN 4333 Anthropology of Violence

Sincerely,

Hsain Ilahiane

Dr. Hsain Ilahiane
Professor and Head
Department of Anthropology and Middle Eastern Cultures

MISSISSIPPI STATE UNIVERSITY

College of Arts & Sciences
Department of Communication

P.O. Box PF
216 President's Circle
Mississippi State, MS 39762

P. 662.325.3320
F. 662.325.3210
www.comm.msstate.edu

March 3, 2022

Dear Curriculum Committees:

The curriculum committee of the Department of Communication has met and approved the new minor in Medical Humanities. We also support the utilization of CO 4283 Health Communication in this minor and confirm that it is part of our department's typical rotation.

Faculty Member	Approve	Faculty Member	Approve
Wendy Roussin, MFA *Associate Professor & Chair*	X	Heesook Choi, PhD *Assistant Professor*	X
Kevin William, PhD *Associate Professor*	X	Matthew Webb, MFA *Assistant Clinical Professor*	X
Melody Fisher, PhD *Associate Professor*	X	Josh Foreman, MFA *Instructor*	X
Holli Seitz, PhD *Associate Professor*	X		

MISSISSIPPI STATE UNIVERSITY
DEPARTMENT OF HISTORY

February 24, 2023

Members of the UCCC:

The Department of History supports the new minor in Medical Humanities.

Members of the Department of History Curriculum Committee have reviewed the proposal and support the utilization of our courses in this project. We understand that the minor in Medical Humanities may include the following courses, which are part of our department's typical rotation.

- HI 1003 History of Science in Six Ideas
- HI 4293 History of Gender and Science
- HI 4883 U.S. History of Medicine

Sincerely,

Dr. Matthew Lavine
Chair, Curriculum Committee

Dr. James Giesen
Associate Professor

Dr. Julia Osman
Associate Professor

Dr. Courtney Thompson
Associate Professor

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF ARTS & SCIENCES
Department of Philosophy & Religion

J. Robert Thompson, Head
George Hall 1010
233 Lee Blvd
P.O. Box JS
Mississippi State, MS 39762

P. 662.325.2161
F. 662.325.3340
www.philosophyandreligion.msstate.edu

February 22, 2023

Members of the UCCC:

The Department of Philosophy and Religion supports the new minor in Medical Humanities.

Members of the Department of Philosophy and Religion Curriculum Committee and I have reviewed the proposal and support the utilization of our courses in this project. We understand that the minor in Medical Humanities may include the following courses, which are part of our department's typical rotation.

- PHI 3323 Medical Ethics
- PHI 4173 Philosophy of Biology
- PHI 4223 Philosophy of Cognitive Science
- REL 3483 Judeo-Christian Ethics

Sincerely,

J. Robert Thompson, Ph.D.
Head
Department of Philosophy and Religion

MISSISSIPPI STATE UNIVERSITY

College of Arts & Sciences
Dean's Office

P.O. Drawer AS
175 President Circle, 208 Allen Hall
Mississippi State, MS 39762

P. 662.325.1665
F. 662.325.8740
www.cas.msstate.edu

February 10, 2023

Members of the UCCC:

The Department of Psychology supports the new minor in Medical Humanities.

Members of the Department of Psychology Curriculum Committee and I have reviewed the proposal and support the utilization of our courses in this project. We understand that the minor in Medical Humanities may include the following courses, which are part of our department's typical rotation.

- PSY 3363 Behavior Modification
- PSY 3503 Health Psychology
- PSY 4323 History of Psychology
- PSY 4403 Biological Psychology
- PSY 4413 Cognitive Neuroscience

Sincerely,

Mitchell Berman

Dr. Mitchell Berman
Professor and Head
Department of Psychology

MISSISSIPPI STATE UNIVERSITY

College of Arts & Sciences
Dean's Office

P.O. Drawer AS
175 President Circle, 208 Allen Hall
Mississippi State, MS 39762

P. 662.325.1665
F. 662.325.8740
www.cas.msstate.edu

March 3, 2023

Dear Members of the UCCC,

The Department of Sociology supports the new minor in Medical Humanities.

Members of the Department of Sociology, Criminology and Social Work Undergraduate Curriculum and Policy Committee have reviewed the proposal and support the utilization of our courses in the Medical Humanitites minor. The full faculty met on Friday, March 3rd, and voted to support the minor. We understand that the minor in Medical Humanities may include the following courses:

- SO 4423 Health and Society
- SO 4433 Sociology of Death and Dying
- SW 3003 Social Work with At-Risk Populations
- SW 4623 Social Work with the Aged
- SW 4633 Social Work in Health Care

Sincerely,
Department of Sociology, Criminology and Social Work
Undergraduate Curriculum and Policy Committee

Ashley Vancil-Leap — Ashley Vancil-Leap (Chair)

Laura Boltz — Laura Boltz

Kenya M. Cistrunk, PhD, LMSW — Kenya Cistrunk

Stacy Haynes

Ashley Perry

MISSISSIPPI STATE UNIVERSITY

Dr. A. Randle and Marilyn W. White
Health Professions Resource Center
Rice Hall
180 Magruder Street
Mississippi State, MS 39762

P. 662.325.8825
F. 662.325.1892
www.prehealth.msstate.edu

March 2, 2023

Dear UCCC Committee:

The Dr. Randle & Marilyn White Health Professions Resource Center (HPRC) fully supports the minor in Medical Humanities. Pre-health students have been working towards and receiving the Medical Humanities certificate since its inception. The pre-health advisors at the HPRC would like to continue to see this opportunity offered to students as a minor.

The Medical Humanities minor benefits students two-fold: First, students benefit in preparation for the Medical College's Admission Test (MCAT) on both the Critical Analysis and Reasoning Skills section and the new Psychological, Social, and Biological Foundations of Behavior section through taking extra social sciences and humanities. Currently, MSU science and engineering majors are scoring the lowest in these specific sections on the MCAT. Secondly, most medical schools, and now other health professional schools are conducting Multiple Mini-Interviews where an interviewing student is given an ethical scenario and then asked how he or she would handle such a situation. This type of interview process requires critical reasoning skills as well as forming ethical judgements. Consequently, the Medical Humanities minor will give students an edge up on this type of interview process through studying current societal topics and ethical issues in healthcare.

It is our view the Medical Humanities certificate should be continued as a minor because it enhances the competitiveness of our MSU pre-medical and pre-health students' applications to health professional schools. However, ultimately the minor facilitates a more compassionate and empathizing healthcare provider.

Sincerely,

Mary C Reese

Mary Celeste Reese, PhD
Assistant Clinical Professor
Director, HPRC

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: Arts and Sciences **Department:** Sociology

Contact Person: Dr. Ashley Vancil-Leap **Mail Stop:** 9562
E-mail: avleap@soc.msstate.edu
Nature of Change: Revising General Education language and MA requirements
Date Initiated: 2/6/2023 **Effective Date:** Fall 2023
Current Degree Program Name: Sociology

Major: Sociology **Concentration:**

Summary of Proposed Changes: The College of Arts and Sciences requested the Department of Sociology update its language in the Program Description to reflect current practices as the Registrar's Office moves away from CAPP towards building DegreeWorks. Additionally, the University asked the department to consider how we would like students to complete their General Education Mathematics requirements. Thus, the department faculty voted on February 3, 2023 on the following updates and changes.

Approved:	**Date:**
Department Head	2/6/23
Director of Academic Quality	2/22/23
Chair, College or School Curriculum Committee	2/24/23
Dean of College or School	2/27/23
Chair, University Committee on Courses and Curricula	4/19/23

Chair, Graduate Council(if applicable)

Chair, Deans Council

May 2nd 2023

DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Arts Major: Sociology	No change
The following degree programs are offered: Bachelor of Arts, Master of Science, and Doctor of Philosophy. Sociology is the scientific study of social life. With an interest in understanding human behavior, sociologists study such phenomena as deviant behavior, social organization, stratification, population, community, social institutions, race and ethnic relations, social problems, theory and methods of research. Sociology majors are well prepared to enter many rewarding positions in the work force right out of college or further graduate training in law, business, community planning, architecture, medicine, politics or academics. Opportunities for employment include, but are not restricted to entry-level positions in administration, advertising, banking, counseling (family planning, career, substance abuse, etc.), health services, journalism, group and recreation work, marketing and market research, sales, non-profit organizations, teaching, criminal justice, social services and social research. In addition, sociology provides training that other liberal arts majors do not, such as the core elements of human interaction and relationships, and basic training for research analyst positions (in statistics and research methods, which include computer applications, for example). Students are eligible for membership in the Mississippi Alpha chapter of Alpha Kappa Delta, the International Sociology Honor Society. To be considered for membership, a student must be an officially declared sociology major or demonstrate a serious interest in sociology, must be at least a junior, have at least a 3.00 overall GPA, and must have maintained a 3.00 GPA in sociology courses. To earn a Bachelor of Arts degree with a major in sociology, a student is required to take 36 hours of sociology. All new freshmen desiring to major in Sociology will be admitted into the Sociology major in the College of Arts and Sciences at Mississippi State University. For all other students wishing to major in Sociology, to be eligible for admission to the Sociology program, students must have a cumulative GPA of 2.0 or above on all	No change

college work attempted prior to entering the major. The criteria for remaining in the program include:

1. Students must earn a minimum of a "C" in all Sociology courses. Students earning a grade lower than C in a Sociology course must retake that course.
2. Students must maintain an overall GPA of 2.0 or above. Students who fall below the overall GPA of 2.0 must bring it up to 2.0 the next semester or drop the Sociology major.

Sociology Major Course Requirements

The sociology major consists of a sequence of four levels of courses ranging from introductory to the more advanced and capstone courses. Students are expected to complete courses in the lower levels before taking courses in the more advanced levels. For example, students should complete Level I courses before completing Level II courses, etc. The lower level courses are prerequisites for the advanced level courses.

Required courses include: SO 1003 Introduction to Sociology, SO 2203 Introduction to Race and Ethnicity, SO 3103 Social Theory I, SO 3213 Introduction to Social Research, and SO 4804 Social Research Practice.

Students are also required to take one of the following courses: SO 3003 Social Inequality, SO 3013 Society and the Individual, or SO 3053 Organizations in Modern Society.

Finally, students must select any seven additional sociology courses, including any of those not listed above. A minimum of six of these courses must be 3000 or 4000 level.

Sociology Minor

To earn a minor in sociology, a student must take 18 hours of undergraduate sociology courses. SO 1003, SO 2203, and SO 3213 are required. The other three SO courses must be 2000 level or above and include at least one 4000 level SO course.

Students who wish to major or minor in the department should plan their programs with the departmental major advisor as soon as possible after entering the University and should consult with their advisor before each registration period. Programs are arranged individually to combine the most varied advantages consistent with the student's interest and purposes. Persons interested in secondary school teaching may elect sufficient courses in the College of Education to satisfy certification requirements for teaching social studies.

CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English Composition: EN 1103 English Composition I or *EN 1163 Accelerated Composition I* EN 1113 English Composition II or EN 1173 Accelerated Composition II	3 3	English Composition: EN 1103 English Composition I or **EN 1104 Expanded English Composition I** EN 1113 English Composition II or EN 1173 Accelerated Composition II	3 3
Foreign Language: *3 semesters - one Foreign Language – see advisor*	9	Foreign Language: **Foreign Language I** **Foreign Language II** **Foreign Language III**	**3** **3** **3**
Humanities: Literature– *see General Education courses* History– *see General Education courses* Philosophy– *see General Education courses* Humanities Elective – *Must be from 2 different areas – see A&S Core list*	3 3 3 9	Humanities: Literature– **A&S core** History– **A&S core** Philosophy– **A&S core** Humanities Elective [1]	3 3 3 9
Mathematics: MA 1313 College Algebra *Mathematics higher than MA 1313*	3 3	Mathematics: MA 1313 College Algebra or **MA 1103 College Algebra Linked Lab-Corequisite Model or MA 1213 Math in Your World** **Second math– A&S core**	3 3
Fine Arts: *See A&S Core List.*	3	Fine Arts: **A&S core**	3
Natural Sciences: Physical Sciences w/lab *(CH, GG, PH)* [1] Biological Sciences w/lab *(BIO, EPP, PO)* [1] Natural Science Elective – *see General Education courses* [2]	3-4 3-4 3-4	Natural Sciences: Physical Science w/ lab– **A&S core** Life Science w/ lab– **A&S core** Natural Science Elective– **A&S core**	3-4 3-4 3-4
Social Sciences: See Major Core Level I		Social Sciences: See Major Core Level I	
Major Core: Courses in the major are sequenced by level. Level I: Intro to the discipline *Social Sciences – Must be from 2 different areas and must cross 4 disciplines over the 18 hours. Only one Economics allowed. See advisor.* SO 1003 Intro to Sociology PS 1113 American Government EC 2113 Principles of Macroeconomics *See General Education courses* *Social Science courses – see A&S Core list* Level II: Sociology Substantive Core SO 2203 Introduction to Race and Ethnicity	 3 3 3 3 6 3	Major Core: Courses in the major are sequenced by level. Level I: Intro to the discipline SO 1003 Intro to Sociology PS 1113 American Government EC 2113 Principles of Macroeconomics **Social Science– A&S core** **Social Science Electives** [2] Level II: Sociology Substantive Core SO 2203 Introduction to Race and Ethnicity	 3 3 3 3 6 3

Choose one of the following: SO 3003 Social Inequality SO 3013 Society and the Individual SO 3053 Organizations in Modern Society Level III: Tools and Skills SO 3103 Social Theory I SO 3213 Introduction to Social Research SO 4804 Social Research Practice Level IV: Sociology *General Upper Division Core* *Select any seven additional sociology courses, including any of those not listed above. A minimum of six of these courses must be 3000-4000 level.*	3 3 3 4 21	Choose one of the following: SO 3003 Social Inequality SO 3013 Society and the Individual SO 3053 Organizations in Modern Society Level III: Tools and Skills SO 3103 Social Theory I SO 3213 Introduction to Social Research SO 4804 Social Research Practice Level IV: Sociology **Electives** **Sociology Elective** **Sociology Upper Division Electives**	3 3 3 4 3 18
Oral Communication *Requirement*: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3	Oral Communication: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3
Writing Requirement: *Satisfied by successful completion of SO 3103*		**Jr/Sr Writing:** **Satisfied with SO 3103 in the major**	
Computer Literacy: *Satisfied by successful completion of SO 4804*			
General Electives: Consult advisor.	*15*	General Electives: Consult advisor	**12-15**
Total Hours	124	Total Hours	124
(31 hours must be A&S 3000/4000 level) **There is an indication of two footnotes, but those footnotes don't exist in the catalog. The information is addressed with the edits in the column to the right.*		**Note: Students must complete 31 upper division hours in A&S in residence at MSU.** **[1] Humanities electives must be courses in A&S and must cover two disciplines.** **[2] Social Science electives must be courses in A&S. The total 18 hours in Level I/Social Science must cover four disciplines; maximum of 6 hours per discipline; only one EC and one CO from A&S core list allowed across the 18 hours.**	

Justification and Student Learning Outcomes

The proposed changes to the general education and college requirements are being made for two primary reasons: (1) to bring the official catalog listing in line with the way the program has been functioning for years and (2) to provide greater clarity and accuracy. Students in the College of Arts & Sciences must adhere to the A&S core when fulfilling general education requirements. Though this is stated in the college section of the catalog, the clarification was never made within the program's listing. The proposed changes are seeking to correct this to ensure that the catalog listing, CAPP/DegreeWorks, and current practices all align and make all expectations and rules as clear as possible.

Additionally, the University has asked us to consider how we want students to complete their General Education requirements and the department felt that adding the option for students to also be able to take Math in Your World would allow students more opportunities to advance through the program with the tools and skills they need to complete the program.

There will not be any modification to student's learning outcomes. However, this should benefit students for a variety of reasons. For one, updating our lanague to reflect current practices will help student advising as they work their way through the programs. Students will have a clearlier understanding of what is expected of them in our program. Additionally, by updating your requirements for their General Education Mathematics requirements, students will have the opportunity to mathematics courses that suit tehir skills, interests, and needs as they complete their college career.

Effective Date
Fall 2023

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF ARTS & SCIENCES

Department of Sociology
P.O. Box C
456 Hardy Road/207 Bowen Hall
Mississippi State, MS 39762
P. 662.325.2495
F. 662.325.4564
www.sociology.msstate.edu

February 3, 2023

Dear Chair, University Committee on Courses and Curriculum,

Please accept this letter of support for the program modifications in the Department of Sociology for the Sociology program. We voted to support this modification at the Sociology, Criminology and Social Work Undergraduate Curriculum Committee meeting, as well as the entire faculty on Friday, February 3, 2023. The program modification will fall in line with current practices and help the transition from CAPP to DegreeWorks as performed by MSU's Registrar's Office. These changes were also requested by the College of Arts and Sciences. For these reasons, our faculty are fully supportive of the program modification. Please contact Dr. Ashley Vancil-Leap, Chair of the Undergraduate Curriculum and Policies Committee if you have any further questions.

Sincerely,

Department of Sociology, Criminology and Social Work
Undergraduate Curriculum and Policy Committee

Ashley Vancil-Leap (Committee Chair)

Laura Boltz

Kenya Cistrunk

Stacy Haynes

Ashley Perry

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

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

College: Education **Department:** Kinesiology
Contact Person: Brad Vickers Mail Stop: E-mail: bv44@colled.msstate.edu
Nature of Change: Delete EPY3253,EDF4243, Add TECH4763Date Initiated: 02/09/23
Effective Date: Fall 2023

Current Degree Program Name: Bachelor of Science

Major: Kinesiology Concentration: Physical Education and Coaching, Neuromechanics, Strength and Conditioning, Clinical Exercise Physiology, Sport Administration, Physical Education and Coaching (non-licensure)

Effected Concentrations

Major: Kinesiology Concentration: Physical Education and Coaching

Delete/Add specific courses in PECO

The curriculum committee of the Division of Sport Studies met to discuss the addition of TECH4763, and the deletion of EPY3253 and EDF4243.

These changes would decrease the curriculum from 124 to 121 hours, but it will significantly enhance the quality of the curriculum at the same time. EPY3253 and EDF4243 are no longer being offered and thus the needed deletion. PE 4173 already achieves many of the objectives from EPY3253 and will include more of those objectives in the future. The objectives in EDF4243 will be included in a myriad of courses already included in the PECO curriculum (PE1243, PE4163, PE4533, PE4873, EDF3333). The Mississippi Department of Education (MDE) is expected to increase the number of undergraduate technology hours completed, and the addition of TECH4763 will preemptively meet that need. This program will continue to meet local, state, regional, and national educational and curricular needs.

Approved: **Date:**

Department Head

3-7-23

JohnEric W. Smith, PhD

Digitally signed by JohnEric W. Smith, PhD
Date: 2023.03.09 11:34:14 -06'00'

Chair, College or School Curriculum Committee

Kimberly R. Hall

Digitally signed by Kimberly R. Hall
Date: 2023.03.09 12:22:24 -06'00'

Dean of College or School

4/19/23

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

May 2nd, 2023

Chair, Deans Council

DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Kinesiology Concentration: Neuromechanics	Degree: Bachelor of Science Major: Kinesiology Concentration: Neuromechanics
Neuromechanics Concentration (NRMC) The Neuromechanics concentration requires 124 semester hours of prescribed courses to complete a Bachelor of Science in Kinesiology. The Neuromechanics concentration combines the disciplines of "neuroscience" and "biomechanics" and deals with the study of human movement accomplished by the interaction of the nervous, muscular, and skeletal systems of the human body. Students learn concepts of the neuromechanical basis of kinesiology in the development, learning, control, and production of human movement. This enhances their knowledge and understanding of neural, biomechanical, cognitive, and behavioral mechanisms underlying human movements to help improve performance and prevent injuries in a variety of populations ranging from recreational, athletic, occupational, geriatric, and special populations such as Downs' syndrome, autism, and Parkinson's disease. The curriculum provides students a foundation in the mechanisms underlying human movement to prepare them for careers in physical therapy, occupational therapy, medicine/physician assistance, neuromechanics, human factors ergonomics, sport science, and disability and rehabilitation science.	Neuromechanics Concentration (NRMC) The Neuromechanics concentration requires 124 semester hours of prescribed courses to complete a Bachelor of Science in Kinesiology. The Neuromechanics concentration combines the disciplines of "neuroscience" and "biomechanics" and deals with the study of human movement accomplished by the interaction of the nervous, muscular, and skeletal systems of the human body. Students learn concepts of the neuromechanical basis of kinesiology in the development, learning, control, and production of human movement. This enhances their knowledge and understanding of neural, biomechanical, cognitive, and behavioral mechanisms underlying human movements to help improve performance and prevent injuries in a variety of populations ranging from recreational, athletic, occupational, geriatric, and special populations such as Downs' syndrome, autism, and Parkinson's disease. The curriculum provides students a foundation in the mechanisms underlying human movement to prepare them for careers in physical therapy, occupational therapy, medicine/physician assistance, neuromechanics, human factors ergonomics, sport science, and disability and rehabilitation science.

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
ENGLISH (6 hours)		ENGLISH (6 hours)	6
EN 1103 English Comp 1 (prereq.: ACT English score 17 or above or EN 0103) OR EN 1104 Expanded English Composition I (Prerequisite: Score of 16 or below on the English section of the ACT.)	3	EN 1103 English Comp 1 (prereq.: ACT English score 17 or above or EN 0103) OR EN 1104 Expanded English Composition I (Prerequisite: Score of 16 or below on the English section of the ACT.)	3
EN 1113 English Comp II (prereq: EN 1103 or a final grade of C or higher in EN 1104) OR EN 1173 Accelerated Composition II (Prerequisite: EN 1163 or an ACT sub-score in English of 28 or higher)	3	EN 1113 English Comp 2 (prereq.: English Comp I or Accelerated Comp I) OR EN 1173 Accelerated Comp II (prereq.: Accelerated Comp 1 or ACT English score 28 or higher)	3
FINE ARTS (3 hours)		FINE ARTS (3 hours)	3
PE 1323 History & Appreciation of Dance Or other Gen. Ed. Fine Arts (see Gen. Ed. Requirements: Fine Arts)	3	PE 1323 History & Appreciation of Dance Or other Gen. Ed. Fine Arts (see Gen. Ed. Requirements: Fine Arts)	
MATH (6 hours)		MATH (6 hours)	8

MA 1313 College Algebra (prereq.: ACT Math subscore 19 or prereq. grade of C or better in MA 0103)	3	MA 1313 College Algebra (prereq.: ACT Math subscore 19 or prereq. grade of C or better in MA 0103)	
ST 2113 Introduction to Statistics (prereq.: ACT Math subscore 24 or a grade of C or better in MA 1313)	3	ST 2113 Introduction to Statistics (prereq.: ACT Math subscore 24 or a grade of C or better in MA 1313)	
SCIENCES (11 hours): suggested completion before Spring, Sophomore year)		SCIENCES (11 hours): suggested completion before Spring, Sophomore year)	3
BIO 1134 Biology 1 OR other Gen. Ed. 4-hr BIO Natural Sci. (see Gen. Ed. Requirements: Natural Science)	4	BIO 1134 Biology 1 OR other Gen. Ed. 4-hr BIO Natural Sci. (see Gen. Ed. Requirements: Natural Science)	
CH 1213 Chemistry 1 & CH 1211 Investig. in Chem. 1 OR other Gen. Ed. 4-hr CH Natural Sci. (see Gen. Ed. Requirements: Natural Sci.)	4	CH 1213 Chemistry 1 & CH 1211 Investig. in Chem. 1 OR other Gen. Ed. 4-hr CH Natural Sci. (see Gen. Ed. Requirements: Natural Sci.)	6
Natural Science: suggest BIO 1004 (prereq.: any course in bio. sciences) OR other Gen. Ed. Natural Sci. (see General Ed. Requirements: Natural Sci.)	3-4	Natural Science: suggest BIO 1004 (prereq.: any course in bio. sciences) OR other Gen. Ed. Natural Sci. (see General Ed. Requirements: Natural Sci.)	
HUMANITIES (6 hrs)		HUMANITIES (6 hrs)	
Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3	Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	6
Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3	Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	
SOCIAL SCIENCES (6 hrs)		SOCIAL SCIENCES (6 hrs)	6
PSY 1013 Psychology OR other Gen. Ed. Social/Behavioral Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3	PSY 1013 Psychology OR other Gen. Ed. Social/Behavioral Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	
SO 1003 Intro. to Sociology OR other Gen. Ed. Social/Beh. Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3	SO 1003 Intro. to Sociology OR other Gen. Ed. Social/Beh. Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	
Exercise Science Core	27	Exercise Science Core	27
EP 3304 Exercise Physiology: suggestion completion by end of Sophomore year (prereq.: BIO 1004 Anat. & Phys. OR BIO 3014 Human Phys. & CH 1213 or CH 1043 *BIO 3014 typically offered Spr. only (prereqs. for BIO 3014: BIO 1134 & CH 1213 or BIO 2004 & CH 1043)	4	EP 3304 Exercise Physiology: suggestion completion by end of Sophomore year (prereq.: BIO 1004 Anat. & Phys. OR BIO 3014 Human Phys. & CH 1213 or CH 1043 *BIO 3014 typically offered Spr. only (prereqs. for BIO 3014: BIO 1134 & CH 1213 or BIO 2004 & CH 1043)	4
EP 3643 Applied Anatomy and Pathophysiology (prereq.: BIO 1004 Anat. & Phys. {typically offered Spring only} or BIO 3004 Human Anat. {typically Fall only})	3	EP 3643 Applied Anatomy and Pathophysiology (prereq.: BIO 1004 Anat. & Phys. {typically offered Spring only} or BIO 3004 Human Anat. {typically Fall only})	3
EP 4113 Fitness Programs and Testing Procedures (prereq.: EP 3304)	3	EP 4113 Fitness Programs and Testing Procedures (prereq.: EP 3304)	3
EP 4183 Exercise and Weight Control (prereq.: EP 3304)	3	EP 4183 Exercise and Weight Control (prereq.: EP 3304)	3
EP 4504 Mechanical Analysis of Movement (prereq.: EP3233 Anatomical Kinesiology)	4	EP 4504 Mechanical Analysis of Movement (prereq.: EP3233 Anatomical Kinesiology)	4
EP 4603 Physical Activity Epidemiology (prereq.: EP 3304)	3	EP 4603 Physical Activity Epidemiology (prereq.: EP 3304)	3
EP 4814 Exercise Science Internship (prereq.: senior status, completion of at least 12 hrs. within CLEP CONCENTRATION COURSES, Intern. Coordin. approval, see Kines. Advising Hub for important forms).	4	EP 4814 Exercise Science Internship (prereq.: senior status, completion of at least 12 hrs. within CLEP CONCENTRATION COURSES, Intern. Coordin. approval, see Kines. Advising Hub for important forms).	4
KI 2023 Foundations of Health Education	3	KI 2023 Foundations of Health Education	3
Kinesiology Core Classes	12	Kinesiology Core Classes	12

EP 2013 Fundamentals of Kinesiology (suggested completion by end of Freshman year)	3	EP 2013 Fundamentals of Kinesiology (suggested completion by end of Freshman year)	3
EP 3233 Anatomical Kinesiology (suggested completion by end of Sophomore year)	3	EP 3233 Anatomical Kinesiology (suggested completion by end of Sophomore year)	3
PE 1000 Play, Fitness and Physical Activity (a 3 hr. course) OR choose 3, 1-hour P.E. activity courses (see MSU Course Catalog for descriptions. PE 1191 is not an option)	3	PE 1000 Play, Fitness and Physical Activity (a 3 hr. course) OR choose 3, 1-hour P.E. activity courses (see MSU Course Catalog for descriptions. PE 1191 is not an option)	3
Choose 1 Kinesiology Core Course Selection below (see MSU Course Catalog for descriptions/options) SS 4003 Philosophy of Sport & Physical Activity SS 4303 Globalization & Sport PE 3163 Sport Psychology EP 3183 Exercise Psychology		Choose 1 Kinesiology Core Course Selection below (see MSU Course Catalog for descriptions/options) SS 4003 Philosophy of Sport & Physical Activity SS 4303 Globalization & Sport PE 3163 Sport Psychology EP 3183 Exercise Psychology	
Concentration Courses	15	Concentration Courses	15
PE 3223 Motor Development & Movement (prereq: BIO 1004)	3	PE 3223 Motor Development & Movement (prereq: BIO 1004)	3
PE 4283 Sport Biomechanics (prereq: BIO 1004 or BIO 3004)	3	PE 4283 Sport Biomechanics (prereq: BIO 1004 or BIO 3004)	3
PE 4853 Motor Learning & Skill Analysis (prereq.: BIO 1004, then PE 3223 Motor Dev.)	3	PE 4853 Motor Learning & Skill Analysis (prereq.: BIO 1004, then PE 3223 Motor Dev.)	3
EP 4143 Aging and Disability (prereq. EP 3304, then EP 4123 Aging & PA)	3	EP 4143 Aging and Disability (prereq. EP 3304, then EP 4123 Aging & PA)	3
EP 4703 Neural Control & Human Movement (prereq: BIO 1004 or BIO 3014, then EP 3643 Appl. Anat. Path)	3	EP 4703 Neural Control & Human Movement (prereq: BIO 1004 or BIO 3014, then EP 3643 Appl. Anat. Path)	3
PE 3223 Motor Development & Movement (prereq: BIO 1004)	3	PE 3223 Motor Development & Movement (prereq: BIO 1004)	3
Kinesiology Approved Electives	15	Kinesiology Approved Electives	15
Coursework must pertain to professional focus area, & consent of advisor is required prior to enrollment. Combination of courses taken must total 15 credit hours		Coursework must pertain to professional focus area, & consent of advisor is required prior to enrollment. Combination of courses taken must total 15 credit hours	
Additional Requirements	11	Additional Requirements	11
BIO 3004 Human Anat. (typically offered Fall only)	4	BIO 3004 Human Anat. (typically offered Fall only)	4
BIO 3014 Human Phys. (typically Spr. only) (prereqs.: BIO 1134 & CH 1213 or BIO 2004 & CH 1043 or equiv.)	4	BIO 3014 Human Phys. (typically Spr. only) (prereqs.: BIO 1134 & CH 1213 or BIO 2004 & CH 1043 or equiv.)	4
KI 2603 Medical Terminology	3	KI 2603 Medical Terminology	3
Choose 1 of the communications-based course below: (see Course Catalog descriptions prior to selection) CO 1003 Fundamentals of Public Speaking CO 1013 Introduction to Communications CO 2253 Interpersonal Communication	3	Choose 1 of the communications-based course below: (see Course Catalog descriptions prior to selection) CO 1003 Fundamentals of Public Speaking CO 1013 Introduction to Communications CO 2253 Interpersonal Communication	3
Choose 1 of the writing-based courses below: (see Course Catalog descriptions prior to selection) EDF 3413 Writing for Thinking (prereq.: Eng. Comp. 1 & 2 or equivalent with C or better & junior standing) MGT 3213 Organizational Communication (prereq.: EN 1113 & junior standing) BIO 3013 Professional Writing for Biologists (prereq.: consent of instructor due to non-Bio. concentration)	3	Choose 1 of the writing-based courses below: (see Course Catalog descriptions prior to selection) EDF 3413 Writing for Thinking (prereq.: Eng. Comp. 1 & 2 or equivalent with C or better & junior standing) MGT 3213 Organizational Communication (prereq.: EN 1113 & junior standing) BIO 3013 Professional Writing for Biologists (prereq.: consent of instructor due to non-Bio. concentration)	3

BIO 3004 Human Anat. (typically offered Fall only)	4	BIO 3004 Human Anat. (typically offered Fall only)	4
BIO 3014 Human Phys. (typically Spr. only) (prereqs.: BIO 1134 & CH 1213 or BIO 2004 & CH 1043 or equiv.)	4	BIO 3014 Human Phys. (typically Spr. only) (prereqs.: BIO 1134 & CH 1213 or BIO 2004 & CH 1043 or equiv.)	4
Total Hours	124	Total Hours	124

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Kinesiology Concentration: Strength and Conditioning	Degree: Bachelor of Science Major: Kinesiology Concentration: Strength and Conditioning
Strength and Conditioning The Strength and Conditioning concentration provide students with the necessary knowledge to incorporate exercise physiology concepts into activates that enhance fitness and performance. This concentration covers everything from the development of plans to enhance fitness in apparently healthy populations to improving performance in elite athletes. Strength and Conditioning takes into consideration a combination of the physiological, biomechanical, and psychological aspects of training in the development of individual and team needs for customized programming. The concentration serves as the foundation for students to become sport scientists, strength and conditioning coaches, personal trainers, and specialists within corporate fitness/wellness programs.	Strength and Conditioning The Strength and Conditioning concentration provide students with the necessary knowledge to incorporate exercise physiology concepts into activates that enhance fitness and performance. This concentration covers everything from the development of plans to enhance fitness in apparently healthy populations to improving performance in elite athletes. Strength and Conditioning takes into consideration a combination of the physiological, biomechanical, and psychological aspects of training in the development of individual and team needs for customized programming. The concentration serves as the foundation for students to become sport scientists, strength and conditioning coaches, personal trainers, and specialists within corporate fitness/wellness programs.

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
ENGLISH (6 hours)		ENGLISH (6 hours)	
EN 1103 English Comp 1 (prereq: ACT English score 17 or above or EN 0103) OR EN 1104 Expanded English Composition I (Prerequisite: Score of 16 or below on the English section of the ACT.)	3	EN 1103 English Comp 1 (prereq.: ACT English score 17 or above or EN 0103) OR EN 1104 Expanded English Composition I (Prerequisite: Score of 16 or below on the English section of the ACT.)	3
EN 1113 English Comp II (prereq: EN 1103 or a final grade of C or higher in EN 1104) OR EN 1173 Accelerated Composition II (Prerequisite: EN 1163 or an ACT sub-score in English of 28 or higher)	3	EN 1113 English Comp 2 (prereq.: English Comp I or Accelerated Comp I) OR EN 1173 Accelerated Comp II (prereq.: Accelerated Comp 1 or ACT English score 28 or higher)	3
FINE ARTS (3 hours)		FINE ARTS (3 hours)	
PE 1323 History & Appreciation of Dance Or other Gen. Ed. Fine Arts (see Gen. Ed. Requirements: Fine Arts)	3	PE 1323 History & Appreciation of Dance Or other Gen. Ed. Fine Arts (see Gen. Ed. Requirements: Fine Arts)	3
MATH (6 hours)		MATH (6 hours)	
MA 1313 College Algebra (prereq.: ACT Math subscore 19 or prereq. grade of C or better in MA	3	MA 1313 College Algebra (prereq.: ACT Math subscore 19 or prereq. grade of C or better in MA	3

0103)		0103)	
ST 2113 Introduction to Statistics (prereq.: ACT Math subscore 24 or a grade of C or better in MA 1313)	3	ST 2113 Introduction to Statistics (prereq.: ACT Math subscore 24 or a grade of C or better in MA 1313)	3
SCIENCES (11 hours): suggested completion before Spring, Sophomore year)		SCIENCES (11 hours): suggested completion before Spring, Sophomore year)	
BIO 1134 Biology 1 OR other Gen. Ed. 4-hr BIO Natural Sci. (see Gen. Ed. Requirements: Natural Science)	4	BIO 1134 Biology 1 OR other Gen. Ed. 4-hr BIO Natural Sci. (see Gen. Ed. Requirements: Natural Science)	4
CH 1213 Chemistry 1 & CH 1211 Investig. in Chem. 1 OR other Gen. Ed. 4-hr CH Natural Sci. (see Gen. Ed. Requirements: Natural Sci.)	4	CH 1213 Chemistry 1 & CH 1211 Investig. in Chem. 1 OR other Gen. Ed. 4-hr CH Natural Sci. (see Gen. Ed. Requirements: Natural Sci.)	4
Natural Science: suggest BIO 1004 (prereq.: any course in bio. sciences) OR other Gen. Ed. Natural Sci. (see General Ed. Requirements: Natural Sci.)	3-4	Natural Science: suggest BIO 1004 (prereq.: any course in bio. sciences) OR other Gen. Ed. Natural Sci. (see General Ed. Requirements: Natural Sci.)	3-4
HUMANITIES (6 hrs)		HUMANITIES (6 hrs)	
Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3	Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3
Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3	Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3
SOCIAL SCIENCES (6 hrs)		SOCIAL SCIENCES (6 hrs)	
PSY 1013 Psychology OR other Gen. Ed. Social/Behavioral Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3	PSY 1013 Psychology OR other Gen. Ed. Social/Behavioral Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3
SO 1003 Intro. to Sociology OR other Gen. Ed. Social/Beh. Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3	SO 1003 Intro. to Sociology OR other Gen. Ed. Social/Beh. Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3
Exercise Science Core	27	Exercise Science Core	27
EP 3304 Exercise Physiology: suggestion completion by end of Sophomore year (prereq.: BIO 1004 Anat. & Phys. OR BIO 3014 Human Phys. & CH 1213 or CH 1043 *BIO 3014 typically offered Spr. only (prereqs. for BIO 3014: BIO 1134 & CH 1213 or BIO 2004 & CH 1043)	4	EP 3304 Exercise Physiology: suggestion completion by end of Sophomore year (prereq.: BIO 1004 Anat. & Phys. OR BIO 3014 Human Phys. & CH 1213 or CH 1043 *BIO 3014 typically offered Spr. only (prereqs. for BIO 3014: BIO 1134 & CH 1213 or BIO 2004 & CH 1043)	4
EP 3643 Applied Anatomy and Pathophysiology (prereq.: BIO 1004 Anat. & Phys. {typically offered Spring only} or BIO 3004 Human Anat. {typically Fall only})	3	EP 3643 Applied Anatomy and Pathophysiology (prereq.: BIO 1004 Anat. & Phys. {typically offered Spring only} or BIO 3004 Human Anat. {typically Fall only})	3
EP 4113 Fitness Programs and Testing Procedures (prereq.: EP 3304)	3	EP 4113 Fitness Programs and Testing Procedures (prereq.: EP 3304)	3
EP 4183 Exercise and Weight Control (prereq.: EP 3304)	3	EP 4183 Exercise and Weight Control (prereq.: EP 3304)	3
EP 4504 Mechanical Analysis of Movement (prereq.: EP3233 Anatomical Kinesiology)	4	EP 4504 Mechanical Analysis of Movement (prereq.: EP3233 Anatomical Kinesiology)	4
EP 4603 Physical Activity Epidemiology (prereq.: EP 3304)	3	EP 4603 Physical Activity Epidemiology (prereq.: EP 3304)	3
EP 4814 Exercise Science Internship (prereq.: senior status, completion of at least 12 hrs. within CLEP CONCENTRATION COURSES, Intern. Coordin. approval, see Kines. Advising Hub for important forms).	4	EP 4814 Exercise Science Internship (prereq.: senior status, completion of at least 12 hrs. within CLEP CONCENTRATION COURSES, Intern. Coordin. approval, see Kines. Advising Hub for important forms).	4
KI 2023 Foundations of Health Education	3	KI 2023 Foundations of Health Education	3
Kinesiology Core Classes	12	Kinesiology Core Classes	12
EP 2013 Fundamentals of Kinesiology (suggested completion by end of Freshman year)	3	EP 2013 Fundamentals of Kinesiology (suggested completion by end of Freshman year)	

EP 3233 Anatomical Kinesiology (suggested completion by end of Sophomore year)	3	EP 3233 Anatomical Kinesiology (suggested completion by end of Sophomore year)	
PE 1000 Play, Fitness and Physical Activity (a 3 hr. course) OR choose 3, 1-hour P.E. activity courses (see MSU Course Catalog for descriptions. PE 1191 is not an option)	3	PE 1000 Play, Fitness and Physical Activity (a 3 hr. course) OR choose 3, 1-hour P.E. activity courses (see MSU Course Catalog for descriptions. PE 1191 is not an option)	
Choose 1 Kinesiology Core Course Selection below (see MSU Course Catalog for descriptions/options) SS 4003 Philosophy of Sport & Physical Activity SS 4303 Globalization & Sport PE 3163 Sport Psychology EP 3183 Exercise Psychology	3	Choose 1 Kinesiology Core Course Selection below (see MSU Course Catalog for descriptions/options) SS 4003 Philosophy of Sport & Physical Activity SS 4303 Globalization & Sport PE 3163 Sport Psychology EP 3183 Exercise Psychology	
Concentration Courses	15	Concentration Courses	15
FNH 4223 Sports Nutrition		FNH 4223 Sports Nutrition	
PE 3313 Sport Physiology		PE 3313 Sport Physiology	
EP 4153 Training Techniques for Exercise and Sport		EP 4153 Training Techniques for Exercise and Sport	
PE 4283 Sport Biomechanics		PE 4283 Sport Biomechanics	
PE 4533 Developing Coaching Expertise		PE 4533 Developing Coaching Expertise	
Electives (See advisor for approved list of courses)	15	Electives (See advisor for approved list of courses)	15
Additional Requirements	11	Additional Requirements	11
BIO 3004 Human Anatomy (or equivalent Gen Ed Bio/Lab Science course)		BIO 3004 Human Anatomy (or equivalent Gen Ed Bio/Lab Science course)	
BIO 3014 Human Physiology (or equivalent Gen Ed Bio/Lab Science course)		BIO 3014 Human Physiology (or equivalent Gen Ed Bio/Lab Science course)	
KI 2603 Medical Terminology		KI 2603 Medical Terminology	
Oral Communication Requirement	3	Oral Communication Requirement	3
CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication or CO 2253 Fundamentals of Interpersonal Communication		CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication or CO 2253 Fundamentals of Interpersonal Communication	
Writing Requirement	3	Writing Requirement	3
EDF 3413 Writing for Thinking or MGT 3213 Organizational Communications or BIO 3013 Professional Writing for Biologists		EDF 3413 Writing for Thinking or MGT 3213 Organizational Communications or BIO 3013 Professional Writing for Biologists	
Total Hours	124	Total Hours	124

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Kinesiology Concentration: Clinical Exercise Physiology	Degree: Bachelor of Science Major: Kinesiology Concentration: Clinical Exercise Physiology

Clinical Exercise Physiology Concentration (CLEP) The clinical exercise physiology concentration is designed as a professional preparation program of study that enables students to work in clinical settings as exercise physiologists in cardiac and pulmonary rehabilitation, or other clinical rehabilitation settings, such as those for individuals with diabetes, orthopedic limitations, arthritis, cancer, osteoporosis, renal failure, obesity, and in programs dealing with issues of aging. The clinical exercise physiology concentration also provides students with the necessary background to pursue graduate health professions, such as physical or occupational therapy, physician assistant studies, medicine, or other graduate level educational programs.		Clinical Exercise Physiology Concentration (CLEP) The clinical exercise physiology concentration is designed as a professional preparation program of study that enables students to work in clinical settings as exercise physiologists in cardiac and pulmonary rehabilitation, or other clinical rehabilitation settings, such as those for individuals with diabetes, orthopedic limitations, arthritis, cancer, osteoporosis, renal failure, obesity, and in programs dealing with issues of aging. The clinical exercise physiology concentration also provides students with the necessary background to pursue graduate health professions, such as physical or occupational therapy, physician assistant studies, medicine, or other graduate level educational programs.	
CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
EN 1103 English Comp 1 (prereq.: ACT English score 17 or above or EN 0103) OR EN 1104 Expanded English Composition I (Prerequisite: Score of 16 or below on the English section of the ACT.)	3	EN 1103 English Comp 1 (prereq.: ACT English score 17 or above or EN 0103) OR EN 1104 Expanded English Composition I (Prerequisite: Score of 16 or below on the English section of the ACT.)	3
EN 1113 English Comp II (prereq: EN 1103 or a final grade of C or higher in EN 1104) OR EN 1173 Accelerated Composition II (Prerequisite: EN 1163 or an ACT sub-score in English of 28 or higher)	3	EN 1113 English Comp II (prereq: EN 1103 or a final grade of C or higher in EN 1104) OR EN 1173 Accelerated Composition II (Prerequisite: EN 1163 or an ACT sub-score in English of 28 or higher)	3
FINE ARTS (3 hours)		FINE ARTS (3 hours)	
PE 1323 History & Appreciation of Dance Or other Gen. Ed. Fine Arts (see Gen. Ed. Requirements: Fine Arts)	3	PE 1323 History & Appreciation of Dance Or other Gen. Ed. Fine Arts (see Gen. Ed. Requirements: Fine Arts)	3
MATH (6 hours)		MATH (6 hours)	
MA 1313 College Algebra (prereq.: ACT Math subscore 19 or prereq. grade of C or better in MA 0103)	3	MA 1313 College Algebra (prereq.: ACT Math subscore 19 or prereq. grade of C or better in MA 0103)	3
ST 2113 Introduction to Statistics (prereq.: ACT Math subscore 24 or a grade of C or better in MA 1313)	3	ST 2113 Introduction to Statistics (prereq.: ACT Math subscore 24 or a grade of C or better in MA 1313)	3
SCIENCES (11 hours): suggested completion before Spring, Sophomore year)		SCIENCES (11 hours): suggested completion before Spring, Sophomore year)	
BIO 1134 Biology 1 OR other Gen. Ed. 4-hr BIO Natural Sci. (see Gen. Ed. Requirements: Natural Science)	4	BIO 1134 Biology 1 OR other Gen. Ed. 4-hr BIO Natural Sci. (see Gen. Ed. Requirements: Natural Science)	4
CH 1213 Chemistry 1 & CH 1211 Investig. in Chem. 1 OR other Gen. Ed. 4-hr CH Natural Sci. (see Gen. Ed. Requirements: Natural Sci.)	4	CH 1213 Chemistry 1 & CH 1211 Investig. in Chem. 1 OR other Gen. Ed. 4-hr CH Natural Sci. (see Gen. Ed. Requirements: Natural Sci.)	4
Natural Science: suggest BIO 1004 (prereq.: any course in bio. sciences) OR other Gen. Ed. Natural Sci. (see General Ed. Requirements: Natural Sci.)	3-4	Natural Science: suggest BIO 1004 (prereq.: any course in bio. sciences) OR other Gen. Ed. Natural Sci. (see General Ed. Requirements: Natural Sci.)	3-4
HUMANITIES (6 hrs)		HUMANITIES (6 hrs)	
Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3	Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3

Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3	Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3
SOCIAL SCIENCES (6 hrs)		SOCIAL SCIENCES (6 hrs)	
PSY 1013 Psychology OR other Gen. Ed. Social/Behavioral Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3	PSY 1013 Psychology OR other Gen. Ed. Social/Behavioral Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3
SO 1003 Intro. to Sociology OR other Gen. Ed. Social/Beh. Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3	SO 1003 Intro. to Sociology OR other Gen. Ed. Social/Beh. Sci. (see Gen. Ed. Requirements: Social/Beh. Sci.)	3
EN 1103 English Comp 1 (prereq.: ACT English score 17 or above or EN 0103) OR EN 1163 Accelerated Comp 1 (prereq.: ACT English score 29 or above)	3	EN 1103 English Comp 1 (prereq.: ACT English score 17 or above or EN 0103) OR EN 1163 Accelerated Comp 1 (prereq.: ACT English score 29 or above)	3
Exercise Science Core	27	Exercise Science Core	27
EP 3304 Exercise Physiology: suggestion completion by end of Sophomore year (prereq.: BIO 1004 Anat. & Phys. OR BIO 3014 Human Phys. & CH 1213 or CH 1043 *BIO 3014 typically offered Spr. only (prereqs. for BIO 3014: BIO 1134 & CH 1213 or BIO 2004 & CH 1043)	4	EP 3304 Exercise Physiology: suggestion completion by end of Sophomore year (prereq.: BIO 1004 Anat. & Phys. OR BIO 3014 Human Phys. & CH 1213 or CH 1043 *BIO 3014 typically offered Spr. only (prereqs. for BIO 3014: BIO 1134 & CH 1213 or BIO 2004 & CH 1043)	4
EP 3643 Applied Anatomy and Pathophysiology (prereq.: BIO 1004 Anat. & Phys. {typically offered Spring only} or BIO 3004 Human Anat. {typically Fall only})	3	EP 3643 Applied Anatomy and Pathophysiology (prereq.: BIO 1004 Anat. & Phys. {typically offered Spring only} or BIO 3004 Human Anat. {typically Fall only})	3
EP 4113 Fitness Programs and Testing Procedures (prereq.: EP 3304)	3	EP 4113 Fitness Programs and Testing Procedures (prereq.: EP 3304)	3
EP 4183 Exercise and Weight Control (prereq.: EP 3304)	3	EP 4183 Exercise and Weight Control (prereq.: EP 3304)	3
EP 4504 Mechanical Analysis of Movement (prereq.: EP3233 Anatomical Kinesiology)	4	EP 4504 Mechanical Analysis of Movement (prereq.: EP3233 Anatomical Kinesiology)	4
EP 4603 Physical Activity Epidemiology (prereq.: EP 3304)	3	EP 4603 Physical Activity Epidemiology (prereq.: EP 3304)	3
EP 4814 Exercise Science Internship (prereq.: senior status, completion of at least 12 hrs. within CLEP CONCENTRATION COURSES, Intern. Coordin. approval, see Kines. Advising Hub for important forms).	4	EP 4814 Exercise Science Internship (prereq.: senior status, completion of at least 12 hrs. within CLEP CONCENTRATION COURSES, Intern. Coordin. approval, see Kines. Advising Hub for important forms).	4
KI 2023 Foundations of Health Education	3	KI 2023 Foundations of Health Education	3
Kinesiology Core Classes	12	Kinesiology Core Classes	12
PE 1000 Play, Fitness & Physical Activity (or any 3 PE activity courses)		PE 1000 Play, Fitness & Physical Activity (or any 3 PE activity courses)	
SS 4003 Philosophy of Sport & Physical Activity or SS 4303 Globalization and Sport or PE 3163 Sport Psychology or EP 3183 Exercise Psychology		SS 4003 Philosophy of Sport & Physical Activity or SS 4303 Globalization and Sport or PE 3163 Sport Psychology or EP 3183 Exercise Psychology	
EP 2013 Fundamentals of Kinesiology		EP 2013 Fundamentals of Kinesiology	
EP 3233 Anatomical Kinesiology		EP 3233 Anatomical Kinesiology	
Concentration Courses	15	Concentration Courses	15
EP 3803 Advanced Exercise Physiology		EP 3803 Advanced Exercise Physiology	
EP 3613 Exercise Electrocardiography		EP 3613 Exercise Electrocardiography	
EP 4123 Aging and Physical Activity		EP 4123 Aging and Physical Activity	
EP 4133 Exercise Programs for Clinical Populations		EP 4133 Exercise Programs for Clinical Populations	
EP 4143 Aging and Disability		EP 4143 Aging and Disability	

Electives (See advisor for approved list of courses)	15	Electives (See advisor for approved list of courses)	15
Additional Requirements	11	Additional Requirements	11
BIO 3004 Human Anatomy (or equivalent Gen Ed Bio/Lab Science course)		BIO 3004 Human Anatomy (or equivalent Gen Ed Bio/Lab Science course)	
BIO 3014 Human Physiology (or equivalent Gen Ed Bio/Lab Science course)		BIO 3014 Human Physiology (or equivalent Gen Ed Bio/Lab Science course)	
KI 2603 Medical Terminology		KI 2603 Medical Terminology	
Oral Communication Requirement	3	Oral Communication Requirement	3
CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication or CO 2253 Fundamentals of Interpersonal Communication		CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication or CO 2253 Fundamentals of Interpersonal Communication	
Writing Requirement	3	Writing Requirement	3
EDF 3413 Writing for Thinking or MGT 3213 Organizational Communications or BIO 3013 Professional Writing for Biologists		EDF 3413 Writing for Thinking or MGT 3213 Organizational Communications or BIO 3013 Professional Writing for Biologists	
Total Hours	124	Total Hours	124

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Kinesiology Concentration: Sport Administration	Degree: Bachelor of Science Major: Kinesiology Concentration: Sport Administration
Sport Administration Concentration (SPAD) The Sport Administration concentration provides students with knowledge and skills necessary for careers in the sport industry. A concentration in Sport Administration helps prepare students to work in such fields as sport marketing & promotions, sporting event and/or facility management & operations, sport communication & media relations, and other administrative areas at the professional, collegiate, and recreational levels of the industry. The program seeks to combine classroom education with hands-on experience, as all students will complete an internship in the sport industry prior to graduation. Students choosing a concentration in Sport Administration choose either the Business, Communication, or Foreign Language cognate field.	Sport Administration Concentration (SPAD) The Sport Administration concentration provides students with knowledge and skills necessary for careers in the sport industry. A concentration in Sport Administration helps prepare students to work in such fields as sport marketing & promotions, sporting event and/or facility management & operations, sport communication & media relations, and other administrative areas at the professional, collegiate, and recreational levels of the industry. The program seeks to combine classroom education with hands-on experience, as all students will complete an internship in the sport industry prior to graduation. Students choosing a concentration in Sport Administration choose either the Business, Communication, or Foreign Language cognate field.

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English	6	English	6
ENGLISH (6 hours)		ENGLISH (6 hours)	
EN 1103 English Comp 1 (prereq.: ACT English score 17 or above or EN 0103) OR EN 1104 Expanded English Composition I (Prerequisite: Score of 16 or below on the English section of the ACT.)	3	EN 1103 English Comp 1 (prereq.: ACT English score 17 or above or EN 0103) OR EN 1104 Expanded English Composition I (Prerequisite: Score of 16 or below on the English section of the	3

		ACT.)	
EN 1113 English Comp II (prereq: EN 1103 or a final grade of C or higher in EN 1104) OR EN 1173 Accelerated Composition II (Prerequisite: EN 1163 or an ACT sub-score in English of 28 or higher)	3	EN 1113 English Comp II (prereq: EN 1103 or a final grade of C or higher in EN 1104) OR EN 1173 Accelerated Composition II (Prerequisite: EN 1163 or an ACT sub-score in English of 28 or higher)	3
FINE ARTS (3 hours)		FINE ARTS (3 hours)	
PE 1323 History & Appreciation of Dance Or other Gen. Ed. Fine Arts (see Gen. Ed. Requirements: Fine Arts)	3	PE 1323 History & Appreciation of Dance Or other Gen. Ed. Fine Arts (see Gen. Ed. Requirements: Fine Arts)	3
MATH (6 hours)		MATH (6 hours)	
MA 1313 College Algebra (prereq: ACT Math subscore 19 or prereq. grade of C or better in MA 0103)	3	MA 1313 College Algebra (prereq: ACT Math subscore 19 or prereq. grade of C or better in MA 0103)	3
MA 1613 Calculus for Business & Life Science (prereq.: ACT Math subscore 24 or a grade of C or better in MA 1313)	3	MA 1613 Calculus for Business & Life Science (prereq.: ACT Math subscore 24 or a grade of C or better in MA 1313)	3
SCIENCES (10 hours):		SCIENCES (10 hours):	
BIO 1004 Anatomy & Physiology (usually taught in the Spring)	4	BIO 1004 Anatomy & Physiology (usually taught in the Spring)	4
Approved Lab science (see Gen. Ed. Requirements: Natural Science = must have lab)	3-4	Approved Lab science (see Gen. Ed. Requirements: Natural Science = must have lab)	3-4
Approved Natural Science (see Gen. Ed. Requirements: Natural Science)	3-4	Approved Natural Science (see Gen. Ed. Requirements: Natural Science)	3-4
HUMANITIES (6 hrs)		HUMANITIES (6 hrs)	
Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3	Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3
Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3	Choose 1 Gen. Ed. Humanities (see Gen. Ed. Requirements: Humanities)	3
SOCIAL SCIENCES (6 hrs)		SOCIAL SCIENCES (6 hrs)	
SO 1003 Intro to Sociology	3	SO 1003 Intro to Sociology	3
EC 2113 Macroeconomics	3	EC 2113 Macroeconomics	3
Kinesiology Core Classes	12	Kinesiology Core Classes	12
PE 1000 Play, Fitness & Physical Activity (or any 3 PE activity courses)		PE 1000 Play, Fitness & Physical Activity (or any 3 PE activity courses)	
SS 4003 Philosophy of Sport & Physical Activity or SS 4303 Globalization and Sport or PE 3163 Sport Psychology or EP 3183 Exercise Psychology		SS 4003 Philosophy of Sport & Physical Activity or SS 4303 Globalization and Sport or PE 3163 Sport Psychology or EP 3183 Exercise Psychology	
EP 2013 Fundamentals of Kinesiology		EP 2013 Fundamentals of Kinesiology	
EP 3233 Anatomical Kinesiology		EP 3233 Anatomical Kinesiology	
Concentration Courses	30	Concentration Courses	30
SS 2003 Foundations of Sport Mgmt	3	SS 2003 Foundations of Sport Mgmt	3
SS 2103 Sport Careers and Practicum (Prerequisite: SS 2003)	3	SS 2103 Sport Careers and Practicum (Prerequisite: SS 2003)	3
SS 3103 Sport Sponsorship	3	SS 3103 Sport Sponsorship	3
SS 3203 Sport Law	3	SS 3203 Sport Law	3
SS 3403 Facil & Event Mgmt	3	SS 3403 Facil & Event Mgmt	3
SS 4103 Ethics in Sport Mgmt	3	SS 4103 Ethics in Sport Mgmt	3
SS 4203 Funding of Sport	3	SS 4203 Funding of Sport	3

SS 4803 Seminar in Sports Studies (Prerequisite: Senior standing)	3	SS 4803 Seminar in Sports Studies (Prerequisite: Senior standing)	3
Concentration Electives (choose 5 courses from this approved list)	15	Concentration Electives	15
SS 3303 Communication Management in Sport	3	SS 3303 Communication Management in Sport	3
SS 3503 Sport and Rec Leadership (Prerequisite: SS 2003)	3	SS 3503 Sport and Rec Leadership (Prerequisite: SS 2003)	3
SS 3603 Program Planning-Sport & Rec (Prerequisite: SS 2003)	3	SS 3603 Program Planning-Sport & Rec (Prerequisite: SS 2003)	3
SS 3703 Contemporary Issues in Intercollegiate Athletics (Prerequisite: SS 2003)	3	SS 3703 Contemporary Issues in Intercollegiate Athletics (Prerequisite: SS 2003)	3
SS 3903 Anct.Medi. Sport History	3	SS 3903 Anct.Medi. Sport History	3
SS 4000 Directed Individual Study	3	SS 4000 Directed Individual Study	3
SS 4003 Phil. Sport & Physical Act.	3	SS 4003 Phil. Sport & Physical Act.	3
SS 4403 Gender & Sport	3	SS 4403 Gender & Sport	3
SS 4503 Sport Promotion & Sales Mgmt (Prerequisite: SS 3103)	3	SS 4503 Sport Promotion & Sales Mgmt (Prerequisite: SS 3103)	3
PE 3163 Sport Psychololgy	3	PE 3163 Sport Psychololgy	3
PE 3313 Sport Physiology (Prerequisite: BIO 1004 or BIO 3004)	3	PE 3313 Sport Physiology (Prerequisite: BIO 1004 or BIO 3004)	3
PE 4283 Sport Biomechanics (Prerequisite: BIO 1004 or BIO 3004)	3	PE 4283 Sport Biomechanics (Prerequisite: BIO 1004 or BIO 3004)	3
KI 2213 Emergency Health Care	3	KI 2213 Emergency Health Care	3
SO 4333 Sociology of Sports (Prerequisite: SO 1003 and Junior standing)	3	SO 4333 Sociology of Sports (Prerequisite: SO 1003 and Junior standing)	3
Cognate Courses Choose one of the following cognates to complete the concentration requirements:	24-26	Cognate Courses Choose one of the following cognates to complete the concentration requirements: 24-26	
--Business	25	--Business	25
ACC 2013 Principles of Financial Accounting ACC 2023 Principles of Managerial Accounting MA 2113 Introduction to Statistics EC 2123 Principles of Microeconomics MKT 3013 Principles of Marketing FIN 3113 Financial Systems FIN 3123 Financial Management MGT 3114		ACC 2013 Principles of Financial Accounting ACC 2023 Principles of Managerial Accounting MA 2113 Introduction to Statistics EC 2123 Principles of Microeconomics MKT 3013 Principles of Marketing FIN 3113 Financial Systems FIN 3123 Financial Management MGT 3114 7 hours of Free Electives	
Free Electives for the Business Cognate	7	Free Electives for the Business Cognate	7
--Communication	24	--Communication	24
CO 1223 Introduction to Communication Theory CO 1403 Introduction to the Mass Media CO 2333 Television Production CO 2413 Introduction to News Writing and Reporting CO 3313 News Writing for the Electronic Media CO 3423 Feature Writing CO 3713 Digital Communication CO 3803 Principles of Public Relations		CO 1223 Introduction to Communication Theory CO 1403 Introduction to the Mass Media CO 2333 Television Production CO 2413 Introduction to News Writing and Reporting CO 3313 News Writing for the Electronic Media CO 3423 Feature Writing CO 3713 Digital Communication CO 3803 Principles of Public Relations	
Free Electives for the Communication Cognate	8	Free Electives for the Communication Cognate	8
--Foreign Language	26	--Foreign Language	26

FLS 1113 Spanish I or FLF 1113 French I or FLG 1113 German I FLS 1123 Spanish II or FLF 1123 French II or FLG 1123 German II FLS 2133 Spanish III or FLF 2133 French III or FLG 2133 German III FLS 2143 Spanish IV or FLF 2143 French IV or FLG 2143 German IV FLS 3113 & FLS 3111 Advanced Spanish Composition and Advanced Spanish Laboratory or FLF 3114 Advanced French Composition or FLG 3114 Advanced German Composition FLS 3233 & FLS 3121 Advanced Spanish Conversation and Advanced Spanish Conversation Practicum or FLF 3124 Advanced French Conversation or FLG 3124 Advanced German Conversation FLS 3143 Hispanic Civilization or FLF 3143 French Civilization or FLG 3143 German Civilization FLS 3313 Economics of the Spanish-Speaking World or FLF 3313 Business French I or FLG 3313 Business German I		FLS 1113 Spanish I or FLF 1113 French I or FLG 1113 German I FLS 1123 Spanish II or FLF 1123 French II or FLG 1123 German II FLS 2133 Spanish III or FLF 2133 French III or FLG 2133 German III FLS 2143 Spanish IV or FLF 2143 French IV or FLG 2143 German IV FLS 3113 & FLS 3111 Advanced Spanish Composition and Advanced Spanish Laboratory or FLF 3114 Advanced French Composition or FLG 3114 Advanced German Composition FLS 3233 & FLS 3121 Advanced Spanish Conversation and Advanced Spanish Conversation Practicum or FLF 3124 Advanced French Conversation or FLG 3124 Advanced German Conversation FLS 3143 Hispanic Civilization or FLF 3143 French Civilization or FLG 3143 German Civilization FLS 3313 Economics of the Spanish-Speaking World or FLF 3313 Business French I or FLG 3313 Business German I	
Free Electives for the Foreign Language Cognate	6	Free Electives for the Foreign Language Cognate	6
Total Hours	124	Total Hours	124

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Kinesiology Concentration: Physical Education and Coaching	Degree: Bachelor of Science Major: Kinesiology Concentration: Physical Education and Coaching
Physical Education and Coaching Concentration (PECO) Major Advisors: J.J. Chen, *Debby Funderburk*, *Elizabeth Palmer*, Brad Vickers, and *Glen Young*. The physical education and coaching concentration require *124* semester hours of prescribed courses to complete the Bachelor of Science in Kinesiology. The curriculum is designed to meet the need of students interested in becoming physical education	**Physical Education and Coaching Concentration (PECO)** Major Advisors: J.J. Chen, **Kristy Gourley**, Brad Vickers, and **Matthew Rye** The physical education and coaching concentration require **121** semester hours of prescribed courses to complete the Bachelor of Science in Kinesiology. The curriculum is designed to meet the need of students interested in becoming physical education teachers in

teachers in public and private schools. The teaching block of courses must be included in the on-campus requirement of 32 semester hours of junior and senior courses. Students who complete the program will be eligible for teacher licensure by the Mississippi Department of Education.	public and private schools. The teaching block of courses must be included in the on-campus requirement of 32 semester hours of junior and senior courses. Students who complete the program will be eligible for teacher licensure by the Mississippi Department of Education.

CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English	6	English	6
EN 1103 English Comp I or EN 1104 Expanded English Composition I		EN 1103 English Comp I or EN 1104 Expanded English Composition I	
EN 1113 English Comp II or EN 1173 Accelerated Comp II.		EN 1113 English Comp II or EN 1173 Accelerated Comp II.	
Fine Arts	3	Fine Arts	3
PE 1323 History and Appreciation of Dance (or other approved Fine Art Elective)		PE 1323 History and Appreciation of Dance (or other approved Fine Art Elective)	
Natural Sciences	10	Natural Sciences	10
BIO 1023 Plants and Humans (or any core approved lab science		BIO 1023 Plants and Humans (or any core approved lab science	
BIO 1004 Anatomy and Physiology		BIO 1004 Anatomy and Physiology	
BIO 1123 Animal Biology (or any core approved lab science)		BIO 1123 Animal Biology (or any core approved lab science)	
Math	6	Math	6
MA 1313 College Algebra (or higher)		MA 1313 College Algebra (or higher)	
ST 2113 Introduction to Statistics (or math above MA 1313		ST 2113 Introduction to Statistics (or math above MA 1313	
Humanities	6	Humanities	6
EN 2203 Introduction to Literature (or other approved humanities course) or EN 2243 American Literature Before 1865 or EN 2253 American Literature after 1865		EN 2203 Introduction to Literature (or other approved humanities course) or EN 2243 American Literature Before 1865 or EN 2253 American Literature after 1865	
HI 1063 Early U.S. History (or other approved humanities course) or HI 1073 Modern U.S. History		HI 1063 Early U.S. History (or other approved humanities course) or HI 1073 Modern U.S. History	
Social/Behavioral Sciences	6	Social/Behavioral Sciences	6
PSY 1013 General Psychology		PSY 1013 General Psychology	
SO 1203 Sociology of Families (or approved General Education course)		SO 1203 Sociology of Families (or approved General Education course)	
Major Core Courses	31	Major Core Courses	31
EP 3304 Exercise Physiology		EP 3304 Exercise Physiology	
PE 1243 Methods of Teaching Games and Sports		PE 1243 Methods of Teaching Games and Sports	
PE 1253 Methods of Teaching Lifetime Activities		PE 1253 Methods of Teaching Lifetime Activities	
PE 1263 Methods of Teaching Rhythms		PE 1263 Methods of Teaching Rhythms	
PE 3133 Adapted Physical Education		PE 3133 Adapted Physical Education	
PE 3153 Methods of Elementary Physical Education		PE 3153 Methods of Elementary Physical Education	
PE 3223 Motor Development and Movement		PE 3223 Motor Development and Movement	
PE 3533 Coaching Sports		PE 3533 Coaching Sports	
PE 4533Developing Coaching Expertise		PE 4533Developing Coaching Expertise	
PE 4283 Sport Biomechanics		PE 4283 Sport Biomechanics	
Kinesiology Core Course	11	Kinesiology Core Course	11

PE 1000 Play, Fitness & Physical Activity (or any 2 PE activity courses)		PE 1000 Play, Fitness & Physical Activity (or any 2 PE activity courses)	
PE 3163 Sport Psychology		PE 3163 Sport Psychology	
EP 2013 Fundamentals of Kinesiology		EP 2013 Fundamentals of Kinesiology	
EP 3233 Anatomical Kinesiology		EP 3233 Anatomical Kinesiology	
Select one of the following:	3	Select one of the following:	3
KI 3273 Athletic Training		KI 3273 Athletic Training	
KI 2213 Emergency Health Care		KI 2213 Emergency Health Care	
Professional Education Courses	6	Professional Education Courses	6
EDF 3333 Social Foundations of Education		EDF 3333 Social Foundations of Education	
EDX 3213 Individualizing Instruction for Exceptional Children		EDX 3213 Individualizing Instruction for Exceptional Children	
Courses Required for Admission into Teacher Ed	*21*	Courses Required for Admission into Teacher Ed	**18**
PE 4163 Principles and Methods of Secondary School Health and Physical Education		PE 4163 Principles and Methods of Secondary School Health and Physical Education	
PE 4173 Tests and Measurements in Health and Physical Education		PE 4173 Tests and Measurements in Health and Physical Education	
PE 4853 Motor Learning and Skill Analysis		PE 4853 Motor Learning and Skill Analysis	
PE 4883 School Health Education		PE 4883 School Health Education	
EPY 3143 Human Development and Learning Strategies in Education		EPY 3143 Human Development and Learning Strategies in Education	
EPY 3253 Evaluating Learning			
EDF 4243 Planning for the Diversity of Learners		**TECH 4763 Digital Tools for 21st Century Teaching and Learning**	
Teaching Internship	15	Teaching Internship	12
PE 4873 Professional Classroom Management Seminar in Physical Education and Athletics		PE 4873 Professional Classroom Management Seminar in Physical Education and Athletics	
PE 4886 Teaching Internship in Physical Education		PE 4886 Teaching Internship in Physical Education	
PE 4896 Teaching Internship in Physical Education		PE 4896 Teaching Internship in Physical Education	
Total Hours	*124*	Total Hours	**121**

3. **Justification and Outcomes**
The curriculum committee of the Division of Sport Studies met to discuss the addition of TECH4763, and the deletion of EPY3253 and EDF4243.

These changes would decrease the curriculum from 124 to 121 hours, but it will significantly enhance the quality of the curriculum at the same time. EPY3253 and EDF4243 are no longer being offered and thus the needed deletion. PE 4173 already achieves many of the objectives from EPY3253 and will include more of those objectives in the future. The objectives in EDF4243 will be included in a myriad of courses already included in the PECO curriculum (PE1243, PE4163, PE4533, PE4873, EDF3333). The Mississippi Department of Education (MDE) is expected to increase the number of undergraduate technology hours completed, and the addition of TECH4763 will preemptively meet that need. This program will continue to meet local, state, regional, and national educational and curricular needs.

1. Will this Program change meet local, state, regional, and national educational and cultural needs?
Yes. This change will enhance the curriculum by increasing technology hours while eliminating courses no longer being offered, and that are already covered in other courses.

2. Will this program change result in a duplication in the system?
No.

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

No. However, this program change will allow us to maintain an already diverse student population by allowing them to graduate on time.

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

No. Our students will maintain the current high level of potential placement.

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

No. This change will allow our student to maintain the current salary level and graduate on time.

Learning outcomes: Students will gain more experience in technology.

Proposed 4-Letter Abbreviation

NO CHANGES

Effective Date – Fall 2023

MISSISSIPPI STATE UNIVERSITY

DEPARTMENT OF KINESIOLOGY
P.O. Box 6186
216 McCarthy Gym
Mississippi State, MS 39762
P. 662.325.2963
F. 662.325.4525
www.kinesiology.msstate.edu

March 3, 2022

Dr. Stanley P. Brown
Head, Department of Kinesiology

Dear Dr. Brown:

The curriculum committee of the Division of Sport Studies met to discuss the addition of TECH4763, and the deletion of EPY3253 and EDF4243.

These changes would decrease the curriculum from 124 to 121 hours, but it will significantly enhance the quality of the curriculum at the same time. EPY3253 and EDF4243 are no longer being offered or rarely offered and thus the needed deletion. PE 4173 already achieves many of the objectives from EPY3253 and will include more of those objectives in the future. The objectives in EDF4243 will be included in a myriad of courses already included in the PECO curriculum (PE1243, PE4163, PE4533, PE4873, EDF3333). The Mississippi Department of Education (MDE) is expected to increase the number of undergraduate technology hours completed, and the addition of TECH4763 will preemptively meet that need. We ask that these changes be taken to the Box Council of the College of Education and from there to the UCCC.

Sincerely,

Dr. Brad Vickers
Sport Studies Division Coordinator
Department of Kinesiology
Mississippi State University

Sport Studies Curriculum Committee:

Dr. Brad Vickers
Dr. Harish Chander — Harish Chander
Dr. JJ Chen
Dr. Ben Wax
Dr. Younghan Lee
Dr. Zach Gillen
Dr. Zhujun Pan
Mr. Matthew Rye

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF EDUCATION
Department of Instructional Systems
and Workforce Development
P.O. Box 9730
108 Herbert Street
100 Industrial Education Building
Mississippi State, MS 39762
P. 662.325.2281
F. 662.325.7599
iswd.msstate.edu

April 14, 2022

Dr. Brad Vickers
Sport Studies Division Coordinator
Department of Kinesiology
Mississippi State University

The Department of Instructional Systems and Workforce Development at Mississippi State University fully supports the efforts of the Department of Kinesiology and Sport Studies to integrate technology into their curriculum by requiring TECH4763 as a part of their Physical Education and Coaching Curriculum.

We look forward to working with the students from the Kinesiology in the coming semesters.

Best,

Lessell M Bray

Lessell M. Bray, Ph.D.
Department Head & Associate Professor

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, along with all required copies, to UCCC, Garner, Room 279, (Mail Stop 9702).

College or School: Bagley College of Engineering **Department:** Ag & Biological Engineering

Contact Person: Steve Elder **Mail Stop:** 9632 **E-mail:** selder@abe.msstate.edu

Nature of Change: Degree modification **Date Initiated:** 2/6/2023 **Effective Date:** Fall '23

New or Current Degree Program Name: Biomedical Engineering

Summary of Proposed Changes:

In the new curriculum, the introductory courses have been modified and expanded to two credit hours; some previously required courses have been replaced by electives, which provides the opportunity to emphasize in an area of interest. The increased flexibility will also facilitate course scheduling.

Approved by:	Date:
Department Head	2/7/23
Chair, College or School Curriculum Committee	3/9/23
Kari Babski-Reeves for Jason Ketih Digitally signed by Kari Babski-Reeves for Jason Ketih Date: 2023.03.10 16:51:19 -06'00' Dean, College or School	3/10/2023
Chair, University Committee on Courses & Curricula	4/19/23
Chair, Graduate Council (if applicable)	
Chair, Deans Council	May 24, 2023

IHL Action Required

SACS Letter Sent

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, along with all required copies, to UCCC, Garner, Room 279, (Mail Stop 9702).

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Summary of Proposed Changes:

In the new curriculum, the introductory courses have been modified and expanded to two credit hours; some previously required courses have been replaced by electives, which provides the opportunity to emphasize in an area of interest. The increased flexibility will also facilitate course scheduling.

Approved by: Date:

J. Alex Thomasson Digitally signed by J. Alex Thomasson Date: 2023.02.07 11:48:12 -06'00' 2/7/23
Department Head

Chair, College or School Curriculum Committee

Dean, College or School

Chair, University Committee on Courses & Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

Dana Peruski - Acad Grad 3/8/23

IHL Action Required

SACS Letter Sent

1. CATALOG DESCRIPTION

See Outline Chart below.

2. DEGREE MODIFICATION OUTLINE CHART

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Bachelor of Science Major: Biomedical Engineering Concentration:		Degree: Bachelor of Science Major: Biomedical Engineering Concentration:	
Biomedical Engineering is a growing interdisciplinary field of engineering that integrates engineering and life sciences to solve problems associated with the human body and human health. The curriculum is built on a core of fundamental math/physics/engineering courses which is similar across all engineering disciplines. It is distinguished by a wide range of life science courses and specialized biomedical engineering courses such as computational modeling, biomechanics, biomaterials, and bioinstrumentation. The curriculum also includes a two-semester capstone design course. It is designed to comply with current requirements for ABET accreditation. Apart from preparing students to work in biomedical industry, the B.S. in Biomedical Engineering is an excellent foundation for graduate study in many fields, including further study of biomedical engineering. It is also good preparation for entry into professional schools, including medical school, dental school, veterinary school, and law school.		Biomedical Engineering is a growing interdisciplinary field of engineering that integrates engineering and life sciences to solve problems associated with the human body and human health. The curriculum is built on a core of fundamental math/physics/engineering courses which is similar across all engineering disciplines. It is distinguished by a wide range of life science courses and specialized biomedical engineering courses such as computational modeling, biomechanics, biomaterials, and bioinstrumentation. The curriculum also includes a two-semester capstone design course. It is designed to comply with current requirements for ABET accreditation. Apart from preparing students to work in biomedical industry, the B.S. in Biomedical Engineering is an excellent foundation for graduate study in many fields, including further study of biomedical engineering. It is also good preparation for entry into professional schools, including medical school, dental school, veterinary school, and law school.	
CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English Composition EN 1103 English Comp I OR EN 1163 Accelerated Comp I EN 1113 English Comp II OR EN 1173 Accelerated Comp II	6	English Composition EN 1103 English Comp I OR EN 1163 Accelerated Comp I EN 1113 English Comp II OR EN 1173 Accelerated Comp II	6
Mathematics See Major Core	6-9	Mathematics See Major Core	6-9
Natural Sciences See Major Core	6-8	Natural Sciences See Major Core	6-8

Humanities Any Gen Ed course	6	Humanities Any Gen Ed course	6
Fine Arts Any Gen Ed course	3	Fine Arts Any Gen Ed course	3
Social/Behavioral Sciences Any Gen Ed course	6	Social/Behavioral Sciences Any Gen Ed course	6
Major Core Math and Basic Science MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2743 Calculus IV MA 3253 Differential Equations I CH 1213 Chemistry I CH 1211 Investigations in Chemistry I CH 1223 Chemistry II CH 1221 Investigations in Chemistry II *CH 2503 Elementary Organic Chemistry OR* *CH 4513 Organic Chemistry I* *CH 2501 Elementary Organic Chem Lab OR* *CH 4511 Organic Chemistry I Lab* PH 2213 Physics I PH 2223 Physics II BIO 1134 Biology I *BIO 3304 General Microbiology* *BCH 4013 Principles of Biochemistry OR General Biochemistry*	*44*	Major Core Math and Basic Science MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2743 Calculus IV MA 3253 Differential Equations I CH 1213 Chemistry I CH 1211 Investigations in Chemistry I CH 1223 Chemistry II CH 1221 Investigations in Chemistry II PH 2213 Physics I PH 2223 Physics II BIO 1134 Biology I	**33**
Engineering Topics *ABE 1911 Intro to Engineering in Life Sciences* *ABE 1921 Intro to Engineering Design* ABE 4803 Biosystems Simulation ABE 3413 Bioinstrumentation I ABE 3303 Transport in Biological Environment	*42*	Engineering Topics **ABE 1912 Computer-Based Problem Solving in Biological Engineering** **ABE 1922 Intro to Engineering Design and Manufacturing** ABE 4803 Biosystems Simulation ABE 3413 Bioinstrumentation I ABE 3303 Transport in Biological Environment	**43**

ABE 4323 Physiological Systems in Biomedical Engineering ABE 4423 Bioinstrumentation II ABE 3813 Biophysical Properties of Materials ABE 4813 Principles of Engineering Design ABE 4833 Practices of Engineering Design *ABE 4911 Engineering Seminar* *MA 3123 Introduction to Statistical Inference* EM 2413 Engineering Mechanics I EM 2433 Engineering Mechanics II EM 3213 Mechanics of Materials EM 3313 Fluid Mechanics		ABE 4323 Physiological Systems in Biomedical Engineering ABE 4423 Bioinstrumentation II ABE 3813 Biophysical Properties of Materials ABE 4813 Principles of Engineering Design ABE 4833 Practices of Engineering Design **MA 3123 Introduction to Statistical Inference OR** **IE 4613 Engineering Statistics I** EM 2413 Engineering Mechanics I EM 2433 Engineering Mechanics II EM 3213 Mechanics of Materials EM 3313 Fluid Mechanics	
Oral Communication Requirement Fulfilled in GE 3513 and other ABE courses		Oral Communication Requirement Fulfilled in GE 3513 and other ABE courses	
Writing Requirement GE 3513 Technical Writing	3	Writing Requirement GE 3513 Technical Writing	3
Computer Literacy Fulfilled in Engineering Topics courses		Computer Literacy Fulfilled in Engineering Topics courses	
Restricted Electives Biological Science Elective * *Engineering Elective (at least 6 hours must be ABE electives)*** Engineering Elective OR Math/Physics Elective*** *Bio Sci Electives: BIO 2103 Cell Biology, BIO 3004 Human Anatomy, BIO 3014 Human Physiology, BIO 3103 Genetics I, BIO 3504 Comparative Anatomy, BIO 3524 Biology of Vertebrates, BIO 4113 Evolution, *BIO 4114 Cellular Physiology*, BIO 4133 Human Genetics, BIO 4143 Population Genetics, BIO 4405 Pathogenic Microbiology, BIO	 3 12 3	Restricted Electives Biological Science Elective* **Engineering/Technical Elective**** **Engineering Elective** Engineering OR Math/Physics Elective*** **ABE Elective****** *Bio Sci Electives: BIO 2103 Cell Biology, BIO 3004 Human Anatomy, BIO 3014 Human Physiology, BIO 3103 Genetics I, **BIO 3443 Biology of Cancer,** BIO 3504 Comparative Anatomy, BIO 3524 Biology of Vertebrates, BIO 4113 Evolution, BIO 4133 Human Genetics, BIO 4143 Population Genetics, BIO 4405 Pathogenic Microbiology, BIO 4413	 3 **10** **6** 3 **6**

4413 Immunology, BIO 4433 Principles of Virology, BIO 4503 Vertebrate Histology, BIO 4504 Comparative Vertebrate Embryology, BIO 4514 Animal Physiology, ADS 4613 Physiology of Reproduction, BCH 4113 Essentials of Molecular Genetics, CVM 2443 Essentials of Biotechnology		Immunology, BIO 4433 Principles of Virology, BIO 4503 Vertebrate Histology, BIO 4504 Comparative Vertebrate Embryology, BIO 4514 Animal Physiology, ADS 4613 Physiology of Reproduction, **BCH 2023 Molecular Mechanisms of Human Diseases**, BCH 4113 Essentials of Molecular Genetics, **BCH 4443 Introduction to Human Health**, CVM 2443 Essentials of Biotechnology, **CVM 4193 Medical Pharmacology**	
***Engineering Electives: ABE 4523 Biomedical Materials, ABE 4613 Biomechanics, ABE 4723 Tissue Engineering and Regeneration, ABE 4624 Experimental Methods in Materials Research, ABE 4513 Dynamics of Aging, ABE 4533 Rehabilitation Engineering*, EM 4123 An Introduction to the Finite Element Method, EM 4133 Mechanics of Composite Materials, EM 4213 Advanced Mechanics of Materials, ME 3113 Engineering Analysis, *ME 3533 Thermodynamics*, ME 4123 Failure of Engineering Materials, ME 4743 Labview, ME 4833 Intermediate Fluid Mechanics, EG 1143 Graphic Communication, CSE 4613 Bio-computing, CSE 4623 Computational Biology, IE 3913 Engineering Economy, IE 4113 Human Factors Engineering, *IE 4173 Occupational Safety Engineering*, IE 4553 Engineering Law and Ethics, IE 4733 Linear Programming, IE 4743 Engineering Design Optimization, ECE 3714 Digital Devices and Logic Design , ECE 3443 Signals and Systems		****Engineering/Technical Electives: ABE 4911 Engineering Seminar, ASE 3213 Mechanics of Deformable Structures, BIO 3304 General Microbiology, BCH 4013 Principles of Biochemistry, CH 2503 Elementary Organic Chemistry, CH 2501 Elementary Organic Chemistry – Lab, CH 4331 Practical Mass Spectrometry, CH 4341 Practical Materials Characterization, CH 4461 Practical Optical Spectroscopy, CH 4513 Organic Chemistry I, CH 4511 Organic Chemistry Lab I, CH 4523 Organic Chemistry II, CH 4521 Organic Chemistry Lab II, CHE 3413 Engineering Materials, CHE 4143 Advanced Poly/Composite Materials, CSE 1233 Computer Programming – C, CSE 1273 Computer Programming – Java,** CSE 4613 Bio-Computing, CSE 4623 Computational Biology, **CSE 4683 Machine Learning and Soft Comp, ECE 3213 Solid State Electronics, ECE 3413 Introduction to Electronic Circuits, ECE 3283 Electronics, ECE 3423 Circuits I, ECE 3421 Circuits I Lab, ECE 3424**	

		Intermediate Electronic Circuits, ECE 3443 Signals and Systems, ECE 3714 Digital Devices, **ECE 4273 Microelectronics Device Design, ECE 4293 Nano-electronics, IE 3121 Industrial Ergonomics Laboratory, EM 3413 Vibrations**, EM 4123 Introduction to Finite Elements, EM 4133 Composite Materials, **EM 4143 Engineering Design Optimization**, EM 4213 Advanced Mechanics of Materials, **IE 3123 Industrial Ergonomics**, IE 3913 Engineering Economy, IE 4113 Human Factors Engineering, IE 4553 Engineering Law & Ethics, **IE 4623 Engineering Statistics II, IE 4683 Machine Learning with IE Applications,** IE 4733 Linear Programming, IE 4743 Engineering Design Optimization, **IE 4753 Systems Engineering & Analysis,** EG 1143 Graphic Communication, ME 3113 Engineering Analysis, ME 3163 Introduction to Design with Finite Element Analysis, **ME 3403 Materials for Mechanical Engineering Design, ME 3423 Mechanics of Machinery, ME 3513 Thermodynamics I, ME 3613 System Dynamics, ME 4113 Material Selection in Design,** ME 4123 Failure of Engineering Materials, **ME 4233 Fundamentals of Finite Element Analysis, ME 4643 Introduction to Vibration/Controls,** ME 4723 Labview, ME 4833 Intermediate Fluid Mechanics, **SBP 3133 Mechanics of Biomaterials**	
***Math/Physics Electives: MA 3113 Introduction to Linear Algebra, MA 3353 Differential Equations II, MA 4143 Graph		***Math/Physics Electives: MA 3113 Introduction to Linear Algebra, MA 3353 Differential Equations II, MA 4143 Graph	

Theory, MA 4373 Introduction to Partial Differential Equations, PH 2233 Physics III, PH 3613 Modern Physics, PH 4113 Elec Circuit Scien		Theory, MA 4373 Introduction to Partial Differential Equations, PH 2233 Physics III, PH 3613 Modern Physics, PH 4113 Elec Circuit Scien ******ABE Elective: ABE 3773 Current Topics in Biomedical Engineering, ABE 4443 Spectroscopic Sensing in Biosystems, ABE 4463 Introduction to Imaging in Biological Systems, ABE 4523 Biomedical Materials, ABE 4613 Biomechanics, ABE 4723 Tissue Engineering**	
Total Hours	128	Total Hours	128

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

The current BME curriculum is highly prescriptive and offers students little opportunity to specialize in a particular area. It serves the pre-medical students well, but it does not have the flexibility that would allow students interested in an industry position or graduate school a chance to tailor the curriculum to their needs. The proposed modification still accommodates the pre-medical emphasis while offering all students a much wider range of courses from which to choose. For example, students interested in developing new medical technology will be able to choose engineering courses in place of some currently required natural science courses (e.g. Elementary Organic Chemistry and Biochemistry). Furthermore, during 2021 and 2022 meetings of the ABE Advisory Board, members reported that recent graduates may have been less competitive than they could have been for industry positions had they been able to demonstrate deeper knowledge in at least one area of specialization. They suggested that we consider a curriculum modification that facilitates students emphasizing in a particular area of interest. Finally, we have noticed that the current rigid curriculum frequently creates course scheduling difficulties. Therefore, we propose a modified base curriculum with fewer "hard-wired" courses and more electives.

Students will benefit from the curriculum modification by having a curriculum that better prepares them for (a) careers in the broad area of medical device design and manufacturing (b) graduate study in biomedical engineering or related engineering discipline. Through a deliberate and judicious selection of electives, a student will be able to create a curriculum with emphasis in a particular area of interest, for example Biosensors or Biomaterials, in addition to Pre-Medical. Concentrations within BME programs are quite common, almost the rule rather than the exception. For example, students in the University of Alabama at Birmingham's BME program can concentrate in Biomechanics, Biomaterials, or Tissue Engineering, and students in Duke's BME program (ranked 7th nationally) may learn specific knowledge in Biomedical Imaging and Instrumentation, Biomolecular and

Tissue Engineering, Biomechanics, and Electrobiology. The proposed new base curriculum supports the creation of concentrations, which we intend to add in the future.

While the proposed curriculum modification offers students much wider choice than they have currently, the learning outcomes have not changed and are aligned with the student outcomes of ABET-accredited engineering programs as listed below.

Upon graduation, Biomedical Engineering students will be able to demonstrate:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Responses to additional questions are below.

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

  Yes. Improving our nation's health and lowering healthcare costs are national priorities. Biomedical engineers develop devices and procedures that solve medical and health-related problems by combining their knowledge of biology and medicine with engineering principles and practices. They develop and evaluate systems and products such as artificial organs, prostheses (artificial devices that replace missing body parts), instrumentation, medical information systems, and health management and care delivery systems. According the Bureau of Labor Statistics the job outlook for biomedical engineers is a faster-than-average 10% over the next decade. The aging of the population and a growing focus on health issues will drive demand for better medical devices and equipment designed by biomedical engineers.

- Will this program change result in duplication in the System?

  No. MSU began offering a formal concentration in Biomedical Engineering in 2008, which evolved into its own ABET-accredited bachelor of science program in 2017. The proposed change does not affect its delineation from other engineering disciplines.

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

  Yes, especially in terms of gender diversity. It is expected to have a positive impact on enrollment, and BME attracts a much higher percentage of women than most other engineering disciplines; women currently make up 57% of students enrolled in the MSU BME B.S. program (170 out of 298).

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

  Yes. Because most students' curricula will include more engineering electives, we expect that graduates will generally be more competitive for jobs in the biomedical industry.

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

  Yes. We expect the new curriculum will qualify our graduates for additional jobs, and the 2021 median pay for biomedical engineers was $97,410 per year.

4. SUPPORT
   See attached letter.

5. PROPOSED 4-LETTER ABBREVIATION
   BME

6. EFFECTIVE DATE
   August 15, 2023

MISSISSIPPI STATE UNIVERSITY

Department of Agricultural and Biological Engineering
P. O. Box 9632, Mississippi State, MS 39762
Phone: 662.325.3282; Website: abe.msstate.edu

December 19, 2022

Dr. Andy Perkins, Chair
University Committee on Courses and Curricula

Dear Dr. Perkins,

We propose to modify the BME Bachelor of Science program to increase our students' elective choices and to facilitate the creation of new emphases in areas such as biomaterials and biosensors. The new curriculum will also accommodate the existing pre-medical emphasis with minor modification.

This modification was partly motivated by feedback from our departmental advisory board.

Sincerely,

Steven Elder, Ph.D.
Professor and Biomedical Engineering Curriculum Coordinator

Concurrence:

Daniel Chesser

Jessica Drewry

John Lowe

Yuzhen Lu

Vitor Martins

Prem Parajuli

Joel Paz

Lauren Priddy

LaShan Simpson

Amirtahà Taebi

Mary Love Tagert

J. Alex Thomasson

Filip To

David Vandenheever

Nuwan Wijewardane

Fei Yu

Xin Zhang

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: Bagley College of Engineering **Department:** Mechanical Engineering

Contact Person: Matthew W. Priddy **Mail Stop:** 9552 **E-mail:** mwpriddy@me.msstate.edu

Nature of Change: Minor Change **Date Initiated:** 01/30/2023 **Effective Date:** Fall 2023

Current Degree Program Name: Bachelor of Science

Major: Mechanical Engineering **Concentration:** n/a

New Degree Program Name: Bachelor of Science

Major: Mechanical Engineering **Concentration:** n/a

Summary of Proposed Changes:

Modification: The Department of Mechanical Engineering is proposing to modify our curriculum by replacing Mechanical Systems Design (ME 4443) with Capstone Design and Innovation (ME 4433). This course replacement will give our curriculum a capstone design course that is focused on design, innovation, and technological advances – all of which are essential for our students to be prepared for jobs after graduation.

Approved:	Date:
Haitham El Kadiri Digitally signed by Haitham El Kadiri Date: 2023.02.06 11:48:01 -06'00'	Haitham El Kadiri Digitally signed by Haitham El Kadiri Date: 2023.02.06 11:48:17 -06'00'
Department Head	3/8/23
Chair, College or School Curriculum Committee	3/9/23
for Jason Keith Dean of College or School	3/10/2023
Chair, University Committee on Courses and Curricula	4/19/23
Chair, Graduate Council (if applicable)	
Chair, Deans Council	May 2nd, 2023

Degree Modification Proposal

1. **Catalog Description**
   No changes

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

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Mechanical Engineering Concentration: n/a	Degree: Bachelor of Science Major: Mechanical Engineering Concentration: n/a
Mechanical Engineering is the application of science and mathematics to the design, development, and operation of mechanical and energy systems. Examples of these systems include mechanical devices ranging from simple linkages and gears to complex automated robots and energy systems ranging from basic water pumps to high-performance jet engines. Since the range of applications is so broad, virtually all industries employ Mechanical Engineers in various capacities. Some of the major areas of employment are the manufacturing, chemical, paper, aerospace, utility, construction, transportation, petroleum, electronics, and computer industries. The mission of the Department of Mechanical Engineering is to educate students in fundamental engineering principles, thus enabling the understanding of existing and next generation technologies relevant to research and engineering practice. All graduates will receive a broad education that will enable them to be successful in industry or academia, the profession and the community. To carry out this mission, the Mechanical Engineering faculty, with input from other constituencies, has established the following objectives that describe the expected accomplishments of graduates during the first few years following graduation: 1. Apply fundamental engineering knowledge, industry perspective and research skills to become experts or leaders within a chosen engineering career path. 2. Exhibit life-long learning and develop personal and teamwork skills in order to effectively solve real-life problems and clearly communicate their results. 3. Practice ethical responsibility and accountability in professional activities and actively participate in professional development.	Mechanical Engineering is the application of science and mathematics to the design, development, and operation of mechanical and energy systems. Examples of these systems include mechanical devices ranging from simple linkages and gears to complex automated robots and energy systems ranging from basic water pumps to high-performance jet engines. Since the range of applications is so broad, virtually all industries employ Mechanical Engineers in various capacities. Some of the major areas of employment are the manufacturing, chemical, paper, aerospace, utility, construction, transportation, petroleum, electronics, and computer industries. The mission of the Department of Mechanical Engineering is to educate students in fundamental engineering principles, thus enabling the understanding of existing and next generation technologies relevant to research and engineering practice. All graduates will receive a broad education that will enable them to be successful in industry or academia, the profession and the community. To carry out this mission, the Mechanical Engineering faculty, with input from other constituencies, has established the following objectives that describe the expected accomplishments of graduates during the first few years following graduation: 1. Apply fundamental engineering knowledge, industry perspective and research skills to become experts or leaders within a chosen engineering career path. 2. Exhibit life-long learning and develop personal and teamwork skills in order to effectively solve real-life problems and clearly communicate their results. 3. Practice ethical responsibility and accountability in professional activities and actively participate in professional development.

The Mechanical Engineering curriculum is designed to meet these objectives. The basic courses in mechanics, materials, thermodynamics, electrical engineering systems, and dynamics prepare the student for the comprehensive design courses in the senior year culminating in major design experiences in energy systems and in mechanical systems. Throughout the curriculum there is significant use of the computer to solve realistic engineering problems. All entering ME juniors are required to have a portable computer that they will use interactively in the classroom. The ME laboratory sequence stresses the planning, design, and operation of experiments. The curriculum also places a strong emphasis on technical communications. Senior technical electives allow the student to study particular areas of interest. The Mechanical Engineering Program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.	The Mechanical Engineering curriculum is designed to meet these objectives. The basic courses in mechanics, materials, thermodynamics, electrical engineering systems, and dynamics prepare the student for the comprehensive design courses in the senior year culminating in major design experiences in energy systems and in mechanical systems. Throughout the curriculum there is significant use of the computer to solve realistic engineering problems. All entering ME juniors are required to have a portable computer that they will use interactively in the classroom. The ME laboratory sequence stresses the planning, design, and operation of experiments. The curriculum also places a strong emphasis on technical communications. Senior technical electives allow the student to study particular areas of interest. The Mechanical Engineering Program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

CURRENT CURRICULUM OUTLINE	Required Hours
English Composition	
EN 1103 English Composition I	3
EN 1113 English Composition II	3
Mathematics	
See Major Core	
Science	
See Major Core	
Humanities Elective	6
Fine Arts Elective	3
Social/Behavioral Science Elective	6
Major Core	
Math and Basic Science	
MA 1713 Calculus I	3
MA 1723 Calculus II	3
MA 2733 Calculus III	3
MA 2743 Calculus IV	3
MA 3113 Intro to Linear Algebra	3
MA 3253 Differential Equations I	3
CH 1213 Chemistry I	3
CH 1211 Investigations in Chemistry	1
CH 1223 Chemistry II	3
PH 2213 Physics I	3
PH 2223 Physics II	3
Engineering Topics	
IE 3913 Engineering Economy	3
EM 2413 Engineering Mechanics I	3
EM 2433 Engineering Mechanics II	3
EM 3313 Fluid Mechanics	3
EM 3213 Mechanics of Materials	3
ECE 3413 Introduction to Electronic Circuits	3

PROPOSED CURRICULUM OUTLINE	Required Hours
English Composition	
EN 1103 English Composition I	3
EN 1113 English Composition II	3
Mathematics	
See Major Core	
Science	
See Major Core	
Humanities Elective	6
Fine Arts Elective	3
Social/Behavioral Science Elective	6
Major Core	
Math and Basic Science	
MA 1713 Calculus I	3
MA 1723 Calculus II	3
MA 2733 Calculus III	3
MA 2743 Calculus IV	3
MA 3113 Intro to Linear Algebra	3
MA 3253 Differential Equations I	3
CH 1213 Chemistry I	3
CH 1211 Investigations in Chemistry	1
CH 1223 Chemistry II	3
PH 2213 Physics I	3
PH 2223 Physics II	3
Engineering Topics	
IE 3913 Engineering Economy	3
EM 2413 Engineering Mechanics I	3
EM 2433 Engineering Mechanics II	3
EM 3313 Fluid Mechanics	3
EM 3213 Mechanics of Materials	3
ECE 3413 Introduction to Electronic Circuits	3

ME 1111 Introduction to Mechanical Engineering	1	ME 1111 Introduction to Mechanical Engineering	1
ME 2133 Modeling and Manufacturing	3	ME 2133 Modeling and Manufacturing	3
ME 3103 Exp Measurements and Techniques	3	ME 3103 Exp Measurements and Techniques	3
ME 3113 Engineering Analysis	3	ME 3113 Engineering Analysis	3
ME 3313 Heat Transfer	3	ME 3313 Heat Transfer	3
ME 3403 Mat for Mech Eng Design	3	ME 3403 Mat for Mech Eng Design	3
ME 3423 Mechanics of Machinery	3	ME 3423 Mechanics of Machinery	3
ME 3513 Thermodynamics I	3	ME 3513 Thermodynamics I	3
ME 3523 Thermodynamics II	3	ME 3523 Thermodynamics II	3
ME 3613 System Dynamics	3	ME 3613 System Dynamics	3
ME 4111 Professional Seminar	1	ME 4111 Professional Seminar	1
ME 4301 Thermo-Fluids Laboratory	1	ME 4301 Thermo-Fluids Laboratory	1
ME 4333 Energy Systems Design	3	ME 4333 Energy Systems Design	3
ME 4401 Solid Mechanics Laboratory	1	ME 4401 Solid Mechanics Laboratory	1
ME 4403 Machine Design	3	ME 4403 Machine Design	3
ME 4443 Mechanical Systems Design	3	**ME 4433 Capstone Design and Innovation**	3
ME 4643 Intro to Vibrations and Controls	3	ME 4643 Intro to Vibrations and Controls	3
Technical Elective	9	Technical Elective	9
Oral Communication Requirement		Oral Communication Requirement	
Satisfied by ME 2133, ME *4443*, and GE 3513		Satisfied by ME 2133, ME **4433**, and GE 3513	
Writing Requirement		Writing Requirement	
GE 3513 Technical Writing	3	GE 3513 Technical Writing	3
Computer Literacy		Computer Literacy	
CSE 1233 Computer Programming with C (or equivalent programming course)	3	CSE 1233 Computer Programming with C (or equivalent programming course)	3
Total Hours	128	Total Hours	128

3. **Justification and Student Learning Outcomes**

The program is requesting one (1) course replacement by replacing ME 4443 Mechanical Systems Design with ME 4433 Capstone Design and Innovation. The modification requested will allow the program to offer students a capstone design course that allows for a focus on hands-on design projects similar to those they will experience in industry after graduation. ME 4433 is a 2 credit lecture, 1 credit lab course where the students will be required to work on an engineering design project that is motivated by projects commonly found in industry.

The ME Undergraduate Curriculum Committee proposed the creation of ME 4433 Capstone Design and Innovation to better execute the capstone design experience we wish for our students and to provide transparency to interested students that we have a dedicated capstone design course. The Committee recommended the proposed modifications/addition to the faculty and they voted unanimously to proceed with the modifications.

Student Learning Outcomes

The one (1) course replacement will not affect the overall program learning objectives. The modifications in the program meet the standards of the Accreditation Board for Engineering and Technology, Inc. (ABET). ABET is the accreditation body for all engineering degree programs.

1. **Will this program change meet local, state, regional, and national educational and cultural needs? If so, please describe.**
   Yes. There has been a recent recommendation for B.S. program curriculums, particularly in STEM, to include more experiential learning. The addition of a dedicated capstone design course will improve our ability to satisfy that recommendation.

2. **Will this program change result in duplication in the System? If so, please describe.**
   No.

3. **Will this program change/advance student diversity within the discipline? If so, please describe.**
   There is a possibility that the visibility of a capstone design course could change or advance student diversity within the ME B.S. degree program (particularly if some of the socially-responsible capstone design projects are properly advertised), but we would expect that to be a very minor change in student demographics since this is only one course in the program.

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

There is a possibility that engineering companies might be more likely to recruit our students because our curriculum has a dedicated capstone design course. The presence of a capstone design course makes it more likely that we are able to recruit industry mentors and sponsors for the capstone design course, which historically has led to an increased interest in the hiring of our graduates. However, this would most likely be limited to companies located in the region, including MS and the surrounding states.

5. **Will this program change result in an increase in the potential salaries of graduates in MS, the Southeast, and the U.S.? If so, please describe.**
   No.

4. **Support**
   Letter Attached. Written and signed by the ME Undergraduate Curriculum Committee

5. **Effective Date**
   Fall 2023

6. **Contact Person**
   Matthew W. Priddy, Assistant Professor
   (662) 325-7322
   mwpriddy@me.msstate.edu

MISSISSIPPI STATE UNIVERSITY
JAMES WORTH BAGLEY COLLEGE OF ENGINEERING

DEPARTMENT OF
MECHANICAL ENGINEERING

P.O. Box 9552
479-1 Hardy Road
210 Carpenter Hall
Mississippi State, MS 39762

P. 662.325.3260
F. 662.325.7223
www.me.msstate.edu

January 24, 2023

To: University Committee on Course and Curricula:

Re: Addition of Technical Elective to ME Curriculum

The ME Undergraduate Curriculum Committee considered a proposal to update the ME curriculum by replacing Mechanical Systems Design (ME 4443) with Capstone Design and Innovation (ME 4433). The votes below from the members of the ME UG curriculum committee reflect their support for the proposal ME curriculum change.

Name and Title (Voting Members)	**Signature**
Kip Barrett, Assistant Professor (chair)	
Alta Knizley, Associate Clinical Professor	
Heejin Cho, Associate Professor	
Shanti Bhushan, Associate Professor	
Hongjoo Rhee, Associate Professor	
Matthew Priddy, Assistant Professor	
Aaron Smith, Associate Clinical Professor	
Shane Brauer, Assistant Clinical Professor	
Morgan Green, Instructor	
Ross Smith, Instructor	
Omar Es-Sahli, Instructor	
Alejandro Martinez-Castellon, Instructor	
Jennie Daigler, Instructor	

Please feel free to contact me with any questions or concerns.

Sincerely,

Matthew Priddy, Ph.D.
Assistant Professor
Teaching Coordinator

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, along with all required copies, to UCCC, Garner, Room 279, (Mail Stop 9702).

College or School: Bagley College of Engineering **Department:** Ag & Biological Engineering

Contact Person: Steve Elder **Mail Stop:** 9632 **E-mail:** selder@abe.msstate.edu

Nature of Change: Degree modification **Date Initiated:** 2/6/2023 **Effective Date:** Fall '23

New or Current Degree Program Name: Biosystems Engineering

Summary of Proposed Changes:

New curriculum has stronger emphasis on agriculture natural resources; introductory courses have been modified and expanded to two credit hours; some previously required courses have been replaced by electives.

Approved by: Date:

J. Alex Thomasson Digitally signed by J. Alex Thomasson Date: 2023.02.07 11:49:18 -06'00' 2/7/23
Department Head

3/9/23
Chair, College or School Curriculum Committee

for Jason Keith 3/10/2023
Dean, College or School

4/19/23
Chair, University Committee on Courses & Curricula

Chair, Graduate Council (if applicable)

May 2nd, 2023
Chair, Deans Council

- Dir Ac Grad 3/7/23

IHL Action Required

SACS Letter Sent

PROPOSAL TO MODIFY THE
BIOSYSTEMS ENGINEERING BACHELOR OF SCIENCE PROGRAM

1. CATALOG DESCRIPTION

See Outline Chart below.

2. DEGREE MODIFICATION OUTLINE CHART

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Bachelor of Science Major: Biosystems Engineering Concentration:		Degree: Bachelor of Science Major: Biosystems Engineering Concentration:	
Biological Engineering is that branch of the engineering profession that deals with engineering problems encountered in biological systems. The responsibilities of the *Biological* Engineer may include finding solutions to address the need for more complex food-producing systems, controlling and monitoring the deterioration of the earth's environment, autonomy in agriculture and biological systems, the use of new technologies in robotics and artificial intelligence, and the creation of new engineering designs based on the inherently creative characteristics of living systems. The curriculum in *Biological Engineering* is designed to give the student a thorough grounding in the basic sciences of mathematics, physics, chemistry, taken with and followed by a series of courses in the engineering and biological sciences.		**Biosystems** Engineering is that branch of the engineering profession that deals with engineering problems encountered in biological systems. The responsibilities of the **Biosystems** Engineer may include finding solutions to address the need for more complex food-producing systems, controlling and monitoring the deterioration of the earth's environment, autonomy in agriculture and biological systems, the use of new technologies in robotics and artificial intelligence, and the creation of new engineering designs based on the inherently creative characteristics of living systems. The curriculum in **Biosystems Engineering** is designed to give the student a thorough grounding in the basic sciences of mathematics, physics, chemistry, taken with and followed by a series of courses in the engineering and biological sciences.	
CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English Composition EN 1103 English Comp I OR EN 1163 Accelerated Comp I EN 1113 English Comp II OR EN 1173 Accelerated Comp II	6	English Composition EN 1103 English Comp I OR EN 1163 Accelerated Comp I EN 1113 English Comp II OR EN 1173 Accelerated Comp II	6
Mathematics See Major Core	6-9	Mathematics See Major Core	6-9
Natural Sciences See Major Core	6-8	Natural Sciences See Major Core	6-8

Humanities Any Gen Ed course	6	Humanities Any Gen Ed course	6
Fine Arts Any Gen Ed course	3	Fine Arts Any Gen Ed course	3
Social/Behavioral Sciences Any Gen Ed course	6	Social/Behavioral Sciences Any Gen Ed course	6
Major Core Math and Basic Science MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2743 Calculus IV MA 3253 Differential Equations I CH 1213 Chemistry I CH 1211 Investigations in Chemistry I CH 1223 Chemistry II CH 1221 Investigations in Chemistry II *CH 2503 Elementary Organic Chemistry OR* *CH 4513 Organic Chemistry I* *CH 2501 Elementary Organic Chem Lab OR* *CH 4511 Organic Chemistry I Lab* PH 2213 Physics I PH 2223 Physics II *BIO 3304 General Microbiology* *BCH 4013 Principles of Biochemistry OR General Biochemistry* Engineering Topics *ABE 1911 Intro to Engineering in Life Sciences* *ABE 1921 Intro to Engineering Design* ABE 4803 Biosystems Simulation ABE 3413 Bioinstrumentation I ABE 3303 Transport in Biological Environment ABE 4423 Bioinstrumentation II ABE 3813 Biophysical Properties of Materials	 *40* *39*	Major Core Math and Basic Science MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2743 Calculus IV MA 3253 Differential Equations I CH 1213 Chemistry I CH 1211 Investigations in Chemistry I CH 1223 Chemistry II CH 1221 Investigations in Chemistry II PH 2213 Physics I PH 2223 Physics II Engineering Topics **ABE 1912 Computer-Based Problem Solving in Biological Engineering** **ABE 1922 Intro to Engineering Design and Manufacturing** ABE 4803 Biosystems Simulation ABE 3413 Bioinstrumentation I ABE 3303 Transport in Biological Environment ABE 4423 Bioinstrumentation II ABE 3813 Biophysical Properties of Materials	 **29**

ABE 4813 Principles of Engineering Design ABE 4833 Practices of Engineering Design *ABE 4911 Engineering Seminar* *MA 3123 Introduction to Statistical Inference* EM 2413 Engineering Mechanics I EM 2433 Engineering Mechanics II EM 3213 Mechanics of Materials EM 3313 Fluid Mechanics		ABE 4813 Principles of Engineering Design ABE 4833 Practices of Engineering Design EM 2413 Engineering Mechanics I EM 2433 Engineering Mechanics II EM 3213 Mechanics of Materials EM 3313 Fluid Mechanics **ABE 3513 GPS & GIS in Ag & Eng**	
Oral Communication Requirement Fulfilled in GE 3513 and other ABE courses		Oral Communication Requirement Fulfilled in GE 3513 and other ABE courses	
Writing Requirement GE 3513 Technical Writing	3	Writing Requirement GE 3513 Technical Writing	3
Computer Literacy Fulfilled in Engineering Topics courses		Computer Literacy Fulfilled in Engineering Topics courses	
Major Requirements and Engineering Electives *Biological Science Elective** *Biological Science Elective*** *ABE 4313 Biological Treatment of Nonpoint Source Pollutants OR ABE 4323 Physiological Systems in Biomedical Engineering* Approved Engineering Electives*** *Biological Science OR Engineering Elective* *ABE Elective* **Bio Sci Elective (3 Credit hours): BIO 1144 Biology II, BIO 2103 Cell Biology, BIO 3103 Genetics I, BIO 3104 Ecology, BIO 3504 Comparative Anatomy, BIO 4114*	 3 4 3 9 3 3	**Major Requirements and Restricted Electives** **ADS 1113 Animal Science** **PSS 1313 Plant Science** **PSS 3303 Soils** **PSS 3301 Soils Laboratory** **Restricted Engineering Electives*** Approved Engineering Electives** **ABE Electives** **Math Elective (3000- or 4000-level MA or ST)** **Laboratory OR Seminar**	 **3** **3** **3** **1** **9** **6** **6** **3** **1**

Cellular Physiology, BIO 4204 Plant Anatomy, BIO 4213 Plant Ecology, BIO 4324 Micro & Ecology in Soil, BIO 4404 Environmental Micro, BIO 4413 Immunology, BIO 4502 Toxicology, BIO 4503 Vertebrate Histology, BIO 4504 Compar Verte Embryo, BIO 4513 Ichthyology, BIO 4514 Animal Physiology, WF 4371 Water Qual Mgt Lab, WF 4372 Water Quality Management, WF 3131 Ap Aq & Ter Ecol Lab, WF 3133 Ap Aq Ter Ecol ***Bio Sci Elective (4 credit hours): ADS 1114 Animal Science, BIO 1134 Biology I, BIO 1144 Biology II, BIO 1504 Principles of Zoology* ****Engineering Electives: ABE 2873 Land Surveying, ABE 3513 GPS/GIS - AG. & ENG, ABE 4263 Soil & Water Mgt, ABE 4513 Dynamics Of Aging, ABE 4523 Biomedical Materials, ABE 4533 Rehab Engineering, ABE 4613 Biomechanics, ABE 4624 Exp Met Mat Res, ABE 4723 Tissue Engineering, CE 3523 Water Res Engr, CE 3824 Environmental Engr, CE 4843 Environ Engineering Chemistry, CE 4893 Haz Waste Mgt, CHE 3413 Eng Materials, CHE 4613 Air Pol Con Design, CHE 4623 Haz Waste Incineration, CHE 4990 Special Topic in CHE, ECE 3714 Digital Devices, EM 4123 Intro Finite Element, EM 4133 Composite Materials, EM 4213 Adv Mec Of Mat, IE 391 Engr Economy I, IE 4173 Occup Safety Eng, IE 4233, IE 4613 Eng Statistics I, MA 3113 Intro Linear Algebra, ME 4403 Machine Design, ME 4483, Computer-Aided Dsgn, ME 4653*		***Restricted Engineering Electives (9 credit hours): ABE 4313 Biological Treatment of NPS Pollution, ABE 4483 Introduction to Remote Sensing Technology, ABE 4990 Geospatial Comput in Biosys Apps, CE 2803 Environmental Issues, CE 3503 Water Resource Engineering, CSE 4643 AI Robotics, ME 3133 Engineering Analysis, ME 3423 Mechanics of Machinery, ME 3613 System Dynamics, ME 4643 Introduction to Vibrations and Controls** ****Engineering Electives: ABE 2873 Land Surveying, ABE 4263 Soil and Water Management, ABE 4313 Biological Treatment of NPS Pollution, ABE 4483 Introduction to Remote Sensing Technology, ABE 4443 Spectroscopic Sensing in Biosys, ABE 4463 Intro to Imaging in Bio Eng Sys, ABE 4990 Geospatial Comput in Biosys Apps, ASE 4423 Introduction to Computational Fluid Dynamics, ASE 4713 Introduction to Unmanned Aircraft Systems, CE 2803 Environmental Issues, CE 3313 Construction Materials, CE 3413 Soil Mechanics, CE 3503 Water Resource Engineering, CE 3603 Structural Mechanics, CE 3823 Environmental Engineering, CE 4233 Control, CE 4243 Land Surveys, CE 4513 Engineering Hydrology, CE 4523 Open Channel Hydraulics, CE 4533 Computational Methods in Water Resources Engineering, CE 4563**	

MISSISSIPPI STATE UNIVERSITY

Department of Agricultural and Biological Engineering
P. O. Box 9632. Mississippi State, MS 39762
Phone: 662.325.3282; Website: abe.msstate.edu

December 19, 2022

Dr. Andy Perkins, Chair
University Committee on Courses and Curricula

Dear Dr. Perkins,

We propose to modify the BME Bachelor of Science program to increase our students' elective choices and to facilitate the creation of new emphases in areas such as biomaterials and biosensors. The new curriculum will also accommodate the existing pre-medical emphasis with minor modification.

This modification was partly motivated by feedback from our departmental advisory board.

Sincerely,

Steve Elder
Digitally signed by Steve Elder
Date: 2023.01.10 10:58:25 -06'00'

Steven Elder, Ph.D.
Professor and Biomedical Engineering Curriculum Coordinator

Concurrence:

Gary D. Chesser, Jr. Digitally signed by Gary D. Chesser, Jr. Date: 2023.01.03 10:31:56 -06'00'
Daniel Chesser

Jessica Drewry Digitally signed by Jessica Drewry Date: 2023.01.03 10:38:13 -06'00'
Jessica Drewry

John Wesley Lowe Digitally signed by John Wesley Lowe Date: 2023.01.04 13:51:18 -06'00'
John Lowe

Yuzhen Lu

Vitor S. Martins Digitally signed by Vitor S. Martins Date: 2023.01.05 08:20:26 -06'00'
Vitor Martins

Prem Parajuli Digitally signed by Prem Parajuli Date: 2023.01.05 15:06:51 -06'00'
Prem Parajuli

Digitally signed by Joel O. Paz Date: 2023.01.05 16:12:45 -06'00'
Joel Paz

Lauren Priddy Digitally signed by Lauren Priddy Date: 2023.01.05 16:16:58 -06'00'
Lauren Priddy

Digitally signed by Charlton LaShun Simpson Date: 2023.01.09 08:58:31 -06'00'
LaShan Simpson

Digitally signed by Amirtaha Taebi Date: 2023.01.09 09:28:59 -06'00'
Amirtahà Taebi

Mary Love Tagert

J. Alex Thomasson Digitally signed by J. Alex Thomasson Date: 2023.01.09 10:03:07 -06'00'
J. Alex Thomasson

FilpTo Digitally signed by FilpTo Date: 2023.01.10 07:08:50 -06'00'
Filip To

Digitally signed by David Vandenheever Date: 2023.01.10 09:38:15 -06'00'
David Vandenheever

Nuwan K. Wijewardane Digitally signed by Nuwan K. Wijewardane Date: 2023.01.10 09:41:23 -06'00'
Nuwan Wijewardane

Fei Yu Digitally signed by Fei Yu Date: 2023.01.10 09:49:45 -06'00'
Fei Yu

Xin Zhang Digitally signed by Xin Zhang Date: 2023.01.10 09:57:40 -06'00'
Xin Zhang

Fluid Power Control, ME 4833 *Intermed Fluid Mech* ***Math/Physics Electives: MA 3113 Introduction to Linear Algebra, MA 3353 Differential Equations II, MA 4143 Graph Theory, MA 4373 Introduction to Partial Differential Equations, PH 2233 Physics III, PH 3613 Modern Physics, PH 4113 Elec Circuit Scien		**Sedimentation Engineering, CE 4843 Environmental Engineering Chemistry, CE 4923 Structural Dynamics, CE 4963 Steel Structures I, CE 4983 Engineering of Wood Structures, CHE 3113 Chemical Engineering Thermodynamics I, CHE 3123 Chemical Engineering Thermodynamics II, CHE 4163 Nanotech Chem App, CHE 4173 Polymer Science & Technology, CHE 4613 Air Pollution Control Design, CHE 4673 Industrial Microbiology, CHE 4683 Fundamentals of Biofuels Production, CSE 3713 Introduction to Cybersecurity, CSE 4153 Data Communications and Computer Networks, CSE 4243 Information and Computer Security, CSE 4413 Principles of Computer Graphics, CSE 4423 Data Visualization, CSE 4503 Database Management Systems, CSE 4613 Bio-computing, CSE 4623 Computational Biology, CSE 4633 Artificial Intelligence, CSE 4643 AI Robotics, CSE 4683 Machine Learning and Soft Computing, CSE 4693 Introduction to Machine Learning, ECE 3283 Electronics, ECE 3443 Signals and Systems, ECE 4413 Digital Signal Processing, ECE 4423 Introduction to Remote Sensing Technologies, ECE 4783 Vision Based Guidance for MAVs, ECE 4813 Communications Theory, ECE 4823 Digital Communications, ECE 4943 Automation, Data Acquisition, and PLCs, IE 3323 Manufacturing Processes, IE 3913 Engineering Economy I, IE 4113 Human**	

		Factors Engineering, IE 4173 Occupational Safety Engineering, IE 4333 Production Control Systems I, IE 4353 Materials Handling, IE 4513 Engineering Administration, IE 4533 Project Management, IE 4553 Engineering Law and Ethics, IE 4573 Process Improvement Engineering, IE 4613 Engineering Statistics I, IE 4623 Engineering Statistics II, IE 4653 Industrial Quality Control, IE 4673 Reliability Engineering, IE 4683 Machine Learning with Industrial Engineering Applications, IE 4713 Operations Research I, IE 4743 Engineering Design Optimization, IE 4753 Systems Engineering and Analysis, IE 4923 Six Sigma Methods and Project, ME 3133 Engineering Analysis, ME 3103 Experimental Measurements and Techniques, ME 3163 Introduction to Mechanical Design with Finite Element Analysis, ME 3313 Heat Transfer, ME 3403 Materials for Mechanical Engineering Design, ME 3423 Mechanics of Machinery, ME 3513 Thermodynamics I, ME 3523 Thermodynamics II, ME 3613 System Dynamics, ME 4113 Material Selection in Design ME 4123 Failure of Engineering Materials, ME 4133 Mechanical Metallurgy, ME 4193 Automotive Engineering, ME 4223 Mechanical Systems Analysis, ME 4233 Fundamentals of Finite Element Analysis, ME 4343 Intermediate Heat Transfer, ME 4353 Alternate Energy Sources, ME 4403 Machine Design, ME 4413 Casting and Joining, ME 4423 Machining and Forming, ME 4443	

		Mechanical Systems Design, ME 4453 Lubrication, ME 4543 Combustion Engines, ME 4623 Control Systems, ME 4643 Introduction to Vibrations and Controls, ME 4833 Intermediate Fluid Mechanics	
Total Hours	128	Total Hours	128

The proposed modification accommodates emphases such as Natural Resources and Environment. Students expressing an interest in a Natural Resources and Environment emphasis will be advised to register for the electives like ABE 2873 Land Surveying, ABE 4263 Soil and Water Management, ABE 4313 Biological Treatment of NPS Pollution, ABE 4483 Introduction to Remote Sensing Technology, and ABE 4990 Geospatial Computing in Biosystems Applications.

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

Our newly titled "Biosystems Engineering" program is in the early stages of transitioning from its former title of "Biological Engineering." Over the last few decades, the Biological Engineering program had become dominated by medically oriented students. With the creation of the Biomedical Engineering program a few years ago, most of the current and incoming students migrated to Biomedical Engineering, leaving a small number of students in Biological Engineering, at most 10% of ABE's engineering students. The new Biosystems Engineering title is (a) easier to differentiate from the Biomedical Engineering title, (b) easier to associate with the intended focus areas of agriculture and natural resources, and (c) more in line with sister programs at other land grant universities around the country. The change to Biosystems Engineering concomitantly requires a curriculum that is significantly different from the Biomedical Engineering curriculum and easily associated with agriculture and natural resources.

Students will benefit from the curriculum modification by having a curriculum that better prepares them for (a) careers in the broad area of agriculture and natural resources and (b) emerging technologies that are the future of engineering for agriculture and natural resources, such as sensors, analytics, and robotics. It is expected that the clarification of the program's goals and benefits will bring additional students into the program. The hope is that the program will grow from its current number of 20 to 30 total students to 100 within 5 years. Upon graduation, Biosystems Engineering students will be able to demonstrate the 7 outcomes of ABET-accredited engineering programs:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.

4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Most historical Agricultural Engineering programs do not have a biomedical engineering component, so a comparison was made to the engineering programs in University of Nebraska's Department of Biological Systems Engineering, which does have an emphasis in biomedical engineering, and is well respected in our disciplinary area. Their two degree programs are entitled Agricultural Engineering, which has emphases in Machine Design Engineering, Test Engineering, and Natural Resources and Irrigation Engineering; and Biological Systems Engineering, which has emphases in Biomedical Engineering, Ecological and Environmental Engineering, and Food and Bioprocess Engineering. While the degree titles are different, our newly titled Biosystems Engineering curriculum is similar to UNL's Agricultural Engineering degree program. The emphases at UNL bear similarity to the proposed emphases at MSU, in terms of both the overall direction and the curriculum.

The ABE Advisory Board has discussed the newly titled Biosystems Engineering degree program at its last four meetings:

- April 9, 2021. Advisory Board was in favor of the title change from Biological Engineering to Biosystems Engineering.
- September 10, 2021. Advisory Board was in favor of emphasis areas for ABE engineering majors.
- March 4, 2022. Advisory Board expressed the need for some group of engineering graduates to have stronger mechatronic skills, consistent with the move to emphasize autonomous systems for agriculture.
- September 23, 2022. Advisory Board expressed the need to market the newly titled Biosystems Engineering program by tying the emphasis areas to particular industry jobs and faculty research areas, both of which relate directly to the curricular emphases in autonomous agricultural systems (under development) and natural resources and environment.

Responses to specific questions are below.

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

  Yes, This program modification meets these needs by focusing on the areas of agriculture and natural resources, which are substantial components of Mississippi's economy and which feature prominently in our culture. In fact, agriculture and forestry is Mississippi's top industry. Whereas the previous curriculum was extremely broad and had been designed to accommodate a biomedical engineering emphasis, the modified curriculum

has a strong emphasis on technology designed to promote agricultural production and manage natural resources.

- Will this program change result in duplication in the System?

  No. It will remain the only Mississippi engineering bachelor of science program that is closely associated with agriculture.

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

  We believe that the modified degree program will be more appealing to all students. As a department, we fully support a diversified faculty and student body.

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

  Yes. We expect that students who complete the new curriculum will be more competitive for jobs in the agriculture industry, which is increasingly reliant on technological innovation (e.g., sensors, analytics, and robotics) to increase productivity and limit environmental impact. The new curriculum includes more engineering electives, the careful choice of which will allow students to emphasize in a particular area of interest such as Natural Resources and Environment. We anticipate adding more emphases and that they will expand our graduates' job opportunities.

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

  Yes. We expect the additional jobs for which graduates of the new program may qualify will be at the upper end of the salary scale for agricultural/biosystems engineers.

4. SUPPORT
   See attached letter.

5. PROPOSED 4-LETTER ABBREVIATION
   BE

6. EFFECTIVE DATE
   August 15, 2023

MISSISSIPPI STATE UNIVERSITY

Department of Agricultural and Biological Engineering
P. O. Box 9632, Mississippi State, MS 39762
Phone: 662.325.3282; Website: abe.msstate.edu

January 6, 2023

Dr. Andy Perkins, Chair
University Committee on Courses and Curricula

Dear Dr. Perkins,

We seek approval to modify the Biological Engineering Bachelor of Science program, including a name change to Biosystems Engineering. The new Biosystems Engineering title is (a) easier to differentiate from the Biomedical Engineering title, (b) easier to associate with the intended focus areas of agriculture and natural resources, and (c) more in line with sister programs at other land grant universities around the country. The change to Biosystems Engineering concomitantly requires a curriculum that is significantly different from the Biomedical Engineering curriculum and easily associated with agriculture and natural resources. Students will benefit from the curriculum modification by having a curriculum that better prepares them for careers in the broad area of agriculture and natural resources, as well as emerging technologies that are the future of engineering for agriculture and natural resources, such as sensors, analytics, and robotics.

Thank your for your assistance.

Sincerely,

Steve Elder

Digitally signed by Steve Elder
Date: 2023.01.06 15:05:55 -06'00'

Steven Elder, Ph.D.
Professor and Biological Engineering Curriculum Coordinator
Concurrence:

Gary D. Chesser, Jr. Digitally signed by Gary D. Chesser, Jr. Date: 2023.01.09 09:29:26 -06'00'
Daniel Chesser

Jessica Drewry Digitally signed by Jessica Drewry Date: 2023.01.09 09:56:47 -06'00'
Jessica Drewry

John Wesley Lowe Digitally signed by John Wesley Lowe Date: 2023.01.09 09:58:29 -06'00'
John Lowe

~~Yuzhen Lu~~

Vitor S. Martins Digitally signed by Vitor S. Martins Date: 2023.01.09 10:10:35 -06'00'
Vitor Martins

Prem Parajuli Digitally signed by Prem Parajuli Date: 2023.01.09 12:42:11 -06'00'
Prem Parajuli

Digitally signed by Joel O. Paz Date: 2023.01.09 13:48:20 -05'00'
Joel Paz

Lauren Priddy Digitally signed by Lauren Priddy Date: 2023.01.09 14:00:03 -06'00'
Lauren Priddy

LaShan Simpson

Amirtaha Taebi Digitally signed by Amirtaha Taebi Date: 2023.01.09 15:16:33 -06'00'

Mary Love Tagert

J. Alex Thomasson

Filip To

David Vandenheever

Nuwan Wijewardane

Fei Yu

Xin Zhang

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES
Department of Plant and Soil Sciences

P.O. Box 9555
32 Creelman Street, 117 Dorman Hall
Mississippi State, MS 39762

P. 662.325.2311
F. 662.325.8742
www.pss.msstate.edu

14 March 2023

Dr. Thomasson,

The Department of Plant and Soil Sciences supports the request for curriculum modification by the Department of Agricultural and Biological Engineering, which requires Biosystems Engineering students to take the courses, PSS 1313 and 3303/1.

Please let me know how we can assist.

Respectfully submitted,

Darrin M. Dodds

Darrin M. Dodds
Professor and Head

MISSISSIPPI STATE UNIVERSITY.

DEPARTMENT OF
ANIMAL AND DAIRY SCIENCES
P.O. Box 9815
Mississippi State, MS 39762
P. 662 325.2802
F. 662.325 8873

March 13, 2023

To Whom It May Concern:

The Department of Animal and Dairy Science supports the request for curriculum modification by the Department of Agricultural and Biological Engineering, which requires Biosystems Engineering students to take the course, ADS 1114.

Sincerely,

Brian W Rude on behalf of Joe Street

Dr. Joe Street
Interim Department Head

MISSISSIPPI STATE UNIVERSITY

Office of the Provost and
Executive Vice President
P.O. Box BQ
3500 Lee Hall
Mississippi State, MS 39762-5566
P: 662.325.3742
F: 662.325.4039

October 24, 2022

IHL BOARD NOTIFICATION

TO: Jason Keith
Dean, Bagley College of Engineering

FROM: David Shaw
Provost and Executive Vice President

This is your official notification that permission to rename the following existing degree program in the Department of Agricultural & Biological Engineering was approved by the Mississippi Board of Trustees of State Institutions of Higher Learning.

from: Bachelor of Science in Biological Engineering
to: Bachelor of Science in Biosystems Engineering

from: Master of Science in Biological Engineering
to: Master of Science in Biosystems Engineering

c: Mark Keenum, President
Peter Ryan, Executive Vice Provost & Dean, Graduate School
Brent Fountain, Vice Provost, Academic Affairs
Jim Dunne, Associate VP, Academic Affairs
John Dickerson, Assistant VP, Enrollment
Emily Shaw, Associate Registrar
Amy Adkerson, Special Projects Coordinator, Registrar's office
Tracey Baham, Assistant VP, Institutional Strategy & Effectiveness
Lisa Stricklin, Academic Coordinator
Andy Perkins, Chair, UCCC

Memorandum

To: Dr. David Shaw, Executive Vice President and Provost

From: Dr. Jason M. Keith, Dean of Engineering

Date: January 26, 2023

Re: Immediate Application of Program Name Change—Biosystems Engineering

I respectfully request that once the Technical Change Request modifying the names of the degrees from Biological Engineering to Biosystems Engineering is approved by the chair of the UCCC, that you request the Registrar to make the changes effective for Spring 2023 BS, MS, and PhD graduates. We have discussed this with Associate Registrar, Ms. Emily Shaw, and she has said if requested by you, she could accommodate the request.

As you know, the Board of the Institutions of Higher Learning approved changing the name of Biological Engineering to Biosystems Engineering last year. However, the change inadvertently bypassed the review and approval of the University Committee on Courses and Curricula, and the Registrar requires UCCC approval to make the change in their office. We have submitted our request for evaluation to ABET with proposed dates in October 2023 and the President's Office has approved that request. To ensure the program is reaccredited with the new name of Biosystems Engineering, we need to have the name change applied this semester so that it may appear on the transcripts of May 2023 graduates.

Our concern is that if the name is not effective this semester, then ABET may have concerns about reaccrediting the program with the new name and might opt to reaccredit with the old name. The current request to the UCCC is only to change the name so this will allow us to show that there have been no changes to the program being evaluated other than the name. Although ABET will only be evaluating the baccalaureate degree, to be consistent throughout the program, we are also requesting the name be changed for the MS and the PhD programs as well as the BS program.

Approved: