

## A MEMORANDUM

DATE: November 2, 2020  
TO: UCCC Members  
FROM: Dr. Dana Pomykal Franz, Chair  
SUBJECT: November 13, 2020 Meeting and November 17, 2020 Meeting

The agenda and proposals for the meeting on **Friday, November 13, 2020 beginning at 1:30 p.m.** are enclosed. **The UCCC will also meet on Tuesday, November 17, 2020 at 9:00 a.m. to finish the large agenda.** The meetings will be held by WebEx. Please contact the UCCC Office if you are unable to participate.

The minutes from the October 16, 2020 UCCC meeting and the link for WebEx will be sent to you in separate emails.

Thank you.

Enclosures: Course/Curriculum Proposals

**AGENDA**  
**UNIVERSITY COMMITTEE ON COURSES AND CURRICULA**  
**November 13, 2020**

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

**AGRICULTURE AND LIFE SCIENCES**

Addition +Online/Distance	<a href="#"><u>ADS 3311</u></a>	Meat Processing Laboratory
Addition +Online/Distance	<a href="#"><u>ADS 8013</u></a>	Analytical Techniques for Biological Samples
Addition	<a href="#"><u>BCH 3102</u></a>	Essential Biochemical Concepts and Analysis
Addition +Online/Distance	<a href="#"><u>BCH 4803</u></a>	Integrative Protein Evolution
Addition +Online/Distance	<a href="#"><u>FNH 3311</u></a>	Meat Processing Laboratory

**ARCHITECTURE, ART AND DESIGN**

Addition +Meridian	<a href="#"><u>BCS 3413</u></a>	Graphic Construction Communication
Addition +Meridian	<a href="#"><u>BCS 3423</u></a>	Materials and Methods
Addition +Meridian	<a href="#"><u>BCS 3433</u></a>	Introduction to Estimating
Addition +Meridian	<a href="#"><u>BCS 3443</u></a>	Safety
Addition +Meridian	<a href="#"><u>BCS 3453</u></a>	Construction Technology
Addition +Meridian	<a href="#"><u>BCS 4413</u></a>	Introduction to Scheduling
Addition +Meridian	<a href="#"><u>BCS 4423</u></a>	MEP Systems
Addition +Meridian	<a href="#"><u>BCS 4433</u></a>	Structures
Addition +Meridian	<a href="#"><u>BCS 4443</u></a>	Project Management
Addition +Meridian	<a href="#"><u>BCS 4453</u></a>	Construction Legalities
Addition	<a href="#"><u>ID 8013</u></a>	Practicum
Addition	<a href="#"><u>ID 8153</u></a>	History of American Architecture and Landscape Architecture
Addition	<a href="#"><u>ID 8163</u></a>	Historic Preservation Law
Addition	<a href="#"><u>ID 8253</u></a>	Adaptive Reuse of Existing Buildings
Addition	<a href="#"><u>ID 8263</u></a>	Interior Details, Furniture, Materials, and Finishes
Addition	<a href="#"><u>ID 8273</u></a>	Building Materials Conservation
Addition	<a href="#"><u>ID 8274</u></a>	Research Analysis Methods in Historic Preservation
Addition	<a href="#"><u>ID 8353</u></a>	Internship
Addition	<a href="#"><u>ID 8453</u></a>	Preservation Field Studies I

Addition	<a href="#">ID 8463</a>	Historic Preservation Planning
Addition	<a href="#">ID 8483</a>	Preservation Economics/Advocacy
Addition	<a href="#">ID 8553</a>	Preservation Field Studies II

## ARTS & SCIENCES

Modification	<a href="#">CH 3212</a>	Inorganic Chemistry Laboratory
Modification	<a href="#">CH 3311</a>	Analytical Chemistry I Laboratory
Modification	<a href="#">CH 3313</a>	Analytical Chemistry I
Addition	<a href="#">CO 2701</a>	Speech & Debate Practicum
Addition +Online/Distance	<a href="#">CO 4821</a>	Certificate in Principles of Public Relations in Preparation Course
Addition	<a href="#">CO 4833</a>	Advanced Integrated Media Agency
+Online/Distance	<a href="#">CO 4924</a> /6924	Film Theory
Modification +Online/Distance	<a href="#">PPA 8400</a>	Public Administration Internship
Addition	<a href="#">PS 4243</a> /6243	State Election Policy and Politics

## BUSINESS

Modification +Online/Distance	<a href="#">ACC 3003</a>	Accounting Information Systems I
Modification +Online/Distance	<a href="#">ACC 3013</a>	Cost Accounting
Modification +Online/Distance	<a href="#">ACC 3023</a>	Intermediate Accounting I
+Online/Distance	<a href="#">ACC 3033</a>	Intermediate Accounting II
Modification +Online/Distance	<a href="#">ACC 3053</a>	Accounting Information Systems II
Modification +Online/Distance	<a href="#">ACC 4013</a>	Income Tax I
+Online/Distance	<a href="#">ACC 4023</a> /6023	Advanced Accounting
Modification +Online/Distance	<a href="#">ACC 4033</a>	Auditing
Modification +Online/Distance	<a href="#">ACC 4043</a> /6043	Municipal and Governmental Accounting
Modification +Online/Distance	<a href="#">ACC 6063</a> (split level with 4063)	Income Tax II
Modification +Online/Distance	<a href="#">ACC 8013</a>	Seminar in Financial Accounting Theory
Modification +Online/Distance	<a href="#">ACC 8023</a>	Advanced Managerial Accounting
Modification +Online/Distance	<a href="#">ACC 8033</a>	Assurance and Audit Data Analysis
Modification +Online/Distance	<a href="#">ACC 8043</a>	Fraud Examination and Data Analysis
Modification +Online/Distance	<a href="#">ACC 8053</a>	Financial Accounting Policy
Modification +Online/Distance	<a href="#">ACC 8063</a>	Research in Tax Practice and Procedures
Modification +Online/Distance	<a href="#">ACC 8073</a>	Taxation of Corporations and Shareholders

Modification +Online/Distance	<a href="#">ACC 8093</a>	Taxation of Partnership, S Corporations, Trusts, and Estates
Modification +Online/Distance	<a href="#">ACC 8113</a>	Advanced Individual Taxation and Wealth Management
Modification +Online/Distance	<a href="#">ACC 8123</a>	Tax Topics
Addition +Online/Distance	<a href="#">ACC 8143</a>	Accounting Data Analytics
Modification +Online/Distance	<a href="#">ACC 8183</a>	International Accounting

## EDUCATION

+Online/Distance	<a href="#">PE 3133</a>	Adapted Physical Education
+Online/Distance	<a href="#">SS 2103</a>	Sports Careers and Practicum
Modification +Online/Distance	<a href="#">SS 3503</a>	Sport Recreational Leadership
Addition +Online/Distance	<a href="#">TECH 4333</a> /6333	Introduction to Computer Science
Addition +Online/Distance	<a href="#">TECH 4553</a>	Information Technology Processing

## ENGINEERING

Modification	<a href="#">CHE 8713</a>	Scientific Proposal Instruction and Development
+Online/Distance	<a href="#">GE 3513</a>	Technical Writing
Addition +Online/Distance	<a href="#">IE 8623</a>	Advanced Data Analytics for Complex Systems

### 4. Degree proposals by college/school

## AGRICULTURE AND LIFE SCIENCES

Modification	BS	Landscape Architecture
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## ARCHITECTURE, ART AND DESIGN

Addition	Minor	Lighting Design
Addition	MFA	Historic Preservation

## ARTS AND SCIENCES

Modification	BS	Chemistry
Modification	BA	Chemistry (renumbering)
Modification	BA	Chemistry (new concentration)

## BUSINESS

Addition Campus 1 & Campus 5	Minor (Graduate)	Accounting Data Analytics
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## ENGINEERING

+Online/Distance	MS	Cyber Security and Operations
+Online/Distance	PhD	Computer Science

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 and Life Sciences

**Department:** Landscape Architecture

**Contact Person:** Tim Schauwecker

**Mail Stop:** 9725

**E-mail:** tjs2@msstate.edu

**Nature of Change:** Updates to the curriculum

**Date Initiated:** Oct 7, 2020

**Effective Date:** Spring 2020

**Current Degree Program Name:** Bachelor of Science

**Major:** Landscape Contracting and Management

**Concentration:** N/A

**Summary of Proposed Changes:**

The proposed modifications will update a change to the name of our Accrediting organization, reflect changes to course offerings in other departments, and add new courses offered in the Department of Landscape Architecture and the Department of Plant and Soil Sciences.

The change to the degree description is an update to the national trade organization that has accredited our program. The organization has changed its name from the Professional Landcare Network (PLANET) to the National Association of Landscape Professionals (NALP). In addition, the order of information is altered to move the computer requirement description below the field experience requirement

The change to the coursework for the degree in the General Education requirements is in the Natural Sciences category and replaces BIO 2113 Plant Biology with either BIO 1023 Plants and Humans or PSS 1313 Plant Science. The rationale for this update is that the Plant Biology course requires BIO 1134 for enrollment, which is not necessary for our major. The BIO 1023 is a course for non-majors which includes a lab and is a very good introductory plant biology course for our students. PSS 1313 shares these attributes and gives us a second good option for scheduling.

LA 2253 Planting Design Fundamentals in Landscape Architecture was changed to LA 3653 Planting Design Fundamentals in Landscape Architecture, and this submission reflects this change. The class has been updated to include additional information to reflect the 3000-level designation.

The addition of Principles of Management MGT 3113 reflects the addition of that course to the offerings for the Minor in Business Administration. We anticipate that many students will still want to take the Entrepreneurship option, but that the faster path to the minor is also a good option.

Also included in the change is the removal of PSS 4414 Turfgrass Management and the addition of PSS 2113 Intro to Turf Science. PSS 2113 is a relatively new course being offered and is more in line with expectations upon graduation for my students than PSS 4414, which is largely geared toward turfgrass management careers rather than general landscape careers.

Finally, CO 1093 Honors Oral Communication is no longer offered in the Department of Communications, so we propose to remove it from the catalog description.

Approved:

Department Head

Chair, College or School Curriculum Committee

Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council(if applicable)

Chair, Deans Council

Date:

10/7/2020

10/15/20

10/16/2020

## DEGREE MODIFICATION OUTLINE FORM

Use the chart below to indicate your new 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.

CURRENT Degree Description		PROPOSED Degree Description	
<p>Degree: B.S. Major: Landscape Contracting and Management Concentration:</p> <p>A landscape contractor is a specialty contractor who provides the materials and services needed to make the landscape <i>architect's</i> project become a reality; and/or to provide the management <i>and maintenance</i> needed to keep the project in prime condition after implementation.</p> <p><i>All students in Landscape Contracting and Management are required to have their own personal computer. Students should check with the department for equipment specifications prior to purchasing.</i></p> <p>The Landscape Contracting and Management degree program at Mississippi State University, accredited by the <i>Professional Landcare Network (PLANET)</i>, requires three internships which involve three semesters of experiential learning and field experience with an approved landscape contracting company or agency; and, under supervision of a qualified supervisor and oversight of Mississippi State University faculty. In addition, two departmental field trips are specific curriculum requirements for this degree. A field trip fee will be assessed to specific courses. Upon successful completion of curriculum requirements, a student receives a Bachelor of Science degree in Landscape Contracting and Management.</p> <p>In as much as the published Bulletin of Mississippi State defines a letter grade of "D" as poor, The Department of Landscape Architecture requires that a grade of "C" or better is required to fulfill a major core requirement.*</p> <p>The department reserves the right to retain student work for the purpose of records, exhibition, instruction, industry review, etc. In addition to Mississippi State University policies, all students enrolled in this curriculum shall be required to abide by all approved departmental policies.</p> <p>* As published in the Department of Landscape Architecture policy manual.</p>		<p>Degree: B.S. Major: Landscape Contracting and Management Concentration:</p> <p>A landscape contractor is a specialty contract <b>professional</b> who provides the <b>expertise</b>, materials and services needed to make a landscape <b>design</b> project become a reality; and/or to provide the management <b>expertise</b> needed to keep the project in prime condition after <b>construction</b> implementation.</p> <p>The Landscape Contracting and Management degree program at Mississippi State University, accredited by the <b>National Association of Landscape Professionals (NALP)</b>, requires three internships which involve three semesters of experiential learning and field experience with an approved landscape contracting company or agency; and, under supervision of a qualified supervisor and oversight of Mississippi State University faculty. In addition, two departmental field trips are specific curriculum requirements for this degree. A field trip fee will be assessed to specific courses. Upon successful completion of curriculum requirements, a student receives a Bachelor of Science degree in Landscape Contracting and Management.</p> <p><b>All students in Landscape Contracting and Management are required to have their own personal computer. Students should check with the department for equipment specifications prior to purchasing.</b></p> <p>In as much as the published Bulletin of Mississippi State defines a letter grade of "D" as poor, The Department of Landscape Architecture requires that a grade of "C" or better is required to fulfill a major core requirement.*</p> <p>The department reserves the right to retain student work for the purpose of records, exhibition, instruction, industry review, etc. In addition to Mississippi State University policies, all students enrolled in this curriculum shall be required to abide by all approved departmental policies.</p> <p>* As published in the Department of Landscape Architecture policy manual.</p>	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
<p>English (Ex: EN 1103 English Comp I):</p> <p>EN 1103 English Comp I <i>or</i> EN 1163 Accelerated Comp I EN 1113 English Comp II <i>or</i> EN 1173 Accelerated Comp II</p>	6	<p>English (Ex: EN 1103 English Comp I):</p> <p>EN 1103 English Comp I <i>or</i> EN 1163 Accelerated Comp I EN 1113 English Comp II <i>or</i> EN 1173 Accelerated Comp II</p>	6

Fine Arts (General Education): Any Gen Ed course	3	Fine Arts (General Education): Any Gen Ed course	3
Natural Sciences (2 labs required from Gen Ed):  <i>BIO 2113 Plant Biology w/ lab</i>  and CH 1043 Survey of Chemistry I PSS 3303 Soils PSS 3301 Soils Lab	10	Natural Sciences (2 labs required from Gen Ed):  <b>BIO 1023 Plants and Humans w/ lab</b> <b>Or</b> <b>PSS 1313 Plant Science w/ lab</b>  and CH 1043 Survey of Chemistry I PSS 3303 Soils PSS 3301 Soils Lab	10
Extra Science (if appropriate)		Extra Science (if appropriate)	
Math (General Education): Any Gen Ed Course MA/ST 2113 Intro to Statistical Inference	6	Math (General Education): Any Gen Ed Course MA/ST 2113 Intro to Statistical Inference	6
Humanities (General Education):  FLS 1113 Spanish I FLS 1123 Spanish II	6	Humanities (General Education):  FLS 1113 Spanish I FLS 1123 Spanish II	6
Social/Behavioral Sciences (Gen Ed): EC 2113 Principles of Macroeconomics EC 2123 Principles of Microeconomics	6	Social/Behavioral Sciences (Gen Ed): EC 2113 Principles of Macroeconomics EC 2123 Principles of Microeconomics	6
Major Core Courses LA 1333 Landscape Systems and Plant Communities LA 1533 Presentation Methods & Media LA 1701 Landscape Professionals Career Paths Seminar PSS 2423 Plant Materials I ACC 2013 Principles of Financial Accounting ACC 2023 Principles of Managerial Accounting EPP 3423 Ornamental & Turfgrass Insects LA 1153 Introduction to Landscape Architecture LA 1711 Landscape Contracting Internship I <i>LA 2253 Planting Design Fundamentals in Landscape Architecture</i> LA 2544 Landscape Architecture Construction I: Materials LA 2644 Landscape Architecture Construction II: Grading LA 2711 Landscape Contracting Internship II LA 3701 Landscape Contracting Seminar II LA 3711 Landscape Contracting Internship III LA 3721 Landscape Contracting Field Trip I LA 4344 Landscape Architecture Construction IV LA 4701 Landscape Contracting Seminar III LA 4721 Landscape Contracting Field Trip II LA 4724 Landscape Contracting II LA 4753 Sustainable Landscape Management	86	Major Core Courses LA 1333 Landscape Systems and Plant Communities LA 1533 Presentation Methods & Media LA 1701 Landscape Professionals Career Paths Seminar PSS 2423 Plant Materials I ACC 2013 Principles of Financial Accounting ACC 2023 Principles of Managerial Accounting EPP 3423 Ornamental & Turfgrass Insects LA 1153 Introduction to Landscape Architecture LA 1711 Landscape Contracting Internship I <b>LA 3653 Planting Design Fundamentals in Landscape Architecture</b> LA 2544 Landscape Architecture Construction I: Materials LA 2644 Landscape Architecture Construction II: Grading LA 2711 Landscape Contracting Internship II LA 3701 Landscape Contracting Seminar II LA 3711 Landscape Contracting Internship III LA 3721 Landscape Contracting Field Trip I LA 4344 Landscape Architecture Construction IV LA 4701 Landscape Contracting Seminar III LA 4721 Landscape Contracting Field Trip II LA 4724 Landscape Contracting II LA 4753 Sustainable Landscape Management	87



<b>MGT 3323 Entrepreneurship</b>  MGT 3513 Intro Human Resource Management MKT 3013 Principles of Marketing PSS 3133 Intro to Weed Science PSS 3473 Plant Materials II PSS 4353 Arboriculture <i>PSS 4414 Turfgrass Management</i> BL 3223 Law of Commercial Transactions Or BL 2413 Legal Environment of Business  <b>Computer Literacy Requirement</b> LA 1223 Use of Computer in Landscape Arch <b>Elective</b> 3 hours <b>Oral Communication Requirement</b> CO 1003 Fundamentals of Public Speaking <i>or</i> <i>CO 1093 Honors Oral Communication</i> <b>Writing Requirement</b> LA 4723 Professional Practice in Landscape Architecture		<b>MGT 3323 Entrepreneurship</b> Or <b>MGT 3113 Principles of Management</b> MGT 3513 Intro Human Resource Management MKT 3013 Principles of Marketing PSS 3133 Introduction to Weed Science PSS 3473 Plant Materials II PSS 4353 Arboriculture <b>PSS 2113 Introduction to Turfgrass Science</b> BL 3223 Law of Commercial Transactions Or BL 2413 Legal Environment of Business  <b>Computer Literacy Requirement</b> LA 1223 Use of Computer in Landscape Arch <b>Elective</b> 3 hours <b>Oral Communication Requirement</b> CO 1003 Fundamentals of Public Speaking  <b>Writing Requirement (3 hours)</b> LA 4723 Professional Practice in Landscape Architecture	
Concentration Courses		Concentration Courses	
Total Hours	123	Total Hours	124

## JUSTIFICATION AND STUDENT LEARNING OUTCOMES

The proposed modifications will update a change to the name of our Accrediting organization, reflect changes to course offerings in other departments, and add new courses offered in the Department of Landscape Architecture and the Department of Plant and Soil Sciences.

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

Local, state, regional and national educational and cultural needs will continue to be met by this program change.

2. Will this program change result in duplication in the System? If so, please describe.

No change, there will not be duplication in the System.

3. Will this program change/advance student diversity within the discipline? If so, please describe.

No change.

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.

No change.

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 change.

#### SUPPORT

See attached letters of support

#### PROPOSED 4-LETTER ABBREVIATION

No Change

#### EFFECTIVE DATE

Spring 2021



**MISSISSIPPI STATE**  
UNIVERSITY™

COLLEGE OF ARTS & SCIENCES  
DEPARTMENT OF BIOLOGICAL SCIENCES

P.O. Box GY  
295 E Lee Blvd  
Mississippi State, MS 39762  
P. 662.325.3120  
F. 662.325.7939  
[www.biology.msstate.edu](http://www.biology.msstate.edu)

September 20, 2019

Dr. Timothy Schauwecker  
Coordinator, Landscape Contracting and Management Program  
Department of Landscape Architecture  
Mississippi State University

Dear Dr. Schauwecker,

The Biology Undergraduate Curriculum Committee has reviewed the proposed curriculum changes that you are submitting for the Landscape Contracting and Management concentration. The committee unanimously supports the change. If you have any questions, please feel free to contact any member of the committee.

Sincerely,

Diana Outlaw  
Associate Professor, Chair

Brandy Roberts  
Academic Advisor

Christopher Brooks  
Associate Professor

Christopher Brooks  
2019.09.25 10:57:55  
-05'00'

Tom Holder  
Instructor

Evan Kaplan  
Instructor

Undergraduate Curriculum Committee

Christopher Brooks	Tom Holder
Evan Kaplan	Diana Outlaw

Brandy Roberts



**MISSISSIPPI STATE**  
UNIVERSITY™

COLLEGE OF AGRICULTURE & LIFE SCIENCES  
Department of Plant and Soil Sciences

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

P. 662.325.2311  
F. 662.325.8742

[www.pss.msstate.edu](http://www.pss.msstate.edu)

January 10, 2020

Tim Schauwecker  
Mailstop 9725  
LA Facility Suite C103  
Mississippi State, MS 39762

Dear Dr. Schauwecker:

The PSS Courses and Curriculum Committee discussed the proposed Landscape Contracting degree modification including the incorporation of PSS 1313 as a general education requirement. The committee found the inclusion of **PSS 1313 Plant Science** as a general education requirement in Landscape Contracting is not expected to strain the current enrollment limits of the course excessively.

The PSS Courses and Curriculum Committee **supports** the inclusion of PSS 1313 Plant Science as a general education requirement in the modified Landscape Contracting curriculum.

Sincerely,

Richard L. Harkess, Professor  
PSS Courses and Curriculum Committee, chair

PSS Courses and Curriculum Committee:

Michael Cox  
Cole Etheredge  
William Kingery  
David Lang  
Fred Musser  
Dan Reynolds  
Barry Stewart  
Cindy Williams

c: Darrin Dodds, Dept. Head, PSS

APPROVAL FORM FOR

# DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

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

**College:** College of Architecture, Art, and Design

**Department:** Interior Design

**Contact Person:** Robin Carroll

**Mail Stop:** 9543

**E-mail:** rcarroll@caad.msstate.edu

**Nature of Change:** New Minor

**Date Initiated:** 6/22/2020

**Effective Date:** Spring 2021

**Current Degree Program Name:**

**Major:**

**Concentration:**

**New Degree Program Name:** Lighting Design Minor

**Major:**

**Concentration:**

**Summary of Proposed Changes:**

Lighting Design is a new minor being offered in the College of Architecture, Art, and Design. The Lighting Design Minor is funded in part by The Nuckoll's Fund for Lighting Education. The minor will provide students with the opportunity to study new technological advances and design in the field of lighting. The minor will enable students to explore the intersection between lighting and their primary degree. The integration of the disciplines such as architecture, art, and communications will substantially enhance the student's education and prepare them for a broader range of employment options.

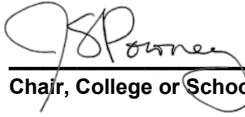
**Approved:**

**Date:**



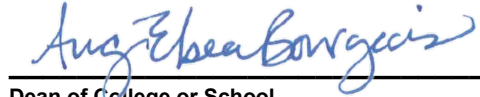
Department Head

7/6/2020



Chair, College or School Curriculum Committee

9/11/2020



Dean of College or School

11.2.2020

Chair, University Committee on Courses and Curricula

Chair, Graduate Council(if applicable)

Chair, Deans Council

## NEW DEGREE OUTLINE FORM

Use the chart below to indicate your new 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. Expand rows as needed.

<b>PROPOSED New Degree</b>											
Degree: Minor Lighting Design											
<p>Lighting Design is a new minor being offered in the College of Architecture, Art, and Design. The Lighting Design Minor is funded in part by The Nuckoll's Fund for Lighting Education. The minor will provide students with the opportunity to study new technological advances and design in the field of lighting. The minor will enable students to explore the intersection between lighting and their primary degree. The integration of the disciplines such as architecture, art, and communications will substantially enhance the student's education and prepare them for a broader broader range of employment options.</p>											
<p><b>Catalog Description:</b> The Lighting Design minor provides students with the opportunity to study new technological advances and design in the field of lighting. Students not in The College of Architecture, Art, and Design who are interested in this minor should contact an Interior Design Advisor. In order to be successful in this minor, you must be able to use AutoCAD or similar software. The minor will enable students to explore the intersection between lighting and their primary degree. The integration of the disciplines will substantially enhance the student's education and prepare them for a broader range of employment options.</p>											
<p><b>Course Selection</b></p> <p>Students are required to take 15 credit hours from the courses listed below. Some courses require Instructor permission. Additionally, students must follow the appropriate prerequisites for the listed courses.</p>											
<b>Proposed Curriculum Outline</b>	<b>Hours</b>										
<p><b>Current Course Listing</b></p> <table><tr><td>ID 3663 Color &amp; Lighting for Interiors</td><td>3</td></tr><tr><td>ID 4673 Integrated Lighting Solutions</td><td>3</td></tr><tr><td>ID 4683 Lessons from the Theatre: Architectural Lighting Design</td><td>3</td></tr><tr><td>ART 3233 Studio Lighting</td><td>3</td></tr><tr><td>CO 2524 Stagecraft &amp; Lighting</td><td>3</td></tr></table> <p><b>See advisor for list of other courses approved by Interior Design Department.</b></p>		ID 3663 Color & Lighting for Interiors	3	ID 4673 Integrated Lighting Solutions	3	ID 4683 Lessons from the Theatre: Architectural Lighting Design	3	ART 3233 Studio Lighting	3	CO 2524 Stagecraft & Lighting	3
ID 3663 Color & Lighting for Interiors	3										
ID 4673 Integrated Lighting Solutions	3										
ID 4683 Lessons from the Theatre: Architectural Lighting Design	3										
ART 3233 Studio Lighting	3										
CO 2524 Stagecraft & Lighting	3										

## **Student Learning Outcomes**

The curriculum includes classes which cover both conceptual designs and hands-on learning. The students will discover the science and art of architectural lighting, luminaires and light sources, natural and artificial lighting. The courses include workshops and lab activities, allowing students to tailor their experiences to their major degree with a blend of different spaces including commercial, residential, hospitality, museums, theatres, and retail projects. Students will gain the understanding that there are many different ways to design with light. The broader their learning experience, the more complex and rich their own designs can become.

The overall learning outcomes will be assessed by measures embedded in course assignments.

- Evaluation of hands-on lab applications
- Analysis of lighting workshops
- Assessment of team projects and individual projects
- Testing on lectures and demonstrations

## **Students completing the Lighting Design Minor will be able to:**

- gain an appreciation for lighting design and the aesthetics of light
- gain a deeper understanding of the fundamentals of visual performance, visual perception, photometry, color and optics, including an overview of non-visual effects of light
- acquire hands-on experience with angles of light and lighting metrics/measurement tools
- explore color mixing into spaces
- design with daylight and artificial light as form and material in spaces
- learn the latest about emerging lighting technologies
- analyze the changing nature of luminaire design and lighting design
- investigate advanced principles and techniques of lighting design as an integrated material in interior spaces





**MISSISSIPPI STATE**  
UNIVERSITY™

**College of Architecture Art + Design**

Department of Art

P.O. Box 5187  
415 Barr Avenue  
Mississippi State, MS 39762

P. 662.325.2970

F. 662.325.3850  
[www.caad.msstate.edu](http://www.caad.msstate.edu)

June 5, 2020

Professor Robin Carroll  
125 Etheredge Hall  
449 Hardy Road  
Mississippi State University

Dear Professor Carroll,

The Department of Art is pleased to support a lighting minor in the College of Architecture Art & Design. We agree that ART3233 Studio Lighting will serve as a valuable course toward this minor and approve including as a requirement. Please note that ART2103 Photo Survey is a pre-requisite to this course. This pre-requisite can be waived only with consent of the instructor.

Please let me know if I can be of further assistance.

Sincerely,

Critz Campbell  
Associate Professor and Head  
Department of Art  
Mississippi State University  
662-325-8926



**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](http://www.comm.msstate.edu)

Robin Carroll  
Associate Professor  
Department of Interior Design  
College of Art, Architecture, and Design

Regarding: Minor in Lighting Design

Professor Carroll:

It is with great pleasure that I agree to accept students in the Interior Design program at Mississippi State into the following Communications courses as part of the developing Minor in Lighting Design:

CO 2524 *Stagecraft & Lighting*  
CO 4990 *Lighting and Sound Design*

The Department of Communications is thrilled to blend traditional training boundaries between architecture and theatre, and we look forward to additional collaborations as the departments further develop their course offerings in Lighting Design for performance and architectural environments.

It is preferred that students contact the appropriate Communications faculty directly prior to enrollment in any CO course, to ensure that a seat will be reserved for them.

Note that CO 4990 *Lighting and Sound Design* is currently offered on a trial basis and could be adjusted or retitled in future offerings. It is the Communication Department's intention to continue to offer a course (or courses) in theatrical lighting and sound design, and any revisions will be communicated well in advance to the Interior Design department.

Please contact Matt Webb with any questions, and congratulations on creating a Minor in Lighting Design!

Sincerely,

Matt

Matthew Webb  
Assistant Clinical Professor  
Department of Communications, Theatre Emphasis  
College of Arts and Sciences



**MISSISSIPPI STATE**  
UNIVERSITY™

**COLLEGE OF ARCHITECTURE, ART AND DESIGN**

Interior Design Program

P.O. Box 6227

Etheredge Hall | 449 Hardy Road

Mississippi State, MS 39762

P. 662.325.0530

F. 662.325.5754 [caad.msstate.edu](http://caad.msstate.edu)

Robin Carroll and the CAAD College Curriculum Committee  
Suite B, Butler-Williams Building  
100 Walker Road  
Mailstop 9699

July 6, 2020

**RE: Addition of Lighting Minor**

The Interior Design Program faculty is in support of the addition of the Lighting Minor per our curriculum committee voting in July.

All of our faculty, listed below (including myself) are in support of these changes and have approved this document through the attached approval email thread.

Faculty:

Lyndsey Miller

Jeff Fulton

Ashley Hughes

Anna Chaney

Thank you,

Amy Crumpton, Associate Professor, Interior Design Program Curriculum Committee Chair  
Associate Professor, Interior Design  
Mississippi State University  
449 Hardy Road  
Mississippi State, MS 39762  
662.325.5753

**From:** [Miller, Beth](#)  
**To:** [Crumpton, Amy](#); [Fulton, Glen](#); [Studdard Hughes, Ashley](#); [Miller, Lyndsey](#)  
**Cc:** [Carroll, Robin](#); [Chaney, Anna](#); [Carroll, Robin](#)  
**Subject:** RE: PLEASE REVIEW AND REPLY: Lighting Design Minor  
**Date:** Sunday, June 28, 2020 9:26:10 PM  
**Attachments:** [Lighting Design Minor - Interior Design brm edits.pdf](#)

---

Amy and Robin,

I think it looks really good and I am so excited for Interior Design and the many possibilities a Lighting minor will bring to ID. Great job! I had a couple of notes or questions and my file is attached.

Thanks for all of your hard work on this Robin and thank you Amy for all of your direction and assistance you provide to all of us on UCCCC matters.

Beth

---

**From:** Crumpton, Amy <ACrumpton@caad.msstate.edu>  
**Sent:** Thursday, June 25, 2020 4:25 PM  
**To:** Fulton, Glen <jfulton@caad.msstate.edu>; Studdard Hughes, Ashley <ahughes@caad.msstate.edu>; Miller, Lyndsey <llamas@caad.msstate.edu>  
**Cc:** Carroll, Robin <RCarroll@caad.msstate.edu>; Chaney, Anna <achaney@caad.msstate.edu>; Miller, Beth <BMiller@caad.msstate.edu>; Carroll, Robin <RCarroll@caad.msstate.edu>  
**Subject:** RE: PLEASE REVIEW AND REPLY: Lighting Design Minor

Sorry – forgot the attachment!

Amy Crumpton, ASID, IDEC, NCIDQ 12935, LEED AP ID+C  
Associate Professor, Interior Design  
Mississippi State University  
449 Hardy Road  
Mississippi State, MS 39762  
662.325.5753

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**Cc:** Carroll, Robin <[RCarroll@caad.msstate.edu](mailto:RCarroll@caad.msstate.edu)>; Chaney, Anna <[achaney@caad.msstate.edu](mailto:achaney@caad.msstate.edu)>; Miller, Beth ([BMiller@caad.msstate.edu](mailto:BMiller@caad.msstate.edu)) <[BMiller@caad.msstate.edu](mailto:BMiller@caad.msstate.edu)>; Carroll, Robin ([RCarroll@caad.msstate.edu](mailto:RCarroll@caad.msstate.edu)) <[RCarroll@caad.msstate.edu](mailto:RCarroll@caad.msstate.edu)>  
**Subject:** PLEASE REVIEW AND REPLY: Lighting Design Minor

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I need the Following people to Vote:

Jeff

Lyndsey

Ashley

I'm assuming Robin will vote Yes 😊

Anna and Beth Don't have to vote. When I get everyone's reply I will put together a letter from the ID Curriculum committee for the documentation

Thanks for your reply! Hope you guys are staying well!

Amy Crumpton, ASID, IDEC, NCIDQ 12935, LEED AP ID+C  
Associate Professor, Interior Design  
Mississippi State University  
449 Hardy Road  
Mississippi State, MS 39762  
662.325.5753

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**From:** Carroll, Robin <[RCarroll@caad.msstate.edu](mailto:RCarroll@caad.msstate.edu)>

**Sent:** Wednesday, June 24, 2020 7:48 PM

**To:** Crumpton, Amy <[ACrumpton@caad.msstate.edu](mailto:ACrumpton@caad.msstate.edu)>

**Subject:** Lighting Design Minor

Amy,

I have attached the changes needed for the Lighting Design Minor. Thank you so much for your help with this. Please let me know if there are any questions and if I need to complete anything else.

Thanks, again!

Robin Carroll, CLC  
Assistant Professor, Interior Design  
IES, IALD, IDEC, Allied ASID

**From:** [Chaney, Anna](#)  
**To:** [Crumpton, Amy](#)  
**Subject:** Re: Are you good with the lighting minor?  
**Date:** Wednesday, July 1, 2020 1:00:09 PM

---

Yes. I'm sorry, I am. Thanks!!

Get [Outlook for iOS](#)

---

**From:** Crumpton, Amy <ACrumpton@caad.msstate.edu>  
**Sent:** Wednesday, July 1, 2020 11:37:23 AM  
**To:** Chaney, Anna <achaney@caad.msstate.edu>  
**Subject:** Are you good with the lighting minor?

I have to make sure if we have a consensus for the letter of support from the ID curriculum committee of which all full time faculty are members !

Get [Outlook for iOS](#)

**From:** [Fulton, Glen](#)  
**To:** [Crumpton, Amy](#)  
**Subject:** RE: PLEASE REVIEW AND REPLY: Lighting Design Minor  
**Date:** Thursday, June 25, 2020 4:28:47 PM

---

Amy,  
I think it looks good and will certainly give it a 'YES'.  
Jeff

---

**From:** Crumpton, Amy <ACrumpton@caad.msstate.edu>  
**Sent:** Thursday, June 25, 2020 4:25 PM  
**To:** Fulton, Glen <jfulton@caad.msstate.edu>; Studdard Hughes, Ashley <ahughes@caad.msstate.edu>; Miller, Lyndsey <llamas@caad.msstate.edu>  
**Cc:** Carroll, Robin <RCarroll@caad.msstate.edu>; Chaney, Anna <achaney@caad.msstate.edu>; Miller, Beth <BMiller@caad.msstate.edu>; Carroll, Robin <RCarroll@caad.msstate.edu>  
**Subject:** RE: PLEASE REVIEW AND REPLY: Lighting Design Minor

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I need the Following people to Vote:

Jeff  
Lyndsey  
Ashley  
I'm assuming Robin will vote Yes 😊

Anna and Beth Don't have to vote. When I get everyone's reply I will put together a letter from the ID Curriculum committee for the documentation  
Thanks for your reply! Hope you guys are staying well!

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**Sent:** Wednesday, June 24, 2020 7:48 PM  
**To:** Crumpton, Amy <[ACrumpton@caad.msstate.edu](mailto:ACrumpton@caad.msstate.edu)>  
**Subject:** Lighting Design Minor

Amy,

I have attached the changes needed for the Lighting Design Minor. Thank you so much for your help with this. Please let me know if there are any questions and if I need to complete anything else.

Thanks, again!

Robin Carroll, CLC  
Assistant Professor, Interior Design  
IES, IALD, IDEC, Allied ASID



**From:** [Studdard Hughes, Ashley](#)  
**To:** [Crumpton, Amy](#)  
**Cc:** [Fulton, Glen](#); [Miller, Lyndsey](#); [Carroll, Robin](#); [Chaney, Anna](#); [Miller, Beth](#)  
**Subject:** Re: PLEASE REVIEW AND REPLY: Lighting Design Minor  
**Date:** Sunday, June 28, 2020 4:40:30 PM

---

I vote to move the proposal forward. Great work.

Ashley Hughes

Sent from my iPhone

On Jun 25, 2020, at 4:24 PM, Crumpton, Amy <[ACrumpton@caad.msstate.edu](mailto:ACrumpton@caad.msstate.edu)> wrote:

Sorry – forgot the attachment!

Amy Crumpton, ASID, IDEC, NCIDQ 12935, LEED AP ID+C  
Associate Professor, Interior Design  
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I'm assuming Robin will vote Yes 😊

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Thanks for your reply! Hope you guys are staying well!

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Thanks, again!

Robin Carroll, CLC  
Assistant Professor, Interior Design  
IES, IALD, IDEC, Allied ASID

<Lighting Design Minor - Interior Design.pdf>

**From:** [Miller, Lyndsey](#)  
**To:** [Studdard Hughes, Ashley](#); [Crumpton, Amy](#)  
**Cc:** [Fulton, Glen](#); [Carroll, Robin](#); [Chaney, Anna](#); [Miller, Beth](#)  
**Subject:** RE: PLEASE REVIEW AND REPLY: Lighting Design Minor  
**Date:** Wednesday, July 1, 2020 10:23:55 AM

---

It all looks great! I vote to move the proposal forward as well.

Lyndsey

---

**From:** Studdard Hughes, Ashley <[ahughes@caad.msstate.edu](mailto:ahughes@caad.msstate.edu)>  
**Sent:** Sunday, June 28, 2020 4:40 PM  
**To:** Crumpton, Amy <[ACrumpton@caad.msstate.edu](mailto:ACrumpton@caad.msstate.edu)>  
**Cc:** Fulton, Glen <[jfulton@caad.msstate.edu](mailto:jfulton@caad.msstate.edu)>; Miller, Lyndsey <[llamas@caad.msstate.edu](mailto:llamas@caad.msstate.edu)>; Carroll, Robin <[RCarroll@caad.msstate.edu](mailto:RCarroll@caad.msstate.edu)>; Chaney, Anna <[achaney@caad.msstate.edu](mailto:achaney@caad.msstate.edu)>; Miller, Beth <[BMiller@caad.msstate.edu](mailto:BMiller@caad.msstate.edu)>  
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**Cc:** Carroll, Robin <[RCarroll@caad.msstate.edu](mailto:RCarroll@caad.msstate.edu)>; Chaney, Anna

<[achaney@caad.msstate.edu](mailto:achaney@caad.msstate.edu)>; Miller, Beth ([BMiller@caad.msstate.edu](mailto:BMiller@caad.msstate.edu))  
<[BMiller@caad.msstate.edu](mailto:BMiller@caad.msstate.edu)>; Carroll, Robin ([RCarroll@caad.msstate.edu](mailto:RCarroll@caad.msstate.edu))  
<[RCarroll@caad.msstate.edu](mailto:RCarroll@caad.msstate.edu)>

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Thanks, again!

Robin Carroll, CLC  
Assistant Professor, Interior Design  
IES, IALD, IDEC, Allied ASID

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: Architecture, Art, and Design      Department: Interior Design

Contact Person: Dr. Beth Miller      Mail Stop: 9543      E-mail: bmillers@caad.msstate.edu  
Nature of Change: New Program      Date Initiated: August 2020      Effective Date: Fall 2021

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

New Degree Program Name: Master of Fine Arts (MFA)

Major: Historic Preservation      Concentration: N/A

**Summary of Proposed Changes:**

This proposal requests approval for a new Master of Fine Arts in Historical Preservation degree for Mississippi State University campus 1. The Master of Fine Arts degree in Historical Preservation focuses on historic preservation combined with preservation field studies. Upon successful completion of the program, students will possess the skills necessary to educate diverse populations and promote historic preservation while employed with non-profit organizations, government agencies, cities, museums, private companies, and academia. Students will complete course work in: history of American architecture, landscape architecture, and interiors; investigation and documentation of structures, interiors, and sites; adaptive reuse of existing buildings and intervention approaches; building materials conservation; historic preservation and conservation; preservation economics and advocacy; conservation of interior details, furniture, materials, and finishes; and additional preservation related courses available as electives. The program will promote the land-grant mission of Mississippi State University through community engagement and social and economic development provided by future leaders educated in historic preservation.

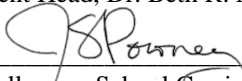
Approved:

Date:



9/4/2020

Department Head, Dr. Beth R. Miller



10/30/2020

Chair, College or School Curriculum Committee,  
Suzanne Powney



11.2.2020

Dean of College or School  
Dr. Angi Bourgeois

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

Chair, Graduate Council(if applicable)

Chair, Deans Council

## New Degree Program Outline

Use the chart below to indicate your new degree outline. Please list required College and Major Required Courses and if appropriate Concentration Courses. Graduate programs that wish to specialize beyond the Major must have at least two concentrations. Add additional rows as needed for programs with more than two concentrations. Expand rows as needed.

<b>PROPOSED New Degree</b>	
Degree: Master of Fine Arts in Historic Preservation	
Major: Historic Preservation	
Concentration 1: N/A	
Concentration 2: N/A	
The Master of Fine Arts degree in Historical Preservation focuses on historic preservation combined with preservation field studies. Upon successful completion of the program, students will possess the skills necessary to educate diverse populations and promote historic preservation while employed with non-profit organizations, government agencies, cities, museums, private companies, and in academia. Students will complete course work in: history of American architecture, landscape architecture, and interiors; investigation and documentation of structures, interiors, and sites; adaptive reuse of existing buildings and intervention approaches; building materials conservation; historic preservation and conservation; preservation economics and advocacy; conservation of interior details, furniture, materials, and finishes; and additional preservation related courses available as electives.	
Concentration description: N/A	
<b>Proposed Curriculum Outline</b>	<b>Required Hours</b>
College Required Courses: none	
Major Required Courses:	
ID 6403: Introduction to Historic Preservation	3
ID 8153: History of American Architecture and Landscape Architecture	3
ARC 6623: Historic Preservation Research Methods	3
ID 8000: Thesis Research/Thesis in Historic Preservation OR	
ID 8010: Practicum	6
ID 8163: Preservation Law	3
ID 8253: Adaptive Reuse of Existing Buildings	3
ID 8263: Interior Details, Furniture, Materials, and Finishes	3
GR 6303: Principles of GIS	3
ID 8273: Building Materials Conservation	3
ID 8274: Research Analysis Methods in Historic Preservation	3
ID 8353: Internship	3
ID 8453: Preservation Field Studies I	3
ID 8463: Historic Preservation Planning	3
ID 8483: Preservation Economics/Advocacy	3
ID 8553: Preservation Field Studies II	3
Additional approved electives	12
<b>Total Hours</b>	<b>60</b>
<ul style="list-style-type: none"> <li>At least 30 credit hours of GPA-graded coursework must be taken at the 8000-level or higher.</li> <li>A student that has taken any of the above courses for undergraduate credit may use the undergraduate course to satisfy the graduate requirement for that course, however they must substitute another graduate-level course selected from the additional approved elective courses.</li> <li>Master's Thesis or Practicum Within the minimum of 60 hours of coursework, students are required to complete a written thesis or practicum which must be approved by their thesis committee or practicum advisor. The thesis committee will consist of at least three members, of which two will be graduate faculty at MSU. Additional members could be industry representative(s). The practicum is practice based and may include research, documentation, drawings, on-site- experience, analysis, synthesis, and its completion should add to the body of knowledge in historic preservation.</li> </ul>	

**Appendix 8: New Degree Program Proposal**  
**(Submit Appendix 8 in both PDF and Word Document Formats)**

<b>Institution:</b>			
<b>Date of Implementation:</b>	<b>Incremental, Six-Year Cost of Implementation:</b>	<b>Incremental, Six-Year Per Student Cost of Implementation:</b>	
Fall 2021	\$ 425,795.20	\$ 3,154.04	
<b>Will it attract new students to the university?</b>	<b>Potential Six-Year, New Revenue:</b>	<b>Potential New, Six-Year Revenue Per Student:</b>	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	\$ 1,277,385.60	\$ 28,386.35	
<b>Program Title as will Appear on Academic Program Inventory, Diploma, and Transcript:</b>			
Historic Preservation		<b>Six-Digit CIP Code:</b>	
		30.1201	
<b>Name of Degree(s) to be Awarded:</b>		<b>Total Credit Hour Requirements to earn the degree:</b>	
Master of Fine Arts		60	
<b>List any institutions within the state offering similar programs:</b>			
Presently there are no institutions within the state of Mississippi offering a Master of Fine Arts in Historic Preservation.			
<b>Responsible Academic Unit(s):</b>		<b>Institutional Contact: Dr. Beth R. Miller</b>	
Interior Design		<b>Phone: 662-325-7689</b>	
		<b>Email: bmiller@caad.msstate.edu</b>	
<b>Check one of the boxes below related to SACSCOC Substantive Changes.</b>			
<input checked="" type="checkbox"/> <b>Proposed Program is <u>Not</u> a Substantive Change</b>		<input type="checkbox"/> <b>Proposed Program <u>is</u> a Substantive Change</b>	
<b>Number of Students Expected to Enroll in First Six Years:</b>		<b>Number of Graduates Expected in First Six Years:</b>	
Year One	5	Year One	0 (2 year degree)
Year Two	8	Year Two	3
Year Three	10	Year Three	6
Year Four	12	Year Four	9
Year Five	15	Year Five	12
Year Six	18	Year Six	15
<b>Total</b>	<b>68</b>	<b>Total</b>	<b>45</b>

**Program Summary:**

There are currently no historic preservation master's degree programs in any publicly funded state institution in states contiguous to Mississippi. Presently, Mississippi State University's Interior Design Program offers the only historic preservation course in the state. This course has been the foundation for developing a Master of Fine Arts in Historic Preservation within the Interior Design Program, College of Architecture, Art and Design. A Master of Fine Arts is considered a terminal degree and requires 60 hours of course work. Peer institutions with a Master of Science in Historic Preservation require similar numbers of hours; Clemson University requires 60 semester hours, the University of Georgia 60 semester hours, and the University of Kentucky 48 semester hours, however, their degrees do not result in a Master of Fine Arts. Mississippi State University's Master of Fine Arts in Historic Preservation will culminate in a terminal degree, one of the few degrees of its kind in the United States and will become a valuable recruiting tool for the proposed master's program.

Through partnerships with the Mississippi Department of Archives and History, the Mississippi Heritage Trust, Preservation Society of Columbus, and over 100 Mississippi historic societies, the Interior Design Program will develop a network of resources, opportunities, research, grants, projects, and curriculum to create a competitive master's degree in Historic Preservation. The Master of Fine Arts degree in Historic Preservation focuses on historic preservation combined with preservation field studies. The Preservation Society of Columbus and the City of Columbus will partner with Mississippi State University's Master of Fine Arts in Historic Preservation to become a field study laboratory providing students with opportunities for real project experience in historic preservation.

Upon successful completion of the program, students will possess the skills necessary to educate diverse populations and promote historic preservation while employed with non-profit organizations, government agencies, cities, museums, private companies, and in academia. Students will complete course work in: history of American architecture, landscape architecture, and interiors; investigation and documentation of structures, interiors, and sites; adaptive reuse of existing buildings and intervention approaches; building materials conservation; historic preservation and conservation; preservation economics and advocacy; conservation of interior details, furniture, materials, and finishes; and additional preservation related courses available as electives. The program will promote the land-grant mission of Mississippi State University through community engagement and social and economic development provided by future leaders educated in historic preservation.

\_\_\_\_\_  
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.

We are requesting program approval for MSU Campus 1. The Master of Fine Arts in Historic Preservation program will be administered by the Acting Interior Design Graduate Degree Coordinator, Dr. Beth R. Miller, Director of Interior Design. Professor G. Jeff Fulton will be assisting as the Historic Preservation Degree Coordinator.

A master's level historic preservation advisory committee, consisting of full-time Faculty in Interior Design and experts in the field of historic preservation was formed for initial curriculum development. This advisory committee consists of;

Dr. Beth R. Miller, Director and Professor, Acting Graduate Degree Coordinator

Professor G. Jeff Fulton, Assistant Professor and MFA Historic Preservation Degree Coordinator

Professor Amy Crumpton, Associate Professor, Curriculum Coordinator

Lolly Rash, Executive Director, Mississippi Heritage Trust, M.A.

Claire Cothren Winn, Director Programs, Mississippi Heritage Trust, M.H.P.

Carter Burns, Executive Director, Historic Natchez Foundation, M.H.P., J.D.



Barry White, Director Historic Preservation, Mississippi Department of Archives and History, M.A.

Ongoing curriculum development and review will be the responsibility of the Interior Design Graduate Degree Coordinator and the MFA Historic Preservation Degree Coordinator. In addition, the ID Curriculum Committee will serve in an advisory role with ongoing curriculum development and review. Currently the ID Curriculum Committee members are;

Professor Amy Crumpton, Associate Professor

Professor Lyndsey Miller, Associate Professor

Professor Robin Carroll, Assistant Professor

Professor Ashley Hughes, Assistant Professor

Instructor Anna Chaney, Instructor

Continuing program review will be the responsibility of the Graduate Degree Program Coordinator and the MFA Historic Preservation Degree Coordinator. These individuals will be responsible for admissions, advising, and programmatic decisions. Currently, these faculty members are;

Dr. Beth R. Miller, Director and Professor, Acting Graduate Degree Program Coordinator

Professor G. Jeff Fulton, Assistant Professor and MFA Historic Preservation Degree Coordinator

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

#### Educational Objectives:

1. Graduates will be equipped to perform in historic preservation occupations with non-profit organizations, government agencies, community development, urban development, museums, private-sector firms, and in academia.
2. Graduates will be proficient in areas of design, technology, economics, law, planning, and curating as it pertains to historic preservation.
3. Graduates will have the skills necessary to convey effective leadership, management, and communication practices.
4. Graduates will have a comprehensive understanding and knowledge of historic preservation as it pertains to history and theory of the designed environment; history and theory of preservation; documentation and recording techniques; practical field application, application-based projects, practicum and communication skills; and an area of concentration in a related field.

#### Assessment Methods:

Students will have extensive assessments in each course during their graduate program of study. These measurements of their coursework will include but are not limited to; essays, multiple choice exams and tests, oral presentations, field work documentation, videos, and culminates with a master's thesis or practicum.

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

Admissions requirements for this program will follow guidelines set forth by the Graduate School at MSU and documented in the Graduate Catalog. In addition, there is one undergraduate prerequisite course required if an admittee does not have a design related degree; ID Graphics 1683. A grade of C or better is required in the prerequisite course and should be taken at Mississippi State University in the summer prior to admission, or for a late admittee the course may be taken in the fall of the first semester of graduate school.

Prerequisite Course is listed below;

- ID 1683 Interior Design Graphics

Applicants will be jointly reviewed by the Graduate Degree Program Coordinator and the MFA Historic Preservation Degree Coordinator. Admission into the program will be determined by the Graduate Degree Program Coordinator and the MFA Historic Preservation Degree Coordinator. Currently, these faculty members are;

Dr. Beth R. Miller, Director and Professor, Acting Graduate Degree Program Coordinator

Professor G. Jeff Fulton, Assistant Professor and MFA Historic Preservation Degree Coordinator

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.

This degree program will pursue membership in the National Council for Preservation Education (NCPE). Since there is no official accreditation body for Historic Preservation, NCPE serves to ensure that members of NCPE have proven excellence and marketability as authorities in the field of historic preservation. NCPE has established academic requirements in the field of historic preservation and has instituted historic preservation standards which must be achieved. These academic requirements and standards are evaluated for membership acceptance.

5. Describe the curriculum for this degree program including the recommended course of study (appending course descriptions for all courses) and any special requirements such as clinical, field experience, community service, internships, practicum, a thesis, etc.

a. Coursework

Students will complete a minimum of 60-hours of coursework.

Major Required Courses:

ID 6403: Introduction to Historic Preservation	3
ID 8153: History of American Architecture and Landscape Architecture	3
ARC 6623: Historic Preservation Research Methods	3
ID 8163: Preservation Law	3
ID 8253: Adaptive Reuse of Existing Buildings	3
ID 8263: Interior Details, Furniture, Materials, and Finishes	3
GR 6303: Principles of GIS	3
ID 8000: Thesis Research/Thesis in Historic Preservation OR	
ID 8010: Practicum	6
ID 8273: Building Materials Conservation	3
ID 8274: Research Analysis Methods in Historic Preservation	3
ID 8353: Internship	3
ID 8453: Preservation Field Studies I	3
ID 8463: Historic Preservation Planning	3
ID 8483: Preservation Economics/Advocacy	3
ID 8553: Preservation Field Studies II	3
Additional approved electives	12
<b>Total Hours</b>	<b>60</b>

- At least 30 credit hours of GPA-graded coursework must be taken at the 8000-level or higher.
- A student that has taken any of the above courses for undergraduate credit may use the undergraduate course to satisfy the graduate requirement for that course, however; they must substitute another graduate-level course selected from the additional approved elective courses.

b. Master's Thesis or Practicum

Within the minimum of 60 hours of coursework, students are required to complete a written thesis or practicum which must be approved by their thesis committee or practicum advisor. The thesis committee will consist of at least three members, of which two will be graduate faculty at MSU. Additional members could be industry representative(s). The practicum is practice based and may include research, documentation, drawings, on-site- experience, analysis, synthesis, and its completion should add to the body of knowledge in historic preservation.

**Approved Electives (12 hours required):**

AN 6143: Ethnographic Methods: 3 hours

AN 6173: Environment and Society: 3 hours

AN 6523: Public Archaeology: 3 hours

AN 8513: Southeastern Archaeology: 3 hours

HI 8803: Graduate Colloquium: 3 hours

HI 8923: Historiography and Historical Method: 3 hours

HI 8933: Colloquium in Colonial Revolutionary America: 3 hours

HI 8943: Colloquium in the U.S. History from 1787-1877: 3 hours

HI 8953: Colloquium in the U.S. History from 1877-1945: 3 hours

HI 8963: Colloquium in the U.S. History from 1945-present: 3 hours

PPA 8103: Seminar in Public Administration: 3 hours

PPA 8133: City and County Management: 3 hours

PPA 8153: Seminar in Privatization: 3 hours

PPA 8733: Public Program Evaluation: 3 hours

PPA 8903: Public Policy: 3 hours

**Course Descriptions (Required and Elective Courses)**

ID 6403 Introduction to Historic Preservation: 3 hours.

Three hours lecture. An introduction to American historic preservation, its history, principles, and practice.

ID 8000 Thesis Research/Thesis in Historic Preservation: 1-13 hours. Hours and credits to be arranged.

ID 8010 Practicum: 6 hours.(Prerequisite ID 8473 and Approval of instructor) Six hours supervised field experience and documentation of research in Historic Preservation.

ID 8153 History of American Architecture and Landscape Architecture: 3 hours

Three hours lecture. Explore the architecture and landscape architecture of North America from the colonial period to the present.

ID 8163 Historic Preservation Law: 3 hours.

Three hours lecture. Examine federal, state, and local laws that protect the cultural heritage, built and natural environments, archeological resources, and the legal framework associated with preservation programs.

ID 8253 Adaptive Reuse of Existing Buildings: 3 hours.

Three hours lecture. Explore evaluating and applying appropriate treatments and financial incentives for reuse of existing historic buildings in today's environment. Emphasis on the design process.

ID 8263 Interior Details, Furniture, Materials, and Finishes: 3 hours.

Three hours lecture. Explore interior building details, furnishings, materials available, and interior finishes appropriate for buildings at time of construction.

ID 8273 Building Materials Conservation: 3 hours.

Three hours lecture. Thematic study of the basic field techniques and skill necessary to accurately interpret the interior fabric of history structures.

ID 8274 Research Analysis Methods Analysis in Historic Preservation: 3 hours.

Three hours lecture. Application of Research Analysis Methods specific to problems in Historic Preservation

ID 8353 Internship: 3 hours.

Three hours field work. Individual work experience in an approved setting under supervision of Mississippi State University faculty.

ID 8453 Preservation Field Studies: 3 hours.

Six hours laboratory. Fundamental to the practice of historic preservation is field work. Students will work collaboratively with communities on preservation projects using skills acquired in previous classes.

ID 8463 Historic Preservation Planning: 3 hours.

Three hours lecture. Introduction to theories of community planning from a Historic Preservation perspective.

ID 8483 Preservation Economics/Advocacy: 3 hours.

Three hours lecture. Examine economic techniques used in historic preservation projects and the funding and benefits of preserving historic buildings and districts and the real estate development process.

ID 8553 Preservation Field Studies II: 3 hours.

(Prerequisite ID 8453) Six hours laboratory. Continuation of ID 8453 with students continuing to collaborate with communities on preservation projects.

ARC 6623 (Prerequisite: Junior or Graduate standing or consent of the instructor). Three hours seminar.

Instruction in research methods to identify, record, and assess historic structures and sites.

GR 6303 Principles of GIS: 3 hours.

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

AN 6143 Ethnographic Methods: 3 hours.

(Prerequisites: AN 1103 or AN 1143 or consent of Instructor). Three hours lecture. An overview of methods and techniques for conducting ethnographic research.

AN 6173 Environment and Society: 3 hours.

(Prerequisite: AN 1103, SO 1003 or consent of instructor). Three hours lecture. A study of the interaction between human society and the environment including the social aspects of environmental problems.

AN 6523 Public Archaeology: 3 hours.

(Prerequisite: AN 1543 or consent of instructor). Three hours lecture. Survey of cultural resource management practices, Federal and State historic preservation laws, research proposal design, significance assessments, professional ethics, employee/client relationships, and public education.

AN 8513: Southeastern Archaeology: 3 hours.

Three hours lecture. Prehistory of Southeastern U.S. from entry of first people to European contact. Changes in technology, settlement, subsistence, demography, and environment examined using archaeological evidence.

HI 8803: Graduate Colloquium: 3 hours.

(Prerequisite: Graduate standing) Three hours lecture. Topical focus to be determined by the faculty member conducting the colloquium. (May be taken for credit more than once)

HI 8923: Historiography and Historical Method: 3 hours.

(Prerequisite: Graduate standing) Three hours lecture. The writings and interpretations of leading European and American historians; bibliographical aids in history, methods of research; preparation of bibliographies, practice in writing a research paper.

HI 8933: Colloquium in Colonial and Revolutionary America: 3 hours.

Three hours lecture. A review of the major themes in the history and historiography of North America for the colonial period through the independence of the United States.

HI 8943: Colloquium in the U.S. History from 1787-1877: 3 hours.

Three hours lecture. Review of the major themes in the history and historiography of the United States from the ratification of the Constitution to the end of Reconstruction.

HI 8953: Colloquium in the U.S. History from 1877-1945: 3 hours.

Three hours lecture. A review of the major themes in the history and historiography of the United States from then end of the Reconstruction to the end of the Second World War.

HI 8963: Colloquium in the U.S. History from 1945-present: 3 hours.

Three hours lecture. A review of the major themes in the history or historiography of the United States from the end of World War II until the present.

PPA 8103: Seminar in Public Administration: 3 hours.

(Prerequisite: consent of instructor) Three hours seminar. Detailed examination of the major elements of the field of public administration, with particular emphasis on emerging trends in the field.

PPA 8133: City and County Management: 3 hours.

Three hours seminar. Seminar focus on small town and county management in quasi-bureaucratic settings. Detailed consideration of problem solving capabilities as they relate to different forms of local government structure.

PPA 8153: Seminar in Privatization: 3 hours.

(Prerequisite: Consent of instructor). Three hours lecture. Examination of the theoretical and practical issues of public-private partnerships.

PPA 8733: Public Program Evaluation: 3 hours.

Three hour lecture. Techniques and analytical methods of assessing governmental program success. Special emphasis will be given to program designs, data collection, and quantitative applications.

PPA 8903: Public Policy: 3 hours.

Three hours lecture. Nature, determinants, and effects of public goods and services; policy formulation and implementation; seminar emphasizes contemporary issues such as strategic planning, leadership, and managerial control.

6. 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.

Currently there are two faculty members in the Interior Design Program who have experience in the practice and education of historic preservation. We have reached out to experts in the field to develop an Advisory Committee for the curriculum of the Master of Fine Arts in Historic Preservation. Many of these Advisory Committee members have agreed to become Lecturers in area specific courses. We will need funding for the Lecturer positions and for one additional full-time faculty position. The additional faculty member should possess a master's degree in historic preservation and have at least five to ten years of practice in the field. A table at the bottom of this section provides the anticipated funding necessary for the lecturer positions and the full-time faculty position. Courses listed in the table below are required courses for the new degree program.

Name	Rank	Courses Taught
<b>Interior Design Program</b>		
Carroll, Robin	Assistant Professor	
Chaney, Anna	Instructor	
Crumpton, Amy	Associate Professor	
Fulton, Jeff	Assistant Professor	ID 6403: Introduction to Historic Preservation ID 8153 History of American Architecture & Landscape Architecture ID 8353: Internship ID 8453: Preservation Field Studies I
Hughes, L. Ashley	Assistant Professor	
Miller, Beth R.	Professor	ID 8263: Interior Details, Furniture, Materials, and Finishes ID 8533 Preservation Field Studies II
Miller, Lyndsey	Associate Professor	
<b>School of Architecture</b>		
Hunter, Chris	Assistant Professor	ARC 6623: Historic Preservation Research Methods

<b>Lecturer Faculty (Specific Area Experts)</b>		
Cook, William	Special Counsel, Cultural Heritage Partners, PLLC, Washington, D.C., J.D.	ID 8163: Preservation Law
Edwards, John	Associate Research Professor	ID 8274: Research Analysis Methods in Historic Preservation
Rash, Lolly	Executive Director, Mississippi Heritage Trust, M.A.	ID 8483: Preservation Economics/Advocacy
Wynn, Claire Burns	Director of Programs, Mississippi Heritage Trust, M.H.P.	ID 8253: Adaptive Reuse of Existing Buildings ID 8463: Historic Preservation Planning ID 8273: Building Materials Conservation

<b>Tenure Track Faculty or Lecturers</b>	<b>Description</b>	<b>Number</b>	<b>Amount</b>	<b>Total</b>
Tenure Track Faculty	Master in Historic Preservation degree required and 5 to 10 years of experience in the field required	1	\$ 75,000	\$ 75,000
Graduate Coordinator	Administrative Stipend	1	\$ 20,000	\$ 20,000
Lecturers (Experts in the field)	4 (year one)	4	\$ 5,000	\$ 20,000
Lecturers (Experts in the field)	9 (year two-six per year)	9	\$ 5,000	\$ 45,000
Graduate Assistantships	2 per year (2 year degree)	4	\$20,000	\$ 80,000

7. 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?

The Mississippi State University (MSU) holdings are sufficient for the new proposed degree program. As of June 30, 2019, the library has over 2.6 million total volumes, including access to ebooks and ejournals. The MSU library has nearly 43,895 volumes specifically related to areas within historic preservation.

Total volumes in the Library as of June 30, 2019: 2,638,703

Access to 295,101 ebooks

Access to 133,881 ejournals

Number of databases:393

**Holdings of the MSU Libraries related to the Master of Fine Arts in Historic Preservation degree, based on the Library of congress call number (as of September 3, 2020)**

- Anthropology: 4,424 total volumes
- Architecture: 16,241 total volumes
- Building Materials: 5,938 total volumes
- General History: 10,875 total volumes
- Historic Preservation report 1 (Preservation, restoration, and conservation of antiquities): 151 total volumes
- Historic Preservation report 2 (Landscape architecture, conservation, and restoration): 1,041 total volumes
- Interior Design (Decoration): 1,572 total volumes
- Landscape Architecture: 825 total volumes
- Public Policy: 2,828 total volumes

**Library Services:**

- Mailing of hardcopy books
- Interlibrary Loan
- Scanning of needed articles and book chapters in the library's print collection (free of charge)
- Research assistant through chat, email, telephone, and WebEx
- MaxxSouth Digital Media Center

8. 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.

Faculty established rubrics will be employed to assess the student's effectiveness and competency in the history of the designed environment; the history and theory of preservation; documentation and recording techniques; specialized components in preservation; and field application and practical experience through internship and field studies. The culmination of the degree will conclude with a Master's Thesis or Practicum.



Exit survey assessments will be provided to all graduates in order to provide job placement and students' evaluation of the quality of instruction, academic resources, field study opportunities, internship experiences, and services provided by the Interior Design Program and MSU. The Graduate Degree Program Coordinator will track admissions and retention rates, and changes in the job market need and demand in the state and nationally.

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

Using enrollment numbers compiled by the National Council for Preservation Education (NCPE) for established universities with memberships in NCPE and graduate degrees in Historic Preservation, we took an average of all of the universities with master's degrees and used that figure as the basis for the year six enrollment numbers. We based the number for year one using enrollment numbers from some of the programs that have been in place for only a few years. With only 36 NCPE universities in the United States offering an MS or MA degree and only 6 NCPE universities offering a PhD degree, the MFA at Mississippi State University will be a terminal degree that will attract students as being the first university (NCPE) offering an MFA in Historic Preservation in the United States.

Based on market trends, the economic growth in historic preservation areas is rising. With tax credit incentives it should continue to offer employment opportunities for graduates with a graduate degree in historic preservation. According to the US Bureau of Labor 2019 *Occupational Outlook Handbook*, historic preservation jobs which require a master's degree, such as archivist, curators, conservators, and other areas are projected to grow 11% from 2019-2029, which is much faster than the average 3% for all other occupations. They also reported that state and federal opportunities for employment are rising, which is a positive indicator, as many of the employment opportunities for graduates possessing a graduate degree in historic preservation will be at the state and federal level. The earning potential of graduate with a Master of Fine Art in Historic Preservation based on the US Bureau of Labor 2019 *Occupational Outlook Handbook* the median pay is between \$49,850 and \$63, 670 per year. Therefore, we estimated that there will be a growth in student numbers for the first six years of the new degree program.

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: Chemistry

Contact Person: Steven Gwaltney

Mail Stop: 9573

E-mail: drg51@msstate.edu

Nature of Change: Modification

Date Initiated: 7/31/2020

Effective Date: 8/16/2021

Current Degree Program Name: B.S. in Chemistry

Major: Chemistry

Concentration: all

New Degree Program Name: B.S. in Chemistry

Major: Chemistry

Concentration: all

**Summary of Proposed Changes:**

The changes are to align the degree program with modified course names and numbers and to bring the pre-medical and pre-pharmacy concentrations in better alignment with current medical, dental, and pharmacy school requirements.

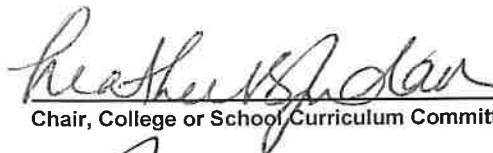
In this application are modifications to the base B.S. in Chemistry degree, along with all three of our concentrations.

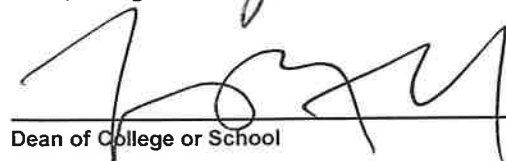
Approved:

Date:

Approved:

  
Department Head

  
Chair, College or School Curriculum Committee

  
Dean of College or School

\_\_\_\_\_  
Chair, University Committee on Courses and Curricula

\_\_\_\_\_  
Chair, Graduate Council(if applicable)

\_\_\_\_\_  
Chair, Deans Council

Date:

27 July 2020

7 October 2020

8 Oct. 2020

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**MISSISSIPPI STATE**  
UNIVERSITY™

**Department of Chemistry**

P.O. Box 9573  
310 President's Circle  
1124 Hand Lab  
Mississippi State, MS 39762

P. 662.325.7602  
F. 662.325.1618

[www.chemistry.msstate.edu](http://www.chemistry.msstate.edu)

July 29, 2020

Dr. Dana Pomykal Franz  
Chair, University Committee on Courses and Curricula  
Professor, Department of Curriculum, Instruction & Special Education

Dear Dr. Franz:

The faculty of the Department of Chemistry have reviewed and approved the following changes to the Chemistry undergraduate curriculum:

**Modify the B.A. in Chemistry, the B.S. in Chemistry, the B.S. in Chemistry with an A.C.S. concentration, the B.S. in Chemistry with a Pre-Medical concentration, and the B.S. in Chemistry with a Pre-Pharmacy concentration**

**Add a B.A. in Chemistry with a Pre-Health Professional concentration**

These changes are being made to the degrees and concentrations to bring them in line with the new and revised courses that Chemistry has proposed. In addition, the Pre-Medical and Pre-Pharmacy concentrations are being modified to better prepare students to attend Medical School or Pharmacy School, respectively.

We, the Department of Chemistry Undergraduate Affairs Committee request that the University Committee on Courses and Curricula (UCCC) approve these changes.

Sincerely,

Whitnee  
Nettles

Digitally signed by  
Whitnee Nettles  
Date: 2020.07.29  
11:58:18 -05'00'

Dr. Whitnee Nettles  
Undergraduate Coordinator

Steven  
Gwaltney

Digitally signed by  
Steven Gwaltney  
Date: 2020.07.29  
08:59:16 -05'00'

Dr. Steven Gwaltney  
Undergraduate Affairs Committee Member

Eric Van  
Dornshuld

Digitally signed by Eric  
Van Dornshuld  
Date: 2020.07.29  
13:12:04 -05'00'

Dr. Eric Van Dornshuld  
Undergraduate Affairs Committee Member

Charles Edwin  
Webster

Digitally signed by Charles Edwin  
Webster  
DN: cn=Charles Edwin Webster,  
o=MSState, ou=Chemistry,  
email=cew439@msstate.edu, c=US  
Date: 2020.07.29 13:52:05 -05'00'

Dr. C. Edwin Webster  
Undergraduate Affairs Committee Member

## 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: Chemistry Concentration:		Degree: Bachelor of Science Major: Chemistry Concentration:	
<p>Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.</p> <p>The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941, and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.</p> <p>The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.</p>		<p>Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.</p> <p>The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941 and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.</p> <p>The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.</p>	
"[Click here and type old concentration description]"		"[Click here and type new concentration description]"	
<b>CURRENT CURRICULUM OUTLINE</b>	<b>Required Hours</b>	<b>PROPOSED CURRICULUM OUTLINE</b>	<b>Required Hours</b>
English (Ex: EN 1103 English Comp I): EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II EN 1173 Accelerated Comp II	6	English (Ex: EN 1103 English Comp I): EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6
Fine Arts (General Education): See A&S requirements	3	Fine Arts (General Education): See A&S requirements	3

Natural Sciences: See Major Core - Consult advisor for specifics		Natural Sciences: See Major Core - Consult advisor for specifics	
Foreign Language: <i>2 semesters - one Foreign Language (see advisor)</i>	6	Foreign Language: <b>See A&amp;S requirements</b>	6
Math (General Education): MA 1713 Calculus I MA 1723 Calculus II	6	Math (General Education): MA 1713 Calculus I MA 1723 Calculus II	6
Humanities (General Education): <i>Literature - see A&amp;S requirements</i> <i>History - see A&amp;S requirements</i>	6	Humanities (General Education): <b>See A&amp;S requirements</b>	6
Social/Behavioral Sciences (Gen Ed): <i>Must be from 2 different areas and must be selected from University/ A&amp;S Core</i> <i>PSY 1013 General Psychology (required for pre-medicine)</i>	6	Social/Behavioral Sciences (Gen Ed): <b>See A&amp;S requirements</b>	6
Major Core Courses <i>Chemistry (42 hours)</i> CH 1141 Professional Chemistry: Paths ✓ CH 1234 Integrated Chemistry I <sup>1</sup> ✓ CH 1244 Integrated Chemistry II <sup>2</sup> ✓ CH 2141 Professional Chemistry: Tools ✓ <i>CH 2311 Analytical Chemistry I Laboratory</i> <i>CH 2313 Analytical Chemistry I</i> CH 3141 Professional Chemistry: Literature CH 4141 Professional Chemistry: Research <i>CH 4213 Advanced Inorganic Chemistry</i> CH 4351 Analytical Chemistry Lab II CH 4353 Analytical Chemistry II  <i>CH 4403 Biophysical Chemistry and CH 4411 Physical Chemistry Lab I or</i> <i>CH 4403 Biophysical Chemistry and CH 4421 Physical Chemistry Lab II or</i> <i>CH 4413 Thermodynamics and Kinetics and CH 4411 Physical Chemistry Lab I or</i> <i>CH 4423 Quantum Mechanics and Spectroscopy and CH 4423 Physical Chemistry Lab II</i>  CH 4554 Integrated Organic Chemistry I <sup>3</sup> CH 4564 Integrated Organic Chemistry II <sup>4</sup> CH 4711 Senior Seminar <i>6 Hours of CH or BCH Electives</i>	92	Major Core Courses <b>Chemistry (32 hours)</b> CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools CH 3141 Professional Chemistry: Literature <b>CH 3213 Inorganic Chemistry</b> <b>CH 3311 Analytical Chemistry I Laboratory</b> <b>CH 3313 Analytical Chemistry I</b> CH 4141 Professional Chemistry: Research CH 4351 Analytical Chemistry Lab II CH 4353 Analytical Chemistry II CH 4554 Integrated Organic Chemistry I <sup>3</sup> CH 4564 Integrated Organic Chemistry II <sup>4</sup> CH 4711 Senior Seminar	32

<i>Physics (9 hours)</i> <i>PH 1113 General Physics I or PH 2213</i> <i>Physics I</i> <i>PH 1123 General Physics II or PH 2223</i> <i>Physics II</i> <i>PH 1133 General Physics III or PH 2233</i> <i>Physics III</i>  <i>Number of credit hours needed to bring the</i> <i>total number of credit hours to 124.</i> <i>Consult advisor.</i>			
Concentration Courses		Concentration Courses <b>Chemistry (11 hours)</b> <b>CH 4403 Biophysical Chemistry</b> <b>or CH 4413 Thermodynamics and</b> <b>Kinetics</b> <b>or CH 4423 Quantum Mechanics and</b> <b>Spectroscopy</b>  <b>CH 4411 Physical Chemistry Lab I</b> <b>or CH 4421 Physical Chemistry Lab II</b>  <b>1 Hour of CH Electives</b> <b>6 Hours of CH or BCH Electives</b>  <b>Physics (9 hours)</b> <b>PH 1113 General Physics I or PH 2213</b> <b>Physics I</b> <b>PH 1123 General Physics II or PH 2223</b> <b>Physics II</b> <b>PH 1133 General Physics III or PH 2233</b> <b>Physics III</b>  <b>Number of credit hours needed to bring</b> <b>the total number of credit hours to 124.</b> <b>Consult advisor.</b>	59
Total Hours	124	Total Hours	124

<sup>1</sup>CH 1213 and CH 1211 can replace CH 1234

<sup>2</sup>CH 1223 and CH 1221 can replace CH 1244

<sup>3</sup>CH 4513 and CH 4511 can replace CH 4554

<sup>4</sup>CH 4523 and CH 4521 can replace CH 4564

## 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: Chemistry Concentration: A.C.S.		Degree: Bachelor of Science Major: Chemistry Concentration: A.C.S.	
<p>Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.</p> <p>The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941 and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.</p> <p>The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.</p>		<p>Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.</p> <p>The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941 and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.</p> <p>The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.</p>	
"[Click here and type old concentration description]"		"[Click here and type new concentration description]"	
<b>CURRENT CURRICULUM OUTLINE</b>	<b>Required Hours</b>	<b>PROPOSED CURRICULUM OUTLINE</b>	<b>Required Hours</b>
English (Ex: EN 1103 English Comp I): EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6	English (Ex: EN 1103 English Comp I): EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6
Fine Arts (General Education): See A&S requirements	3	Fine Arts (General Education): See A&S requirements	3



Natural Sciences: See Major Core - Consult advisor for specifics		Natural Sciences: See Major Core - Consult advisor for specifics	
Foreign Language: <i>2 semesters - one Foreign Language (see advisor)</i>	6	Foreign Language: <b>See A&amp;S requirements</b>	6
Math (General Education): MA 1713 Calculus I MA 1723 Calculus II	6	Math (General Education): MA 1713 Calculus I MA 1723 Calculus II	6
Humanities (General Education): <i>Literature - see A&amp;S requirements</i> <i>History - see A&amp;S requirements</i>	6	Humanities (General Education): <b>See A&amp;S requirements</b>	6
Social/Behavioral Sciences (Gen Ed): <i>Must be from 2 different areas and must be selected from University/ A&amp;S Core</i> <i>PSY 1013 General Psychology (required for pre-medicine)</i>	6	Social/Behavioral Sciences (Gen Ed): <b>See A&amp;S requirements</b>	6
Major Core Courses <i>Chemistry (39 hours)</i> CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools <i>CH 2311 Analytical Chemistry I Laboratory</i> <i>CH 2313 Analytical Chemistry I</i> CH 3141 Professional Chemistry: Literature CH 3213 Inorganic Chemistry CH 4141 Professional Chemistry: Research CH 4351 Analytical Chemistry Lab II CH 4353 Analytical Chemistry II <i>CH 4411 Physical Chemistry Lab I</i> <i>CH 4413 Thermodynamics and Kinetics</i> CH 4554 Integrated Organic Chemistry I <sup>3</sup> CH 4564 Integrated Organic Chemistry II <sup>4</sup> <i>CH 4603 Undergraduate Research</i> CH 4711 Senior Seminar  <i>Physics (9 hours)</i> <i>PH 2213 Physics I</i> <i>PH 2223 Physics II</i> <i>PH 2233 Physics III</i>  <i>Number of credit hours needed to bring the total number of credit hours to 124. Consult advisor.</i>	48	Major Core Courses <b>Chemistry (32 hours)</b> CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools CH 3141 Professional Chemistry: Literature. <b>CH 3213 Inorganic Chemistry</b> <b>CH 3311 Analytical Chemistry I Laboratory</b> <b>CH 3313 Analytical Chemistry I</b> CH 4141 Professional Chemistry: Research CH 4351 Analytical Chemistry Lab II CH 4353 Analytical Chemistry II CH 4554 Integrated Organic Chemistry I <sup>3</sup> CH 4564 Integrated Organic Chemistry II <sup>4</sup> CH 4711 Senior Seminar	32

Concentration Courses: <i>Chemistry (12 hours)</i> CH 4312 <i>Advanced Inorganic Lab</i> CH 4421 <i>Physical Chemistry Lab II</i> CH 4423 <i>Quantum Mechanics and Spectroscopy</i> CH 4213 <i>Advanced Inorganic Chemistry</i> BCH 4603 <i>General Biochemistry</i>  Math (3 hours) MA 2733 <i>Calculus III</i>	43	Concentration Courses: <b>Chemistry (23 hours)</b> <b>CH 3212 Inorganic Chemistry Lab</b> <b>CH 4411 Physical Chemistry Lab I</b>  <b>CH 4413 Thermodynamics and Kinetics or CH 4403 Biophysical Chemistry</b>  <b>CH 4421 Physical Chemistry Lab II</b> <b>CH 4423 Quantum Mechanics and Spectroscopy</b> <b>BCH 4603 General Biochemistry I</b>  <b>BCH 4613 General Biochemistry II or CH 4213 Advanced Inorganic Chemistry</b>  <b>CH 4800 Undergraduate Research in Chemistry (3 hours)</b> <b>4 Hours of CH Electives</b>  <b>Physics (9 hours)</b> <b>PH 2213 Physics I</b> <b>PH 2223 Physics II</b> <b>PH 2233 Physics III</b>  Math (3 hours) MA 2733 <i>Calculus III</i>  <b>Number of credit hours needed to bring the total number of credit hours to 124. Consult advisor.</b>	59
<b>Total Hours</b>	<b>124</b>	<b>Total Hours</b>	<b>124</b>

<sup>1</sup>CH 1213 and CH 1211 can replace CH 1234

<sup>2</sup>CH 1223 and CH 1221 can replace CH 1244

<sup>3</sup>CH 4513 and CH 4511 can replace CH 4554

<sup>4</sup>CH 4523 and CH 4521 can replace CH 4564

## 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: Chemistry Concentration: Pre-Pharmacy concentration  Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.  The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941, and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.  The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.	Degree: Bachelor of Science Major: Chemistry Concentration: Pre-Pharmacy concentration  Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.  The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941 and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.  The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.
The pre-pharmacy program is intended for students who wish to attend the School of Pharmacy at the University of Mississippi. Students may choose to obtain the B.S. with non-ACS certification degree or complete only the pre-pharmacy requirements, for which a degree is not awarded from MSU. The courses listed below will satisfy the requirements for the School of Pharmacy at the University of Mississippi. Most pharmacy schools have similar requirements. However, students who wish to attend other pharmacy schools should check the specific requirements for that school.	"[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 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II EN 1173 Accelerated Comp II	6	English (Ex: EN 1103 English Comp I): EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II EN 1173 Accelerated Comp II	6
Fine Arts (General Education): See A&S requirements	3	Fine Arts (General Education): See A&S requirements	3
Natural Sciences: See Major Core - Consult advisor for specifics		Natural Sciences: See Major Core - Consult advisor for specifics	
Foreign Language: <i>2 semesters - one Foreign Language (see advisor)</i>	6	Foreign Language: <b>See A&amp;S requirements</b>	6
Math (General Education): MA 1713 Calculus I MA 1723 Calculus II	6	Math (General Education): MA 1713 Calculus I MA 1723 Calculus II	6
Humanities (General Education): <i>Literature - see A&amp;S requirements</i> <i>History - see A&amp;S requirements</i>	6	Humanities (General Education): <b>See A&amp;S requirements</b>	6
Social/Behavioral Sciences (Gen Ed): <i>Must be from 2 different areas and must be selected from University/ A&amp;S Core</i> <i>PSY 1013 General Psychology (required for pre-medicine)</i>	6	Social/Behavioral Sciences (Gen Ed): <b>EC 2123 Principles of Microeconomics</b> <b>See A&amp;S requirements</b>	6
Major Core Courses Chemistry (42 hours) CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools <i>CH 2311 Analytical Chemistry I Laboratory</i> <i>CH 2313 Analytical Chemistry I</i> CH 3141 Professional Chemistry: Literature CH 4141 Professional Chemistry: Research <i>CH 4213 Advanced Inorganic Chemistry</i> CH 4351 Analytical Chemistry Lab II CH 4353 Analytical Chemistry II  <i>CH 4403 Biophysical Chemistry and CH 4411 Physical Chemistry Lab I or</i> <i>CH 4403 Biophysical Chemistry and CH 4421 Physical Chemistry Lab II or</i> <i>CH 4413 Thermodynamics and Kinetics and CH 4411 Physical Chemistry Lab I or</i> <i>CH 4423 Quantum Mechanics and Spectroscopy</i> <i>and CH 4423 Physical Chemistry Lab II</i>	52	Major Core Courses Chemistry (32 hours) CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools CH 3141 Professional Chemistry: Literature <b>CH 3213 Inorganic Chemistry</b> <b>CH 3311 Analytical Chemistry I Laboratory</b> <b>CH 3313 Analytical Chemistry I</b> CH 4141 Professional Chemistry: Research CH 4351 Analytical Chemistry Lab II CH 4353 Analytical Chemistry II CH 4554 Integrated Organic Chemistry I <sup>3</sup> CH 4564 Integrated Organic Chemistry II <sup>4</sup> CH 4711 Senior Seminar	32

<p>CH 4554 Integrated Organic Chemistry I<sup>3</sup>  CH 4564 Integrated Organic Chemistry II<sup>4</sup>  CH 4711 Senior Seminar</p> <p><i>Physics (9 hours)</i>  PH 1113 General Physics I or PH 2213  Physics I  PH 1123 General Physics II or PH 2223  Physics II  PH 1133 General Physics III or PH 2233  Physics III</p> <p><i>Number of credit hours needed to bring the  total number of credit hours to 124.  Consult advisor.</i></p>			
<p>Concentration Courses  EC 2123 Principles of Microeconomics  MA 2113 Introduction to Statistics  CO 1003 Fundamentals of Public Speaking  PHI 2123 Medical Ethics  BIO 1134 Biology I  BIO 1144 Biology II  BIO 3103 Genetics I  or BIO 4133 Human Genetics  BIO 3304 General Microbiology  BIO 4514 Animal Physiology  BIO 4413 Immunology  BIO 4405 Pathogenic Microbiology  BCH 4713 Molecular Biology</p>	42	<p>Concentration Courses  Chemistry (11 hours)  <b>CH 4403 Biophysical Chemistry</b>  or <b>CH 4413 Thermodynamics and  Kinetics</b>  or <b>CH 4423 Quantum Mechanics and  Spectroscopy</b></p> <p><b>CH 4411 Physical Chemistry Lab I</b>  or <b>CH 4421 Physical Chemistry Lab II</b></p> <p><b>1 Hour of CH Electives</b>  <b>BCH 4603 General Biochemistry I</b>  <b>BCH 4613 General Biochemistry II</b></p> <p><i>Physics (9 hours)</i>  PH 1113 General Physics I or PH 2213  Physics I  PH 1123 General Physics II or PH 2223  Physics II  PH 1133 General Physics III or PH 2233  Physics III</p> <p><i>Biology (23 hours)</i>  BIO 1134 Biology I  BIO 1144 Biology II  <b>BIO 2103 Cell Biology</b>  BIO 3304 General Microbiology  <b>BIO 3004 Human Anatomy</b>  <b>BIO 3014 Human Physiology</b></p> <p>MA 2113 Introduction to Statistics  CO 1003 Fundamentals of Public Speaking</p> <p><b>Recommended Electives:</b>  <b>PHI 3323 Medical Ethics</b>  <b>BIO 3103 Genetics I</b>  or <b>BIO 4133 Human Genetics</b>  <b>BIO 4413 Immunology</b></p>	59

		<b>BIO 4405 Pathogenic Microbiology</b>	
		<b>Number of credit hours needed to bring the total number of credit hours to 124. Consult advisor.</b>	
<b>Total Hours</b>	<b>124</b>	<b>Total Hours</b>	<b>124</b>

<sup>1</sup>CH 1213 and CH 1211 can replace CH 1234

<sup>2</sup>CH 1223 and CH 1221 can replace CH 1244

<sup>3</sup>CH 4513 and CH 4511 can replace CH 4554

<sup>4</sup>CH 4523 and CH 4521 can replace CH 4564

## 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: Chemistry Concentration: Pre-Medical		Degree: Bachelor of Science Major: Chemistry Concentration: Pre-Medical	
<p>Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.</p> <p>The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941, and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.</p> <p>The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.</p> <p>Student should check for prerequisites for all courses. See advisor.</p>		<p>Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.</p> <p>The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941 and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.</p> <p>The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.</p> <p>"[Click here and type new concentration description]"</p>	
<b>CURRENT CURRICULUM OUTLINE</b>	<b>Required Hours</b>	<b>PROPOSED CURRICULUM OUTLINE</b>	<b>Required Hours</b>
English (Ex: EN 1103 English Comp I): EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II EN 1173 Accelerated Comp II	6	English (Ex: EN 1103 English Comp I): EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6
Fine Arts (General Education): See A&S requirements	3	Fine Arts (General Education): See A&S requirements	3

Natural Sciences: See Major Core - Consult advisor for specifics		Natural Sciences: See Major Core - Consult advisor for specifics	
Foreign Language: <i>2 semesters - one Foreign Language (see advisor)</i>	6	Foreign Language: <b>See A&amp;S requirements</b>	6
Math (General Education): MA 1713 Calculus I MA 1723 Calculus II	6	Math (General Education): MA 1713 Calculus I MA 1723 Calculus II	6
Humanities (General Education): <i>Literature - see A&amp;S requirements</i> <i>History - see A&amp;S requirements</i>	6	Humanities (General Education): <b>See A&amp;S requirements</b>	6
Social/Behavioral Sciences (Gen Ed): <i>Must be from 2 different areas and must be selected from University/ A&amp;S Core</i> <i>PSY 1013 General Psychology (required for pre-medicine)</i>	6	Social/Behavioral Sciences (Gen Ed): <b>PSY 1013 General Psychology</b> <b>See A&amp;S requirements</b>	6
Major Core Courses Chemistry (32 hours) CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools <i>CH 2311 Analytical Chemistry I Laboratory</i> <i>CH 2313 Analytical Chemistry I</i> CH 3141 Professional Chemistry: Literature CH 4141 Professional Chemistry: Research <i>CH 4213 Advanced Inorganic Chemistry</i> CH 4351 Analytical Chemistry Lab II CH 4353 Analytical Chemistry II CH 4554 Integrated Organic Chemistry I <sup>3</sup> CH 4564 Integrated Organic Chemistry II <sup>4</sup> CH 4711 Senior Seminar  <i>Physics (9 hours)</i> <i>PH 1113 General Physics I or PH 2213 Physics I</i> <i>PH 1123 General Physics II or PH 2223 Physics II</i> <i>PH 1133 General Physics III or PH 2233 Physics III</i>  <i>Number of credit hours needed to bring the total number of credit hours to 124. Consult advisor.</i>	41	Major Core Courses Chemistry (32 hours) CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools CH 3141 Professional Chemistry: Literature <b>CH 3213 Inorganic Chemistry</b> <b>CH 3311 Analytical Chemistry I Laboratory</b> <b>CH 3313 Analytical Chemistry I</b> CH 4141 Professional Chemistry: Research CH 4351 Analytical Chemistry Lab II CH 4353 Analytical Chemistry II CH 4554 Integrated Organic Chemistry I <sup>3</sup> CH 4564 Integrated Organic Chemistry II <sup>4</sup> CH 4711 Senior Seminar	32



Concentration Courses <i>CH 4403 Biophysical Chemistry</i> <i>CH 4411 Physical Chemistry Laboratory I</i> BCH 4603 General Biochemistry I BCH 4613 General Biochemistry II  BIO 1134 Biology I BIO 1144 Biology II <i>BIO 2103 Cell Biology</i> <i>or BCH 4713 Molecular Biology</i> <i>BIO 3304 General Microbiology</i> <i>BIO 3103 Genetics I</i> <i>or BIO 4133 Human Genetics</i> <i>BIO 3504 Comparative Anatomy</i> <i>BIO 4413 Immunology</i> <i>BIO 4514 Animal Physiology</i>	39	Concentration Courses <b>Chemistry (11 hours)</b> <b>CH 4403 Biophysical Chemistry</b> <b>or CH 4413 Thermodynamics and Kinetics</b> <b>or CH 4423 Quantum and Spectroscopy</b>  <b>CH 4411 Physical Chemistry Lab I</b> <b>or CH 4421 Physical Chemistry Lab II</b>  <b>1 Hour of CH Electives</b> BCH 4603 General Biochemistry I BCH 4613 General Biochemistry II  <b>Physics (9 hours)</b> <b>PH 1113 General Physics I or PH 2213 Physics I</b> <b>PH 1123 General Physics II or PH 2223 Physics II</b> <b>PH 1133 General Physics III or PH 2233 Physics III</b>  <b>Biology (19 hours)</b> BIO 1134 Biology I BIO 1144 Biology II BIO 2103 Cell Biology BIO 3004 Human Anatomy BIO 3014 Human Physiology  <b>Recommended Electives:</b> BIO 3304 General Microbiology BIO 3103 Genetics I <i>or BIO 4133 Human Genetics</i> BIO 4413 Immunology MA 2113 Introduction to Statistics  <b>Number of credit hours needed to bring the total number of credit hours to 124. Consult advisor.</b>	59
Total Hours	124	Total Hours	124

<sup>1</sup>CH 1213 and CH 1211 can replace CH 1234

<sup>2</sup>CH 1223 and CH 1221 can replace CH 1244

<sup>3</sup>CH 4513 and CH 4511 can replace CH 4554

<sup>4</sup>CH 4523 and CH 4521 can replace CH 4564

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:** Chemistry

**Contact Person:** Steven Gwaltney

**Mail Stop:** 9573

**E-mail:** drg51@msstate.edu

**Nature of Change:** Modification

**Date Initiated:** 7/31/2020

**Effective Date:** 8/16/2021

**Current Degree Program Name:** B.A. in Chemistry

**Major:** Chemistry

**Concentration:**

**New Degree Program Name:**

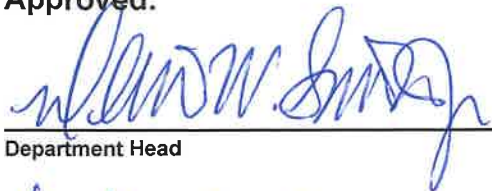
**Major:** Chemistry

**Concentration:**

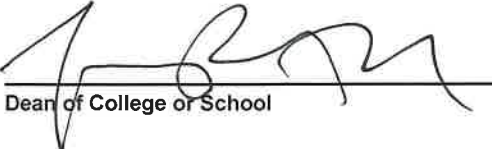
**Summary of Proposed Changes:**

The changes are to align the degree program with modified course names and numbers.

Approved:

  
\_\_\_\_\_  
Department Head

  
\_\_\_\_\_  
Chair, College or School Curriculum Committee

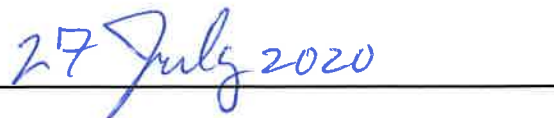
  
\_\_\_\_\_  
Dean of College or School

\_\_\_\_\_  
Chair, University Committee on Courses and Curricula

\_\_\_\_\_  
Chair, Graduate Council(if applicable)

\_\_\_\_\_  
Chair, Deans Council

Date:

  
\_\_\_\_\_  
27 July 2020

  
\_\_\_\_\_  
7 October 2020

  
\_\_\_\_\_  
8 October 2020

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## 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: Chemistry Concentration:		Degree: Bachelor of Arts Major: Chemistry Concentration:	
<p>Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.</p> <p>The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941, and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.</p> <p>The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.</p>		<p>Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and four concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.</p> <p>The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941 and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.</p> <p>The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.</p>	
"[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: EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II EN 1173 Accelerated Comp II	6	English: EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II <b>or</b> EN 1173 Accelerated Comp II	6
Fine Arts (General Education): See A&S requirements	3	Fine Arts (General Education): See A&S requirements	3

Natural Sciences: See Major Core - Consult advisor for specifics		Natural Sciences: See Major Core - Consult advisor for specifics	
Foreign Language: <i>3 semesters - one Foreign Language (see advisor)</i>	9	Foreign Language: <b>See A&amp;S requirements</b>	9
Math (General Education): <i>See A&amp;S requirements</i>	6	Math (General Education): <b>MA 1713 Calculus I MA 1723 Calculus II</b>	6
Humanities (General Education): <i>Literature - see General Education courses History - see General Education courses Philosophy - see A&amp;S Core Electives (Must be from 2 different areas) See A&amp;S Core</i>	18	Humanities (General Education): <b>See A&amp;S requirements</b>	18
Social/Behavioral Sciences (Gen Ed): See A&S requirements	18	Social/Behavioral Sciences (Gen Ed): See A&S requirements	18
Major Core Courses Chemistry (35 hours) CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools <i>CH 2311 Analytical Chemistry I Laboratory CH 2313 Analytical Chemistry I CH 3141 Professional Chemistry: Literature CH 4141 Professional Chemistry: Research CH 3213 Inorganic Chemistry or CH 4213 Advanced Inorganic Chemistry CH 4554 Integrated Organic Chemistry I<sup>3</sup> CH 4564 Integrated Organic Chemistry II<sup>4</sup> CH 4711 Senior Seminar 7 Hours of CH or BCH Electives</i>  Physics (9 hours) PH 1113 General Physics I or PH 2213 Physics I PH 1123 General Physics II or PH 2223 Physics II PH 1133 General Physics III or PH 2233 Physics III  <i>Number of credit hours needed to bring the total number of credit hours to 124. Consult advisor.</i>	64	Major Core Courses Chemistry (28 hours) CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools CH 3141 Professional Chemistry: Literature CH 3213 Inorganic Chemistry <b>CH 3311 Analytical Chemistry I Laboratory CH 3313 Analytical Chemistry I</b> CH 4141 Professional Chemistry: Research CH 4554 Integrated Organic Chemistry I <sup>3</sup> CH 4564 Integrated Organic Chemistry II <sup>4</sup> CH 4711 Senior Seminar  Physics (9 hours) PH 1113 General Physics I or PH 2213 Physics I PH 1123 General Physics II or PH 2223 Physics II PH 1133 General Physics III or PH 2233 Physics III	37
Concentration Courses		Concentration Courses <b>4 Hours of CH Electives 6 Hours of CH or BCH Electives</b>  <b>Number of credit hours needed to bring the total number of credit hours to 124. Consult advisor.</b>	27
Total Hours	124	Total Hours	124

<sup>1</sup>CH 1213 and CH 1211 can replace CH 1234

<sup>2</sup>CH 1223 and CH 1221 can replace CH 1244

<sup>3</sup>CH 4513 and CH 4511 can replace CH 4554

<sup>4</sup>CH 4523 and CH 4521 can replace CH 4564

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:** Chemistry

**Contact Person:** Steven Gwaltney

**Mail Stop:** 9573

**E-mail:** drg51@msstate.edu

**Nature of Change:** new concentration

**Date Initiated:** 7/31/2020

**Effective Date:** 8/16/2021

**New Degree Program Name:** B.A. in Chemistry

**Major:** Chemistry

**Concentration:** Pre-Health Professional

**Summary of Proposed Changes:** .

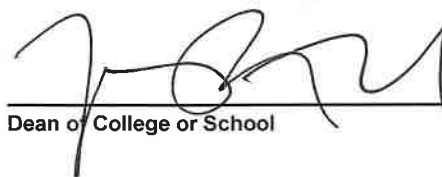
This is a new concentration being added to the existing B.A. in Chemistry. This new Pre-Health Professional concentration is designed medical school, dental school, or other professional school in a health-related field. The term "Pre-Health" Professional" is being used instead of "Pre-Medical" or similar in order to avoid confusion with the B.S. in Chemistry Pre-Medical concentration.

UCCC  
Change / Enroll / Add

Approved:

  
Department Head

  
Chair, College or School Curriculum Committee

  
Dean of College or School

\_\_\_\_\_  
Chair, University Committee on Courses and Curricula

\_\_\_\_\_  
Chair, Graduate Council(if applicable)

\_\_\_\_\_  
Chair, Deans Council

Date:

  
\_\_\_\_\_

  
\_\_\_\_\_

  
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## NEW DEGREE OUTLINE FORM

Use the chart below to indicate your new 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. Expand rows as needed.

<b>PROPOSED New Degree</b>	
Degree: Bachelor of Arts Major: Chemistry Concentration: Pre-Health Professional	
<p>Chemistry is concerned with the properties and compositions of substances and the transformations which they undergo. Because chemistry is a basic science to many careers, two undergraduate degree programs and three concentrations are offered to provide the needed flexibility for majors. These degrees are the B.S. and the B.A. degrees. A minimum of 124 hours is required for the B.S. degree and the B.A. degree. The department also offers the M.S. and the Ph.D. graduate degrees. Students in other majors may earn a minor in Chemistry by achieving at least a 2.00 average in a total of 22 hours of chemistry with 14 of the hours in upper-division courses and a minimum of 11 of the total hours completed at MSU.</p> <p>The American Chemical Society (ACS) has continually approved the department and its curriculum since 1941 and awards a certificate to students who complete the ACS program with their BS degree. The ACS program is primarily intended as preparatory for graduate study in chemistry leading to a career in basic research. Graduates could also go directly into research and development positions in industry. Students seeking information on the ACS certification should contact a major advisor.</p> <p>The B.A. degree program has a stronger liberal arts emphasis and could serve as a preparation for a secondary teaching career, chemical sales, or further study in a professional school.</p> <p>"[Click here and type new concentration description]"</p>	
<b>Proposed Curriculum Outline</b>	<b>Required Hours</b>
English (General Education): EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6
Fine Arts (General Education): See A&S requirements	3
Natural Sciences: See Major Core - Consult advisor for specifics	
Foreign Language: See A&S requirements	9
Math (General Education): MA 1713 Calculus I MA 1723 Calculus II	6
Humanities (General Education): 3 hours English Literature - see A&S Requirements 3 hours History - see A&S Requirements PH 1013 Intro to Ethics 9 more hours - see A&S Requirements	18

Social/Behavioral Sciences (Gen Ed): SO 1003 Intro to Sociology PSY 1013 Intro to Psychology 12 more hours - see A&S Requirements	18
Major Core Courses Chemistry (28 hours) CH 1141 Professional Chemistry: Paths CH 1234 Integrated Chemistry I <sup>1</sup> CH 1244 Integrated Chemistry II <sup>2</sup> CH 2141 Professional Chemistry: Tools CH 3141 Professional Chemistry: Literature CH 3213 Inorganic Chemistry CH 3311 Analytical Chemistry I Laboratory CH 3313 Analytical Chemistry I CH 4141 Professional Chemistry: Research CH 4554 Integrated Organic Chemistry I <sup>3</sup> CH 4564 Integrated Organic Chemistry II <sup>4</sup> CH 4711 Senior Seminar  Physics (9 hours) PH 1113 General Physics I or PH 2213 Physics I PH 1123 General Physics II or PH 2223 Physics II PH 1133 General Physics III or PH 2233 Physics III	37
Concentration Courses Chemistry (10 hours) BCH 4603 General Biochemistry I BCH 4613 General Biochemistry II 4 Hours of CH Electives  Biology (15 hours) BIO 1134 Biology I BIO 1144 Biology II BIO 2103 Cell Biology BIO 3004 Human Anatomy or BIO 3014 Human Physiology  Number of credit hours needed to bring the total number of credit hours to 124. Consult advisor.	27
Total Hours	124

<sup>1</sup>CH 1213 and CH 1211 can replace CH 1234

<sup>2</sup>CH 1223 and CH 1221 can replace CH 1244

<sup>3</sup>CH 4513 and CH 4511 can replace CH 4554

<sup>4</sup>CH 4523 and CH 4521 can replace CH 4564

APPROVAL FORM FOR  
**DEGREE PROGRAMS**  
MISSISSIPPI STATE UNIVERSITY

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

**College:** College of Business

**Department:** Adkerson School of Accountancy

**Contact Person:** Brad S. Trinkle

**Mail Stop:** 9584

**E-mail:** brad.trinkle@msstate.edu

**Nature of Change:** Addition of graduate minor in Accounting Data Analytics

**Date Initiated:** 10/30/2020

**Effective Date:** Spring 2021

**New Degree Program Name:** Graduate Minor in Accounting Data Analytics

**Minor:** Graduate Minor in Accounting Data Analytics

**Concentration:** n/a


**Summary of Proposed Changes:** Currently, the Adkerson School of Accountancy (ACC) has two graduate programs, a Master in Professional Accountancy and a Master of Taxation. Students in these programs would take two (2) courses from the ACC graduate program and one (1) course from the Business Information Systems (BIS) program. The plan is to offer this minor on Campuses 1 and 5.

**Approved:**

**Date:**

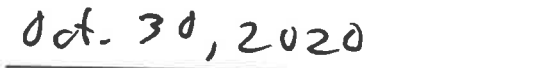
  
Department Head



  
Chair, College or School Curriculum Committee



  
Dean of College or School



\_\_\_\_\_  
Chair, University Committee on Courses and Curricula

\_\_\_\_\_  
Chair, Graduate Council(if applicable)

\_\_\_\_\_  
Chair, Deans Council

## NEW GRADUATE DEGREE OUTLINE FORM

Use the chart below to indicate your new degree outline. Please list required College and Major Required Courses and if appropriate Concentration Courses. Graduate programs that wish to specialize beyond the Major must have at least two concentrations. Add additional rows as needed for programs with more than two concentrations. Expand rows as needed

<b>PROPOSED New Degree</b>	
Degree: Graduate Minor in Accounting Data Analytics Major: Master in Professional Accountancy and a Master of Taxation. Concentration 1: n/a Concentration 2: n/a	
The graduate minor in Accounting Data Analytics is comprised of nine (9) graduate hours on Accounting and Business Data Analytics. The minor will provide students with a practical foundation for accounting data analytics with an emphasis on machine learning by teaching students basic tools and techniques that can scale to large computational systems and massive data sets.	
Proposed Curriculum Outline	Required Hours
Minor Required Courses:	
ACC 8043: Fraud Examination and Data Analysis	3
ACC 8143: Accounting Data Analytics	3
BIS 8413: Data Analytics	3
Total Hours	9

**Justification:** Data analytics has become ubiquitous in the practice of accounting. Furthermore, the Uniform CPA Examination is going through changes, called "CPA Evolution" that will contain much more on data analytics and an optional section on said subject. In order to better prepare our students for this change in Uniform CPA Exam requirements, we need to offer a minor that better prepares them for that material.

### Student Learning Outcomes:

The general learning outcomes associated with the new graduate minor will be:

1. Articulate the different types of machine learning algorithms and provide examples where each type might be applied within the accounting profession
2. Articulate the basic process of machine learning and describe how it can be applied to predictive analytics.
3. Articulate the basic concept of accounting data analytics and machine learning and describe how they can be applied to a specific predictive analytics.
4. Articulate the concepts of performing data analytics in the real-world.
5. Articulate how machine learning might make ethical mistakes.

**Support:** Please see the attached letters of support.

**Proposed 4-letter Abbreviation:** MADA

**Effective Date:** Spring 2021



**MISSISSIPPI STATE**  
UNIVERSITY™

**COLLEGE OF BUSINESS**

Richard C. Adkerson School of Accountancy

P.O. Box EF

Mississippi State, MS 39762-5661

P. 662.325.3710

F. 662.325.1646

[business.msstate.edu/accounting](http://business.msstate.edu/accounting)

October 29, 2020

To the University Courses & Curriculum Committee:

The members of the Online Steering Committee of the Adkerson School of Accountancy support the modification of the submitted courses to include Campus 5, the creation of ACC 8143: Accounting Data Analytics, and of the creation of the graduate minor in Accounting Data Analytics.

Shawn Mauldin, Director

Kelly Walker, Committee Chair

Lauren Milbach

Nathan Berglund

Brad Trinkle





**MISSISSIPPI STATE**  
UNIVERSITY™

**Management & Information Systems  
Department  
College of Business**

P.O. Box 9581  
Mississippi State, MS 39762  
P. 662.325.3928

To: University Committee on Courses and Curricula

From: Head, Management & Information Systems Department  
Starkville Campus

Date: October 28, 2020

This letter is to express the support of the Department of Management & Information Systems (MIS) for the proposed minor in Accounting Analytics to include BIS 8413.

Thank you for your time in considering this request.

*Laura E. Maier*



# MISSISSIPPI STATE UNIVERSITY

Department of Management and Information Systems  
College of Business

To: Shawn Mauldin, PhD, CPA, CMA, CFP  
Director & Professor of Accountancy  
Adkerson School of Accountancy  
College of Business  
Mississippi State University

From: Robert Otondo, PhD  
Professor of Information Systems  
Management & Information Systems Department  
College of Business  
Mississippi State University

Date: October 29, 2020

I support the School of Accountancy's request to include BIS 8413 (Data Analytics) in their minor in accounting data analytics. I have taught BIS 8413 for five years. I believe this course will fit well in this minor, and that we will be able to accommodate these increased enrollments in the course.

If you have any questions, or need any additional information, please contact me at [rotondo@business.msstate.edu](mailto:rotondo@business.msstate.edu).

Regards,

Robert Otondo



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: Computer Science & Eng.

Contact Person: Dr. T.J. Jankun-Kelly

Mail Stop: 9637 E-mail: [tjk@cse.msstate.edu](mailto:tjk@cse.msstate.edu)

Nature of Change: Add online

Date Initiated: 9/20 Effective Date: 8/21

Current Degree Program Name: Cyber Security & Operations (Distance)

Major: MS

Concentration: Cyber Operations, Cyber Defense

Summary of Proposed Changes:  
Add online programs

Approved:

Date:



Department Head

10/27/2020



Chair, College or School Curriculum Committee

10/27/2020



for Jason Keith

Dean of College or School

10/28/2020

Chair, University Committee on Courses and Curricula

Chair, Graduate Council(if applicable)

Chair, Deans Council



## 1. Catalog Description

The Master of Science in Cyber Security and Operations is designed for students who wish to help meet the challenges posed by increasing cyber-threats. Using a multidisciplinary approach, the program is designed to provide students with a focused education within a broad analytical framework for evaluating, understand, and solving cyber security problems. Either concentration will allow a thesis or non-thesis option. Starkville-campus and online programs are offered.

The Cyber Defense concentration will focus on those aspects of cyber security needed to prepare an enterprise level system to protect itself. Material will prepare the students for developing cyber security policies to comply with existing and future laws, conducting risk assessment in enterprise to determine compliance with requirements and implementing security solutions for the enterprise.

The Cyber Operations concentration will focus on those aspects of cyber security that are needed to operate in the cyber domain. Material will prepare the student for advanced operations in the cyber domain such as penetration testing, after action analysis, and malware analysis. This concentration is designed to satisfy the requirements for the Center of Academic Excellence in Cyber Operations program of the Department of Defense.

For a list of online tuition, instructional support, and other distance fees, please see the Controller's web site at <https://www.controller.msstate.edu/accountservices/tuition/>.

## 2. Graduate Degree Curriculum Outline

All courses are to completed remotely (all courses will be offered Campus 5).

PROPOSED Degree Description
Degree: Cyber Security and Operations Major: MS (Thesis & Non-Thesis) Concentrations: Cyber Defense, Cyber Operations
<p>The Master of Science in Cyber Security and Operations is designed for students who wish to help meet the challenges posed by increasing cyber-threats. Using a multidisciplinary approach, the program is designed to provide students with a focused education within a broad analytical framework for evaluating, understand, and solving cyber security problems. Either concentration will allow a thesis or non-thesis option. Starkville-campus and online programs are offered.</p> <p>The Cyber Defense concentration will focus on those aspects of cyber security needed to prepare an enterprise level system to protect itself. Material will prepare the students for developing cyber security policies to comply with existing and future laws, conducting risk assessment in enterprise to determine compliance with requirements and implementing security solutions for the enterprise.</p> <p>The Cyber Operations concentration will focus on those aspects of cyber security that are needed to operate in the cyber domain. Material will prepare the student for advanced operations in the cyber domain such as penetration testing, after action analysis, and malware analysis. This concentration is designed to satisfy the requirements for the Center of Academic Excellence in Cyber Operations program of the Department of Defense.</p> <p>For a list of online tuition, instructional support, and other distance fees, please see the Controller's web site at <a href="https://www.controller.msstate.edu/accountservices/tuition/">https://www.controller.msstate.edu/accountservices/tuition/</a>.</p>

<b>PROPOSED CURRICULUM OUTLINE</b>	<b>Required Hours</b>
<u>Major Required Courses</u> <ul style="list-style-type: none"> <li>• CSE 8011 Graduate Seminar</li> <li>• CSE 6243 Information and Computer Security</li> <li>• CSE 6173 Cryptography</li> <li>• CSE 6383 Network Security</li> </ul>	10
<u>Concentration: Cyber Defense</u> <ul style="list-style-type: none"> <li>• BIS 6113 Business Information Systems Security Management</li> <li>• CSE 6273 Introduction to Computer Forensics</li> <li>• Advanced Cyber Defense electives</li> </ul>	3 3 9
<u>Concentration: Cyber Operations</u> <ul style="list-style-type: none"> <li>• CSE 6363 Software Reverse Engineering</li> <li>• CSE 8753/ECE 8823 Wireless Networks</li> <li>• Advanced Cyber Operations electives</li> </ul>	3 3 9
<u>Thesis or Non-Thesis Option</u> <ul style="list-style-type: none"> <li>• Thesis Option: CSE 8000 Thesis Research/Thesis in Computer Science and Engineering: 6 hours</li> <li>• Non-Thesis Option: 6 hours of CSE or ECE electives</li> </ul>	6
<b>Total Hours</b>	<b>31</b>

### 3. Justification for Distance Learning Offering and Target Audience

Cyber operations and defense is of great interest to industry, government labs, and the military, all with students who cannot take 2 years off to complete a face-to-face program. An online program will allow these students to fulfill their needs and compete with similar online programs at Auburn and TAMU. While our courses can be taken by Campus 1 students, given that all have a Campus 1 equivalent, we do not anticipate a large “local” population.

In the short term, the program will be delivered through a mix of synchronous courses recorded via WebEx or at our extant online classrooms in BCoE. These will be embedded with our existing face-to-face courses similar to how online courses have been delivered throughout BCoE in the past. In the longer term, we anticipate hiring additional distance-only lecturers with the fees from the program who will develop asynchronous versions of said face-to-face courses and thus we will transition to a more asynchronous model. Each class will have a variety of online activities such as video with quizzes, synchronous activities, office hours, and others which will satisfy contact hour requirements.

### 4. Learning Outcomes

Our learning outcomes are consistent with our other MS programs:

- **Advanced knowledge in Cyber Defense & Operations** Students will demonstrate mastery of a relevant body of knowledge at an advanced level in cyber security. Measured via technical competency at the Comprehensive Exam and our Core classes.
- **Cyber security research** Students will demonstrate the ability to perform advanced cyber security work such as research, and/or to communicate technical material effectively. Measured via publication or submission counts if performed and presentation quality in courses and Comprehensive Exams.
- **Readiness for professional careers** Students will demonstrate readiness for professional careers in the field of

cyber security. Measured via job acceptance and professional experience activities (e.g., projects, co-ops, etc.).

#### **5. Proposed 4-Letter Abbreviation**

The MSU registrar has adopted CYSO as the abbreviation of Cyber Operation degrees.

#### **6. Effective Date**

Fall 2021

**Appendix 10: Report of Intent to Offer an Existing Degree Program by Distance Learning  
(Submit Appendix 10 in both PDF and Word Document Formats)**

<b>Institution:</b>			
<b>Date of Initial Program Approval:</b> 10/21/2016 (Campus 1)		<b>Date of Implementation:</b> 8/17 (Campus 1), 8/2021 (Campus 5)	
<b>Cost to Offer by Distance Learning:</b> \$14,000 approximate			
<b>Program Title as It Appears on Academic Program Inventory, Diploma, and Transcript:</b> Cyber Security and Operations			<b>Six-Digit CIP Code(s) &amp; Four-Digit Sequence Code(s):</b> 11.1003 CYSO
CIP & Sequence codes: <a href="#">IHL Active Program Inventory</a>			
<b>Degree(s) to be Awarded:</b> Master of Science		<b>Credit Hour Requirements:</b> 31	
<b>Can this program be completed entirely online?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Will this program require separate admission from those offered on-campus?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Responsible Academic Unit(s):</b> Computer Science & Engineering		<b>Institutional Contact:</b> Dr. T.J. Jankun-Kelly <b>Phone:</b> x7504 <b>Email:</b> tjkc@cse.msstate.edu	
<b>Number of Students Expected to Enroll in First Six Years:</b>		<b>Number of Graduates Expected in First Six Years:</b>	
<b>Year One</b>	5	<b>Year One</b>	0
<b>Year Two</b>	8	<b>Year Two</b>	0
<b>Year Three</b>	10	<b>Year Three</b>	4
<b>Year Four</b>	15	<b>Year Four</b>	6
<b>Year Five</b>	20	<b>Year Five</b>	8
<b>Year Six</b>	20	<b>Year Six</b>	12
<b>Total</b>	78	<b>Total</b>	30
<b>Program Summary:</b> The Catalog would mirror the Campus 1 catalog. Due to interest from industry, government labs, and the military, these would be self-funded students with a longer time-to-graduate than face-2-face students. We anticipate hiring some lecturers to cover additional courses as interest grows, with funds from distance fees and distance tuition.			
<hr/> <b>Chief Academic Officer Signature</b>		<hr/> <b>Date</b>	
<hr/> <b>Institutional Executive Officer Signature</b>		<hr/> <b>Date</b>	



MISSISSIPPI STATE UNIVERSITY™  
JAMES WORTH  
**BAGLEY**  
COLLEGE OF ENGINEERING

DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING

Andy D. Perkins, Ph.D.  
Professor and Associate Department Head  
perkins@cse.msstate.edu

September 18, 2020

University Committee on Courses and Curricula  
PO Box 5268  
Mississippi State, MS 39762

Dr. Franz:

During a faculty meeting on September 18, 2020, the Computer Science and Engineering faculty voted to request approval to offer the MS in Cyber Security and Operations, and the PhD in Computer Science by distance. Please feel free to contact me if there are any questions or concerns.

Sincerely,

---

Andy D. Perkins, Ph.D.  
*CSE Courses and Curricula Chair*  
*Professor and Associate Department Head*

---

Joseph Crumpton, Ph.D.  
*CSE Courses and Curricula Member*  
*Assistant Clinical Professor*

---

Christopher McDaniel, Ph.D.  
*CSE Courses and Curricula Member*  
*Instructor*

---

Kortni Neal  
*CSE Courses and Curricula Member*  
*Instructor*



MISSISSIPPI STATE UNIVERSITY™  
JAMES WORTH  
**BAGLEY**  
COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL  
& COMPUTER ENGINEERING

Samee U. Khan  
Department Head and James W. Bagley Chair Professor  
skhan@ece.msstate.edu


**To Whom It May Concern:**

I am writing this memo to express the strong support of the Department of Electrical and Computer Engineering for the proposed distance MS degree in Cyber Security and Operations.

The Department of Electrical and Computer Engineering can accommodate students pursuing a CYSO distance degree in its class ECE 8832 (Wireless Networks).

Please feel free to contact me should you have any questions or concerns.

Sincerely,



Samee U. Khan



**MISSISSIPPI STATE**  
UNIVERSITY™

**Management & Information Systems  
Department  
College of Business**

P.O. Box 9581  
Mississippi State, MS 39762  
P. 662.325.3928

To: University Committee on Courses and Curricula

From: BIS Faculty, Management & Information Systems Department  
Starkville Campus

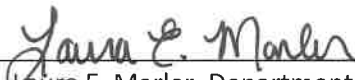
Date: September 24, 2020

This letter is to express the support of the Department of Management & Information Systems (MIS) for the proposed distance MS degree in Cyber Security and Operations (CYSO).

The MIS Department can accommodate students pursuing a CYSO distance degree in its online class for BIS 6113 (Security Management), BIS 8213 (Secure Systems Analysis and Design), and BIS 8113 (Management Information Technology & Systems).

The Information Systems faculty and MIS Department Head have reviewed and voted to approve these changes. Please see attached emails.

Thank you for your time in considering this request.

	Support	Do Not Support
 Dr. Laura E. Marler, Department Head		
_____ Dr. Martin Kang	<u>see attached e-mail</u>	
_____ Dr. Kent Marett	<u>see attached e-mail</u>	
_____ Dr. Robert Otondo	<u>see attached e-mail</u>	
_____ Dr. David Sikolia	<u>see attached e-mail</u>	
_____ Dr. Gary Templeton	<u>see attached e-mail</u>	
_____ Dr. Merrill Warkentin	<u>see attached e-mail</u>	

## Marler, Laura

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**From:** Warkentin, Merrill  
**Sent:** Thursday, September 24, 2020 9:10 AM  
**To:** Sikolia, David; Otondo, Bob; Marler, Laura; Kang, Dae Youp; Marett, Kent; Templeton, Gary  
**Subject:** RE: Please respond!

Yes, full support. Thank you, Laura

**From:** Sikolia, David <dsikolia@business.msstate.edu>  
**Sent:** Thursday, September 24, 2020 9:09 AM  
**To:** Otondo, Bob <rotondo@business.msstate.edu>; Marler, Laura <lmarler@business.msstate.edu>; Kang, Dae Youp <mkang@business.msstate.edu>; Marett, Kent <KMarett@business.msstate.edu>; Templeton, Gary <GTempleton@business.msstate.edu>; Warkentin, Merrill <m.warkentin@msstate.edu>  
**Subject:** Re: Please respond!

Me too.

Thank you,  
David



---

**From:** "Otondo, Bob" <rotondo@business.msstate.edu>  
**Date:** Thursday, September 24, 2020 at 9:08 AM  
**To:** "Marler, Laura" <lmarler@business.msstate.edu>, "Kang, Dae Youp" <mkang@business.msstate.edu>, "Marett, Kent" <KMarett@business.msstate.edu>, "Sikolia, David" <dsikolia@business.msstate.edu>, "Templeton, Gary" <GTempleton@business.msstate.edu>, "Warkentin, Merrill" <m.warkentin@msstate.edu>  
**Subject:** RE: Please respond!

Hi, Laura,



I support these changes.

Thanks for handling this,  
-Bob

**From:** Marler, Laura <[lmabler@business.msstate.edu](mailto:lmabler@business.msstate.edu)>

**Sent:** Thursday, September 24, 2020 9:02 AM

**To:** Kang, Dae Youp <[mkang@business.msstate.edu](mailto:mkang@business.msstate.edu)>; Marett, Kent <[KMarett@business.msstate.edu](mailto:KMarett@business.msstate.edu)>; Otondo, Bob <[rotondo@business.msstate.edu](mailto:rotondo@business.msstate.edu)>; Sikolia, David <[dsikolia@business.msstate.edu](mailto:dsikolia@business.msstate.edu)>; Templeton, Gary <[GTempleton@business.msstate.edu](mailto:GTempleton@business.msstate.edu)>; Warkentin, Merrill <[m.warkentin@msstate.edu](mailto:m.warkentin@msstate.edu)>

**Subject:** Please respond!

Dear All,

Shahram and I crafted a letter of support (see below) that will work for their MS degree in Cyber Security and Operations. We had a very nice chat yesterday, and I am very pleased we are able to support their program. Please indicate whether or not you support these changes via e-mail (which I think you all do, just want to make it official), and I will attach those as documentation for support.

Thanks!

Laura

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**To:** University Committee on Courses and Curricula

**From:** BIS Faculty, Management & Information Systems Department  
Starkville Campus

**Date:** September 24, 2020

This letter is to express the support of the Department of Management & Information Systems (MIS) for the proposed distance MS degree in Cyber Security and Operations (CYSO). The MIS Department can accommodate students pursuing a CYSO distance degree in its online class for BIS 6113 (Security Management), BIS 8213 (Secure Systems Analysis and Design), and BIS 8113 (Management Information Technology & Systems).

The Information Systems faculty and MIS Department Head have reviewed and agree to approve these changes. Please see attached emails.

Thank you for your time in considering this request.

**Dr. Laura E. Marler**

Head, Department of Management & Information Systems  
Jim and Pat Coggin Endowed Professor of Management  
Family Business Education Initiative Director  
McCool Hall, 302-I  
Mississippi State, MS 39762

## Marler, Laura

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**From:** Templeton, Gary  
**Sent:** Thursday, September 24, 2020 11:06 AM  
**To:** Kang, Dae Youp; Marler, Laura  
**Cc:** Marett, Kent; Sikolia, David; Otondo, Bob; Warkentin, Merrill  
**Subject:** Re: Please respond!

I support the letter!

Gary

---

**From:** Kang, Dae Youp <mkang@business.msstate.edu>  
**Sent:** Thursday, September 24, 2020 10:14 AM  
**To:** Marler, Laura <lmarler@business.msstate.edu>  
**Cc:** Marett, Kent <KMarett@business.msstate.edu>; Sikolia, David <dsikolia@business.msstate.edu>; Otondo, Bob <rotondo@business.msstate.edu>; Templeton, Gary <GTempleton@business.msstate.edu>; Warkentin, Merrill <m.warkentin@msstate.edu>  
**Subject:** Re: Please respond!

I support the letter too. Thank you.

Sent from my iPhone

On Sep 24, 2020, at 10:06 AM, Marler, Laura <lmarler@business.msstate.edu> wrote:

Thanks so much, Kent!

### Dr. Laura E. Marler

Head, Department of Management & Information Systems  
Jim and Pat Coggin Endowed Professor of Management  
Family Business Education Initiative Director  
McCool Hall, 302-I  
Mississippi State, MS 39762  
<image004.png>

**From:** Marett, Kent <KMarett@business.msstate.edu>  
**Sent:** Thursday, September 24, 2020 10:06 AM  
**To:** Marler, Laura <lmarler@business.msstate.edu>; Sikolia, David <dsikolia@business.msstate.edu>; Otondo, Bob <rotondo@business.msstate.edu>; Kang, Dae Youp <mkang@business.msstate.edu>; Templeton, Gary <GTempleton@business.msstate.edu>; Warkentin, Merrill <m.warkentin@msstate.edu>  
**Subject:** Re: Please respond!

I support the letter too.  
- Kent

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: Computer Science & Eng.

Contact Person: Dr. T.J. Jankun-Kelly

Mail Stop: 9637 E-mail: [tjk@cse.msstate.edu](mailto:tjk@cse.msstate.edu)

Nature of Change: Add online

Date Initiated: 9/20 Effective Date: 8/21

Current Degree Program Name: Computer Science (Distance)

Major: PhD

Concentration: None

Summary of Proposed Changes:  
Add online programs

Approved:

Date:



Department Head

10/27/2020



Chair, College or School Curriculum Committee

10/27/2020



for Jason Keith

Dean of College or School

10/28/2020

Chair, University Committee on Courses and Curricula

Chair, Graduate Council(if applicable)

Chair, Deans Council

## 1. Catalog Description

Graduate study is offered in the Department of Computer Science and Engineering leading to the degrees of Master of Science in Computer Science, Master of Science in Cyber Security and Operations, and Doctor of Philosophy in Computer Science.

### Masters and PhD in Computer Science

The program of study of a Master of Science in Computer Science degree includes advanced courses in computer science that are selected according to the goals of the student. Masters students may choose between a professional degree General concentration or a more specialized Research concentration. The program of study of a Doctor of Philosophy (Ph.D.) in Computer Science degree includes advanced courses in computer science and significant scholarly research in computer science, presented in a dissertation. Starkville-campus and online programs are offered.

The department's core research areas include the following.

- Artificial intelligence
- Computational science
- Graphics
- Human centered computing
- Software engineering
- Systems & Security

These core competencies support research applications in areas such as bioinformatics, visualization, computer security and forensics, human-computer interactions, robotics, and high performance computing. Faculty, research assistants, thesis students, and dissertation students participate in a wide variety of research projects. Many research projects are multi-disciplinary or multi-specialty in nature.

An entering PhD student with an MS degree should have a 3.50/4.00 grade point average on MS work, while a PhD student entering with only a BS degree (applicable only to Starkville students) is expected to have a 3.50/4.00 on overall undergraduate work. A student with a lower GPA may still be eligible for admission based on outstanding qualifications in other areas. A student must complete the GRE with a competitive score before admission; graduates of Mississippi State University with a 3.5 GPA do not have to take the GRE. International students require a suitable demonstration of English proficiency. Candidates for the PhD degree must have completed all prerequisite courses or their equivalent. Finally, a student must possess those qualifications and research interests that indicate to the Computer Science and Engineering Graduate Studies Committee that the applicant will be successful in the doctoral program. Online students doing research must identify a research area at application time. For additional details, consult the CS Department's Graduate Handbook.

For a list of online tuition, instructional support, and other distance fees, please see the Controller's web site at <https://www.controller.msstate.edu/accountservices/tuition/>.

## 2. Graduate Degree Curriculum Outline

All courses are to completed remotely (all courses will be offered Campus 5).

## PROPOSED Degree Description

Degree: Computer Science

Major: PhD

Concentrations: None

Graduate study is offered in the Department of Computer Science and Engineering leading to the degrees of Master of Science in Computer Science, Master of Science in Cyber Security and Operations, and Doctor of Philosophy in Computer Science.

### Masters and PhD in Computer Science

The program of study of a Master of Science in Computer Science degree includes advanced courses in computer science that are selected according to the goals of the student. Masters students may choose between a professional degree General concentration or a more specialized Research concentration. The program of study of a Doctor of Philosophy (Ph.D.) in Computer Science degree includes advanced courses in computer science and significant scholarly research in computer science, presented in a dissertation. Starkville-campus and online programs are offered.

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For a list of online tuition, instructional support, and other distance fees, please see the Controller's web site at <https://www.controller.msstate.edu/accountservices/tuition/>.

<b>PROPOSED CURRICULUM OUTLINE</b>	<b>Required Hours</b>
<u>CS Core</u>  The CS Core ensures students are prepared for graduate study and have a background in computer theory suitable for a graduate degree in computer science. <ul style="list-style-type: none"> <li>• CSE 8011: Seminar</li> <li>• One of CSE 8833: Algorithms, CSE 8813: Theory of Computation, or CSE 8843: Complexity of Sequential and Parallel Algorithms.</li> </ul> Students with a previous MS do not have to complete 8011 if completed during MS work and require the completion of only 3 hours of Theory.  Classes designated as theory in advance by the faculty can be used to substitute for the theory requirement on a case-by-case basis.	3–4
<u>Depth Requirement</u>  Online students must complete 6 hours in a research area approved by their committee.	6
<u>Breadth Requirement</u>  Online PhD Students must complete an additional 3 hours from any area.	3
<u>Additional Coursework</u>  No additional coursework hours are required for previous online students, though a student’s committee may request additional preparation.  Of the required hours, 6 hours must be at the full graduate level; in general, half of the credit hours must be at the full graduate level. These totals exclude dissertation hours. Coursework outside CSE may count only at a student’s committee’s discretion. The majority of non-dissertation hours must come from CSE.	0
<u>Dissertation Hours</u>  <ul style="list-style-type: none"> <li>• CSE 9000 Dissertation Research/ Dissertation in Computer Science and Engineering</li> </ul>	20
<b>Total Hours</b>	<b>32–33</b>

### 3. Justification for Distance Learning Offering and Target Audience

Since the start of our online MS program, we have received significant interest in our PhD program. This includes students at ERDC in Vicksburg (who we have a long standing relationship), but other students in industry or at other government and military labs. Thus, we felt it was an appropriate time to develop an online PhD program to serve these needs. While our courses can be taken by Campus 1 students, given that all have a Campus 1 equivalent, we do not anticipate a large “local” population.

Unlike our on-campus program, we will only admit students with a previous MS (generally in CS degrees, but other degrees are acceptable with appropriate background in CS). This is to help manage the size of the program and demand on faculty. We are also asking students to identify research areas they wish to work in so we can plan coursework and identify potential dissertation directors.

The program will be delivered through a mix of synchronous courses recorded via WebEx or at our extant online classrooms in BCoE and additional asynchronous courses developed by faculty. The synchronous courses will be embedded with our existing face-to-face courses similar to how online courses have been delivered throughout BCoE in the past. Each class will have a variety of online activities such as video with quizzes, synchronous activities, office hours, and others which will satisfy contact hour requirements. Research meetings, exams, and similar will be handled via online meeting systems such as Teams and WebEx.

#### **4. Learning Outcomes**

The learning outcomes are the same for our current Campus 1 PhD program and will not be changed:

- **Mastery of a computer-science knowledge** Students will demonstrate mastery of a computer-science body of knowledge at appropriate depth for support of research in the student's area of interest within computer science. Measured via technical competency at the Qualifying Exam, Preliminary Exam, and our Core classes.
- **Conduct and communicate advanced research** Students will demonstrate ability to conduct and communicate advanced level research that contributes to a field in computer science. Measured via publication or submission counts, presentation quality, and Dissertation Defenses.
- **Readiness for professional careers** Students will demonstrate readiness for professional careers in the field of computing. Measured via job acceptance and classroom teaching experience.

#### **5. Proposed 4-Letter Abbreviation**

The MSU registrar has adopted CS as the abbreviation of Computer Science degrees.

#### **6. Effective Date**

Fall 2021

**Appendix 10: Report of Intent to Offer an Existing Degree Program by Distance Learning**  
**(Submit Appendix 10 in both PDF and Word Document Formats)**

<b>Institution:</b>			
<b>Date of Initial Program Approval:</b> September 2020 (Campus 5)		<b>Date of Implementation:</b> August 2021 (Campus 5)	
		<b>Cost to Offer by Distance Learning:</b> Minimal	
<b>Program Title as It Appears on Academic Program Inventory, Diploma, and Transcript:</b> Computer Science			<b>Six-Digit CIP Code(s) &amp; Four-Digit Sequence Code(s):</b> 11.0101 CS
CIP & Sequence codes: <a href="#">IHL Active Program Inventory</a>			
<b>Degree(s) to be Awarded:</b> PhD		<b>Credit Hour Requirements:</b> 32	
<b>Can this program be completed entirely online?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Will this program require separate admission from those offered on-campus?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Responsible Academic Unit(s):</b> Computer Science & Engineering		<b>Institutional Contact:</b> Dr. T.J. Jankun-Kelly <b>Phone:</b> x7504 <b>Email:</b> tjkc@cse.msstate.edu	
<b>Number of Students Expected to Enroll in First Six Years:</b>		<b>Number of Graduates Expected in First Six Years:</b>	
Year One	1	Year One	0
Year Two	2	Year Two	0
Year Three	4	Year Three	1
Year Four	5	Year Four	1
Year Five	6	Year Five	2
Year Six	6	Year Six	3
<b>Total</b>	24	<b>Total</b>	7
<b>Program Summary:</b> We propose to offer the CS PhD program as online. We will adopt the existing Catalog for MS Admit students for online students: Students must have a previous MS degree and complete 12 classwork and 20 dissertation hours: 3–4 hours in the CS Core (Seminar & Theory), 6 hours in the Primary Specialization, 3 free course hours. Due to COVID and our extant online MS, many of our course are already available distance or can be converted. We expect students to be self-funded from industry, gov't labs, and similar.			
<hr/> <b>Chief Academic Officer Signature</b>		<hr/> <b>Date</b>	
<hr/> <b>Institutional Executive Officer Signature</b>		<hr/> <b>Date</b>	





MISSISSIPPI STATE UNIVERSITY™  
JAMES WORTH  
**BAGLEY**  
COLLEGE OF ENGINEERING

DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING

Andy D. Perkins, Ph.D.  
Professor and Associate Department Head  
perkins@cse.msstate.edu

September 18, 2020

University Committee on Courses and Curricula  
PO Box 5268  
Mississippi State, MS 39762

Dr. Franz:

During a faculty meeting on September 18, 2020, the Computer Science and Engineering faculty voted to request approval to offer the MS in Cyber Security and Operations, and the PhD in Computer Science by distance. Please feel free to contact me if there are any questions or concerns.

Sincerely,

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Andy D. Perkins, Ph.D.  
*CSE Courses and Curricula Chair*  
*Professor and Associate Department Head*

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Joseph Crumpton, Ph.D.  
*CSE Courses and Curricula Member*  
*Assistant Clinical Professor*

---

Christopher McDaniel, Ph.D.  
*CSE Courses and Curricula Member*  
*Instructor*

---

Kortni Neal  
*CSE Courses and Curricula Member*  
*Instructor*