



MISSISSIPPI STATE
UNIVERSITY[™]

*UNIVERSITY COMMITTEE ON
COURSES AND CURRICULA*

A MEMORANDUM

DATE: January 5, 2022
TO: UCCC Members
FROM: Dr. Andy Perkins, Chair
SUBJECT: UCCC Meeting on Friday, January 14, 2022 at 1:30 p.m.

The agenda and proposals for the meeting on **Friday, January 14, 2022 at 1:30 p.m. in the Trotter Room (Room 2200) of the Center for Advanced Vehicular Systems in the Research Park** are enclosed. The minutes will be forwarded by a separate email. Please contact the UCCC Office if you are unable to attend the meeting.

Thank you.

Enclosures: Course/Curriculum Proposals

AGENDA
UNIVERSITY COMMITTEE ON COURSES AND CURRICULA
January 14, 2022

- 1. Welcome**
- 2. Approval of minutes**
- 3. Proposed modification of By-Laws**
- 4. Election of UCCC Chair**
- 5. Course proposals by college/school**

AGRICULTURE AND LIFE SCIENCES

Modification +Online/Distance	EPP 6154 (split level with EPP 4154)	General Entomology
Modification +Online/Distance	EPP 8343	Advances in Insect Anatomy-Structure and Function
Modification +Online/Distance	EPP 8353	Advances in Insect Physiology and Biochemistry
Addition +Online/Distance	EPP 8364	Non-Thesis Master's Project in Entomology
Addition +Online/Distance	EPP 8881	Entomology and Plant Pathology Colloquium
Modification	HDFS 4701	Internship Preparation
Addition +Online/Distance	HDFS 4802/6802	Grief and Bereavement: Support Systems and Practices for Children and Families

ARTS AND SCIENCES

Addition	CO 2512	Introduction to Theatrical Design
Modification +Online/Distance	CO 3313	News Writing for the Electronic Media
Addition	CO 3532	Theatre for Change
Addition	CO 3552	Professional Practice in the Theatre
Addition	CO 3573	Script Analysis
Modification +Online/Distance	PS 3193	Intergovernmental Relations
Modification +Online/Distance	PS 4703	Principles of Public Administration
Addition +Meridian	SJ 4993	Social Justice Studies Capstone
Modification +Online/Distance	ST 8263	Advanced Regression Analysis

ENGINEERING

Addition	ABE 6443 (split level with ABE 4443)	Spectroscopic Sensing in Biosystems
+Online/Distance	ASE 4523	Aircraft Design II (tabled at March 5, 2021 meeting)
Addition +Online/Distance +Gulf Coast	ECE 3244	Electronics I

Addition +Online/Distance +Gulf Coast	ECE 3253	Electronics II
Addition +Online/Distance +Gulf Coast	ECE 3421	Circuits I Lab
Addition +Online/Distance +Gulf Coast	ECE 3423	Circuits I
Addition +Online/Distance +Gulf Coast	ECE 3433	Circuits II
+Online/Distance	ECE 3614	Fundamentals of Energy Systems
+Online/Distance	ECE 3714	Digital Devices and Logic Design
+Online/Distance	ECE 3724	Microprocessors
Modification +Online/Distance	ECE 4724/6724	Embedded Systems

5. Degree proposals by college/school

ARTS AND SCIENCES

+Distance	MPPA	Public Policy and Administration
Addition	Minor	Social Justice Studies

ENGINEERING

Modification	BS	Computer Engineering (tabled at December 2, 2021 meeting)
Modification	BS	Electrical Engineering: Electrical Engineering, Power and Energy Engineering (tabled at December 2, 2021 meeting)

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: Political Science and Public Administration

Contact Person: Mike Potter Mail Stop: 9561 E-mail: mp2146@msstate.edu

Nature of Change: Distance Approval Date Initiated: 9/28/21 Effective Date: May 2022

Current Degree Program Name: Master of Public Policy and Administration
Major: n/a Concentration: n/a

New Degree Program Name: n/a
Major: n/a Concentration: n/a

Summary of Proposed Changes: Offer degree via distance education

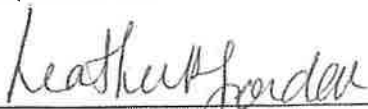
Approved:

Date:



Department Head

12/6/2021



Chair, College or School Curriculum Committee

12/17/21



Dean of College or School

12/8/21

Chair, University Committee on Courses and Curricula

Chair, Graduate Council(if applicable)

Chair, Deans Council

GRADUATE DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Master of Public Policy and Administration Major: n/a Concentrations: n/a		Degree: Master of Public Policy and Administration Major: n/a Concentrations: n/a	
The 42-hour Master of Public Policy and Administration (M.P.P.A.) program strives to professionalize and diversify public service. The program prepares persons to serve effectively as public administrators at the national, state, and local levels of government.		The 42-hour Master of Public Policy and Administration (M.P.P.A.) program strives to professionalize and diversify public service. The program prepares persons to serve effectively as public administrators at the national, state, and local levels of government.	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
<u>Master of Public Policy and Administration (Starkville)</u>		<u>Master of Public Policy and Administration (Distance)</u>	
PPA 8103 Seminar in Public Administration	3	PPA 8103 Seminar in Public Administration	3
PPA 8703 Government Organization and Administrative Theory	3	PPA 8703 Government Organization and Administrative Theory	3
PPA 8713 Public Personnel Management	3	PPA 8713 Public Personnel Management	3
PPA 8723 Public Budgeting and Financial Management	3	PPA 8723 Public Budgeting and Financial Management	3
PPA 8733 Public Program Evaluation	3	PPA 8733 Public Program Evaluation	3
PPA 8743 Administrative Law	3	PPA 8743 Administrative Law	3
PPA 8803 Research Methods for Public Affairs	3	PPA 8803 Research Methods for Public Affairs	3
PPA 8903 Public Policy	3	PPA 8903 Public Policy	3
PPA 8983 Integrative Capstone	3	PPA 8983 Integrative Capstone	3
PPA 8400 Public Administration Internship*	3	PPA 8400 Public Administration Internship*	3
Electives at the 6000/8000 level	12	Electives at the 6000/8000 level (from these classes):**	12
		PPA 8133 City County Management	
		PPA 8193 Seminar in Intergovernmental Relations	
		PPA 8833 Systems in Public Administration	
		PPA 8990 Special Topics in Public Administration	
		PPA 7000 Directed Individual Study in Political Science and Public Administration	
		EDF 8443 Evaluation of School Programs	
		EPY 6033 Application of Learning Theories	
		EPY 6073 Personal and Motivational Factors in Education	
		EPY 6214 Educational and Psychological Statistics	
		EPY 8214 Intermediate Educational and Psychological Statistics	
		EPY 8253 Child & Adolescent Development & Psychopathology	
		MGT 8103 Strategic and Entrepreneurial Management	
		MGT 8113 Leadership Skills for Managerial Behavior	
Total Hours	42	Total Hours	42

* Students who have worked for at least a year in a public or non-profit-oriented job may have the PPA 8400 requirement and its hours waived.

** Electives currently listed represent the courses available for Campus 5 at present. Substitutions may be approved by the program coordinator as additional courses become available.

1. Catalog Description

The 42-hour Master of Public Policy and Administration (M.P.P.A.) program strives to professionalize and diversify public service. The program prepares persons to serve effectively as public administrators at the national, state, and local levels of government.

Admission Criteria

A competitive applicant for the M.P.P.A. program must have completed the last two years of undergraduate work with a grade point average of 3.00; applicants with previous graduate work must have a grade point average of 3.00 on such coursework. Moreover, the applicant must submit three letters of recommendation, official transcript(s), and a Statement of Purpose. An applicant with a lower grade point average may be admitted provisionally if she or he has appropriate work experience.

Any international applicant whose native language is not English must submit scores that are not more than two years old from either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing Systems (IELTS). These applicants must have a score of 600 PBT (100 iBT) or better on the TOEFL or 7.5 on the IELTS.

A student who has not been enrolled for one regular semester (fall or spring) is required to submit a readmission form and a new statement of purpose. The readmission must be approved by the Graduate Coordinator. If a student has not been enrolled for one calendar year, the applicant must submit a new application and statement of purpose to be considered for readmission. The M.P.P.A. program accepts applications for Fall, Spring, and Summer semesters.

Provisional Admission

An applicant who has not fully met the GPA requirement stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a B). The first 9 hours of graduate courses must be within the student's program of study. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student shall be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; a student admitted with provisional status should contact the graduate coordinator for the program's specific requirements. **While in the provisional status, a student is not eligible to hold a graduate assistantship.**

Academic Probation

A student whose GPA fall below 3.00 will be placed on academic probation the following semester. See the complete Academic Probation policy in this catalog.

Unsatisfactory Performance

A student in the M.P.P.A. program will be dismissed if he or she receives a second grade of C or lower. He or she will also be dismissed if found responsible for violating the Student Honor Code for a second time. See the complete Graduate School policy on Academic Dismissal in this catalog.

Tuition and Fees

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

2. Proposed Curriculum Outline

Curriculum Outline	Required Hours
Core Courses	
PPA 8103 Seminar in Public Administration	3
PPA 8703 Government Organization and Administrative Theory	3
PPA 8713 Public Personnel Management	3
PPA 8723 Public Budgeting and Financial Management	3
PPA 8733 Public Program Evaluation	3
PPA 8743 Administrative Law	3
PPA 8803 Research Methods for Public Affairs	3
PPA 8903 Public Policy	3
PPA 8983 Integrative Capstone	3
PPA 8400 Public Administration Internship*	3
Electives at the 6000/8000 level (select from these classes):**	12
PPA 8133 City County Management	
PPA 8193 Seminar in Intergovernmental Relations	
PPA 8833 Systems in Public Administration	
PPA 8990 Special Topics in Public Administration	
PPA 7000 Directed Individual Study in Political Science and Public Administration	
EDF 8443 Evaluation of School Programs	
EPY 6033 Application of Learning Theories	
EPY 6073 Personal and Motivational Factors in Education	
EPY 6214 Educational and Psychological Statistics	
EPY 8214 Intermediate Educational and Psychological Statistics	
EPY 8253 Child & Adolescent Development & Psychopathology	
MGT 8103 Strategic and Entrepreneurial Management	
MGT 8113 Leadership Skills for Managerial Behavior	
Total Hours	42
<p>* Students who have worked for at least a year in a public or non-profit-oriented job may have the PPA 8400 requirements and its hours waived.</p> <p>** Electives currently listed represent the courses available for Campus 5 at present. Substitutions may be approved by the program coordinator as additional courses become available.</p>	

3. Justification for Distance Learning Offering

The MPPA program prepares students to serve as effective, ethical public administrators at the national, state, and local levels of government. Working professionals interested in pursuing more advanced study do not currently have a feasible option to do so at MSU. Offering the MPPA degree online will give these professionals the opportunity to remain in their current positions while deepening their knowledge and further developing their competency in the core tenets of public administration. It will also allow the department to remain competitive with other graduate programs in public affairs across Mississippi and the Southeast.

Target Audience

The target audience for the online MPPA program will be those who currently work in the field and desire professional development and career advancement opportunities, as well as those who seek to be more competitive for executive and managerial positions in state and federal government by holding an advanced degree from a NASPAA-accredited program.

4. Learning Outcomes

The Learning Outcomes are the same for both Campus 1 and Campus 5 students.

Universal Competency	Student Learning Goal	Course
To lead and manage in the public interest	Demonstrate competency in skills, tools, and procedures for managing human resources.	PPA 8713
	Demonstrate ability to identify, compare, and evaluate theories and methods for understanding behavior of people in organizations.	PPA 8703
To participate in, and contribute to, the policy process	Demonstrate competency in professional writing skills/written communication.	PPA 8733
	Demonstrate competency in oral presentation skills/communication.	PPA 8723
	Demonstrate competency in test validity and significance/hypothesis testing.	PPA 8803
	Understand the policy process (goals, types, criteria, problem definition).	PPA 8903
To analyze, synthesize, think critically, solve problems, and make evidence-informed decisions in a complex and dynamic environment	Demonstrate competency in information gathering, utilization, synthesis, and application.	PPA 8103
	Demonstrate competency in test validity and significance/hypothesis testing.	PPA 8803
	Understand the policy process (goals, types, criteria, problem definition).	PPA 8983
	Demonstrate ability to identify, compare, and evaluate theories and methods for understanding behavior of people in organizations.	PPA 8703
To articulate, apply, and advance a public service perspective	Demonstrate understanding of engaging citizens in participatory processes.	PPA 8743
	Understand the policy process (goals, types, criteria, problem definition).	PPA 8903
To communicate and interact productively and in culturally responsive ways with a diverse and changing workforce and society at large	Demonstrate competency in skills, tools, and procedures for managing human resources.	PPA 8713
	Demonstrate competency in professional writing skills/written communication.	PPA 8733
	Demonstrate competency in oral presentation skills/communication.	PPA 8723
	Demonstrate understanding of engaging citizens in participatory processes.	PPA 8743
	Demonstrate ability to identify, compare, and evaluate theories and methods for understanding behavior of people in organizations.	PPA 8703

5. Effective Date

May 2022

6. Contact Person

Dr. Mike Potter, Associate Professor and Graduate Coordinator
662-325-7852 • mp2146@msstate.edu

7. Letters of Support

See attachments for letters of support from PSPA, MGT, EPY.

8. IHL Form

PPA Courses

PPA 7000 Directed Individual Study in Political Science and Public Administration: 1-6 hours.
Hours and credits to be arranged

PPA 8103 Seminar in Public Administration: 3 hours.
(Prerequisite: consent of instructor). 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.
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 8193 Seminar in Intergovernmental Relations: 3 hours.
(Prerequisite: 9 hours of graduate work). Three hours lecture. Examines the current day functioning of the American federal system. Focuses upon national-state, national-local, interstate, state-local and interlocal relationships as well as fiscal federalism

PPA 8400 Public Administration Internship: 1-6 hours.
(Prerequisite: Consent of instructor). Hours and credits to be arranged. Individual work experience under faculty guidance in a governmental or public agency. Scholarly paper on approved topic required. Student evaluations are assigned on satisfactory/unsatisfactory basis

PPA 8703 Government Organization and Administrative Theory: 3 hours.
Detailed survey of organization theories and managerial techniques as they relate to the public sector

PPA 8713 Public Personnel Management: 3 hours.
Course considers major developments in the issues and management practices affecting personnel such as affirmative action, unions, and civil service reforms

PPA 8723 Public Budgeting and Financial Management: 3 hours.
Analysis of current financial and budgetary techniques as they apply to the public sector. Capital budgeting, debt administration, and financial management

PPA 8733 Public Program Evaluation: 3 hours.
Techniques and analytical methods of assessing governmental program success. Special emphasis will be given to program designs, data collection and quantitative applications

PPA 8743 Administrative Law: 3 hours.
(Prerequisite: PS 4703/6703). Three hours lecture. An environmental study of the legal nature and effect of policies and attitudes of government toward business, especially the power and limitations of regulatory agencies

PPA 8803 Research Methods for Public Affairs: 3 hours.
Stress on research designs and methods, survey research and other techniques and measuring data. Focus on applied approaches for mathematically analyzing governmental data. (Same as PS 8803)

PPA 8833 Systems in Public Administration: 3 hours.
(Prerequisite: BIS 1013, CS 1013, TKT 4273/6273, or equivalent). Three hours lecture. Role of automated, computer-based systems in government; their impact on the workplace, government institutions, and the governmental systems; selected topical applications

PPA 8903 Public Policy: 3 hours.
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. (Same as PS 8903)

PPA 8983 Integrative Capstone: 3 hours.

(Prerequisites: Consent of Instructor). Three hours lecture. A groups-based consulting project on an issue currently facing a governmental or nonprofit organization. (should be taken in terminal semester of degree program)

PPA 8990 Special Topics in Political Science and Public Administration: 1-9 hours.

Credit and title to be arranged. This course is to be used on a limited basis to offer developing subject matter areas not covered in existing courses. (Courses limited to two offerings under one title within two academic years)

Elective Courses

MGT 8103 Strategic and Entrepreneurial Management: 3 hours.

This course focuses on how organizations create sustained competitive advantages through environmental scanning, strategic thinking, strategic communication and a commitment to action

MGT 8113 Leadership Skills for Managerial Behavior: 3 hours.

Three hours lecture. Survey of major behavioral skills used by managers to help them build human capital and influence behavior in an organizational setting

EDF 8443 Evaluation of School Programs: 3 hours.

Three hours lecture. The course provides an overview of evaluation as an inquiry process. Frameworks and models for planning evaluation studies are discussed and applications are demonstrated

EPY 6033 Application of Learning Theories: 3 hours.

(Prerequisite: EPY 3513 or permission of instructor). Three hours lecture. Critical review of literature on learning in applied settings

EPY 6073 Personal and Motivational Factors in Education: 3 hours.

Three hours lecture. Theories of personality development and motivation in education settings with special attention to culture and interpersonal relations

EPY 6214 Educational and Psychological Statistics: 4 hours.

Three hours lecture and three hours laboratory. A course in statistics for education and educational psychology majors. Analysis, description of and inference from various types of data

EPY 8214 Intermediate Educational and Psychological Statistics: 4 hours.

(Prerequisite: EPY 4214/6214 or its equivalent.) Three hours lecture and three hours laboratory. ANOVA techniques and regression analysis are discussed with emphasis upon the design and analysis of research problems in education and psychology

EPY 8253 Child & Adolescent Development & Psychopathology: 3 hours.

Three hours lecture. Critical survey of recent problems, methods, and research in both the normal and abnormal psychological development of children and adolescents

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

Institution:

Date of Initial Program Approval:	Date of Implementation:	Cost to Offer by Distance Learning:
Prior to 2000	05/2022	\$24,000

Program Title as It Appears on Academic Program Inventory, Diploma, and Transcript:

Six-Digit CIP Code(s) & Four-Digit Sequence Code(s):

Master of Public Policy and Administration

440401 & 4059

CIP & Sequence codes: [IHL Active Program Inventory](#)

Degree(s) to be Awarded:

Master of Public Policy and Administration

Credit Hour Requirements: 42

Can this program be completed entirely online? Yes No

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

Responsible Academic Unit(s):

Department of Political Science and Public Administration

Institutional Contact: Dr. Mike Potter

Phone: 662-325-7852

Email: mp2146@msstate.edu

Number of Students Expected to Enroll in First Five Years:

Year One	2
Year Two	6
Year Three	6
Year Four	10
Year Five	12
Total	36

Number of Graduates Expected in First Five Years:

Year One	0
Year Two	2
Year Three	6
Year Four	6
Year Five	10
Total	24

Program Summary:

The M.P.P.A. is a professional degree that trains students to be leaders in public and non-profit organizations. The program of graduate study is offered in the Department of Political Science and Public Administration and teaches budgeting, leadership, policy analysis, and program evaluation. The program of study of a Master of Public Policy and Administration degree includes advanced courses in Public Affairs (24 hours), Research Methods (3 hours), an internship (3 hours) and elective courses (12 hours) selected based on student's career goals and interests. Students develop their program of study in consultation with their graduate coordinator.

Chief Academic Officer Signature

Date

Institutional Executive Officer Signature

Date



MISSISSIPPI STATE
UNIVERSITY

**Department of Political Science and
Public Administration |**

456 Hardy Avenue
P.O. Box PC
Mississippi State, MS
39762

August 1, 2021

University Committee on Courses & Curricula
218 Garner Hall
Mailstop 9702
Mississippi State University

UCCC Committee,

The Department of Political Science and Public Administration faculty is seeking approval of offering the Masters of Public Policy and Administration through distance. A resolution to this effect was voted unanimously (approved) through a vote by the faculty on 2/5/2021. Distance components to all necessary course-work has been approved.

Please don't hesitate to contact me if additional information is needed.

Sincerely,

Mike Potter
Graduate Coordinator
Associate Professor

P. Edward French
MPPA Curriculum Committee Member
Professor

Sawsan Abutabenjeh
Sawsan Abutabenjeh
MPPA Curriculum Committee Member
Associate Professor

Julius Nukpezah
Julius Nukpezah
MPPA Curriculum Committee Member
Assistant Professor

Dragan
Dragan Stanisievski
MPPA Curriculum Committee Member
Associate Professor

Christine Rush
MPPA Curriculum Committee Member
Associate Professor

Tamara Markoski
Tamara Markoski
MPPA Curriculum Committee Member
Assistant Professor

Signature: 
Dragan Stanisevski (Aug 6, 2021 17:31 CDT)
Email: dstanisevski@pspa.msstate.edu

Signature: *Tamara Markoski*
Tamara Markoski (Aug 7, 2021 10:00 CDT)
Email: tamara.markoski@msstate.edu

Signature: 
Julius Nukpezah (Aug 7, 2021 10:04 CDT)
Email: jnukpezah@pspa.msstate.edu

Signature: 
Sawstan Abutabenjeh (Aug 7, 2021 22:13 EDT)
Email: sawsan.abutabenjeh@msstate.edu

Signature:
Email: crush@pspa.msstate.edu

Signature:
Email: efrench@pspa.msstate.edu



October 7, 2021

Members of the UCCC:

The Department of Counseling, Educational Psychology, and Foundations supports the proposal to offer the Master of Public Policy and Administration via distance.

I have reviewed the proposal and support the utilization of our courses in this project. We understand that students in the MPPA distance program may enroll in the following courses as electives:

- EDF 8443 Evaluation of School Programs
- EPY 6033 Application of Learning Theories
- EPY 6073 Personal and Motivational Factors in Education
- EPY 6214 Educational and Psychological Statistics
- EPY 8214 Intermediate Educational and Psychological Statistics
- EPY 8253 Child & Adolescent Development & Psychopathology

Sincerely,

Daniel Gadke, Ph.D.

Digitally signed by Daniel Gadke,

Ph.D.

Date: 2021.10.11 11:16:25 -05'00'

Dr. Daniel Gadke

Professor and Head, Department of Counseling, Educational Psychology, and Foundations
Interim Associate Dean of Research, College of Education



MISSISSIPPI STATE
UNIVERSITY™

**Department of Political Science and
Public Administration |**

456 Hardy Avenue
P.O. Box PC
Mississippi State, MS
39762

August 1, 2021

University Committee on Courses & Curricula
218 Garner Hall
Mailstop 9702
Mississippi State University

UCCC Committee,

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Please don't hesitate to contact me if additional information is needed.

Sincerely,

Mike Potter
Graduate Coordinator
Associate Professor

P.Edward French
MPPA Curriculum Committee Member
Professor


Sawsan Abutabenjeh
MPPA Curriculum Committee Member
Associate Professor

Julius Nukpezah
MPPA Curriculum Committee Member
Assistant Professor


Dragan
Dragan Stanisievski
MPPA Curriculum Committee Member
Associate Professor

Christine Rush
MPPA Curriculum Committee Member
Associate Professor

Tamara Markoski
MPPA Curriculum Committee Member
Assistant Professor

Signature: 
Dragan Stanisevski (Aug 6, 2021 17:31 CDT)
Email: dstanisevski@pspa.msstate.edu

Signature: *Tamara Markoski*
Tamara Markoski (Aug 7, 2021 10:00 CDT)
Email: tamara.markoski@msstate.edu

Signature: 
Julius Nukpezah (Aug 7, 2021 10:04 CDT)
Email: jnukpezah@pspa.msstate.edu

Signature: 
Sawsan Abutabenjeh (Aug 7, 2021 22:13 EDT)
Email: sawsan.abutabenjeh@msstate.edu

Signature:
Email: crush@pspa.msstate.edu

Signature:
Email: efrench@pspa.msstate.edu



**MISSISSIPPI STATE
UNIVERSITY**

**Department of Political Science and
Public Administration I**

456 Hardy Avenue
P.O. Box PC
Mississippi State, MS
39762

August 1, 2021

University Committee on Courses & Curricula
218 Garner Hall
Mailstop 9702
Mississippi State University

UCCC Committee,

The Department of Political Science and Public Administration faculty is seeking approval of offering the Masters of Public Policy and Administration through distance. A resolution to this effect was voted unanimously (approved) through a vote by the faculty on 2/5/2021. Distance components to all necessary course-work has been approved.

Please don't hesitate to contact me if additional information is needed.

Sincerely,

Mike Potter
Graduate Coordinator
Associate Professor

P. Edward French
MPPA Curriculum Committee Member
Professor

Sawsan Abutabenjeh

Sawsan Abutabenjeh
MPPA Curriculum Committee Member
Associate Professor

Julius Nukpezah

Julius Nukpezah
MPPA Curriculum Committee Member
Assistant Professor

Dragan

Dragan Stanisievski
MPPA Curriculum Committee Member
Associate Professor

Christine Rush
MPPA Curriculum Committee Member
Associate Professor

Tamara Markoski

Tamara Markoski
MPPA Curriculum Committee Member
Assistant Professor



MISSISSIPPI STATE
UNIVERSITY™

College of Arts & Sciences
Dean's Office

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

P. 662.325.1665

F. 662.325.8740

www.cas.msstate.edu

October 13 2021

Members of the UCCC:

The Department of Management & Information Systems supports the proposal to offer the Master of Public Policy and Administration via distance.

I support the utilization of our courses in this distance program. We understand that students in the MPPA distance program may enroll in the following courses as electives provided seats are available:

- MGT 8103 Strategic and Entrepreneurial Management
- MGT 8113 Leadership Skills for Managerial Behavior

Sincerely,

Dr. Laura Marler
Department Head, Management & Information Systems
Family Business Education Initiative Director
Jim and Pat Coggin Endowed Professor of Management



MISSISSIPPI STATE UNIVERSITY™
DEPARTMENT OF POLITICAL SCIENCE
AND PUBLIC ADMINISTRATION

October 8, 2021

University Committee on Courses & Curricula
218 Garner Hall
Mailstop 9702
Mississippi State University

UCCC Committee:

The Department of Political Science and Public Administration faculty is seeking approval of offering the Masters of Public Policy and Administration through distance. A resolution to this effect was voted unanimously (approved) through a vote by the faculty on 2/5/2021. Distance components to all necessary course-work has been approved.

I also support this curriculum change.

Dr. Brian Shoup
Department Head
Political Science and Public Administration

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: Gender Studies

Contact Person: Kimberly Kelly

Mail Stop: 9744

E-mail: kk435@msstate.edu

Nature of Change: New Minor

Date Initiated: 07/23/21 **Effective Date:** Summer 2022

Current Degree Program Name: N/A

Major: N/A

Concentration: N/A

New Degree Program Name: Minor in Social Justice Studies

Major:

Concentration:

Summary of Proposed Changes:

Addition of an interdisciplinary minor in Social Justice Studies.

Approved:

Date:

Kimberly Kelly

11/23/2021

Department Head

Heather Jordan

Chair, College or School Curriculum Committee

12/23/21

Melinda King

Dean of College or School

1/5/2022

Chair, University Committee on Courses and Curricula

Chair, Graduate Council(if applicable)

Chair, Deans Council

Proposal for Minor in Social Justice Studies

Summary of Proposed Changes

The Minor in Social Justice Studies is designed for students who seek to learn about the causes and consequences of various social problems and strategies for addressing social inequalities. The minor will allow students with various majors to engage in the inter-disciplinary study of social justice and will prepare them for personal and professional civic engagement. Students will benefit from a program of study that allows them to explore multiple social inequalities, focus on areas of particular individual interest, develop applied and community-engaged skills, and connect with communities engaged in efforts to pursue social change.

1. Catalog Description

Social justice studies is an interdisciplinary field that examines the causes and consequences of social inequities; types and forms of social change; and applied approaches to advancing social justice and equity. Social justice studies examines both the historical roots and contemporary forms of injustice and emphasizes applied and community-engaged learning as well as more traditional academic study.

Administration

The Social Justice Studies minor is housed in the College of Arts & Sciences and administered by the Director of Gender Studies. Participating programs include Gender Studies and African American Studies, as well as the departments of Anthropology, Communication, English, Geosciences, History, Philosophy & Religion, Political Science, Psychology, and Sociology.

2. Curriculum Outline

PROPOSED New Minor	
Minor: Social Justice Studies	
Undergraduate students would earn a Social Justice Studies minor by completing 18 credits of course work from a variety of fields distributed as follows; only 6 credits from any one department may count toward the minor. No more than 6 total hours may be at the 1000 or 2000 level. The remaining hours must be 3000 or 4000 level.	
Proposed Curriculum Outline	Required Hours
GS/SO/SJ 1303 Introduction to Social Justice Studies	3
Causes and Consequences of Social Injustice: AAS 1103 Introduction to African American Studies AAS/HI 3013 African American History AAS/HI 3023 African American History since 1865 AAS/SO/CRM 3353 Race, Crime and Justice AAS/HI 4363 African-American History and Culture AAS/AN/SO 2203 Introduction to Race and Ethnicity AAS 4643 Race and the Media AN/SO AN 4173 Environment and Society AN 4323 Plagues and People AN 4333 Anthropology of Violence CO 4323 Mass Media and Society CO/SO/AAS 4643 Race and Media	6

<p>CRM 2003 Crime, Justice, and Inequality CRM 3363 Globalization and Crime CRM 3503 Violence in the United States CRM 4253 White Collar and Elite Deviance CRM/SO 4523 Law and Society CRM/SO 4233 Juvenile Delinquency CRM/SO 4243 Drugs, Crime and Control CRM/SO 4323 Victimology CRM/SO 4343 Media, Crime and Justice EN/AAS 2363 Introduction to African American Literature EN 4333: Southern Literature EN/AAS 4343 Studies in African American Literature EN/AAS 4393 Postcolonial Literatures and Theory GS/AAS/HI 3713 History of African American Women GS/CO 4233 Gender and Media GS/CO 4263 Gender Communication GS/SO/AN 1173 Introduction to Gender Studies GS/PS 3033 Gender and Politics GS 3343/CRM 3343 Gender, Crime, and Justice GS/EN 3513 Women and Literature GS/SO/EN 4133 Feminist Theories GS 4413/SO 4403 Sociology of Gender and Sexuality GS/SO 4503 Gender and Work GS/SO/SW 4543 Gender and Food* GR 2013 Human Geography GR 4123 Urban Geography GR 4263 Geographies of the US South HI 3333 Mississippi History HI 4273 Women in American History HI 4283 History of Southern Women HI 4293 History of Gender and Science HI 4343 Immigration and Ethnicity in the United States HI 4393 Rural America PHI 3183 African American Philosophy PHI 3313 Environmental Ethics PHI 3173 Social and Political Philosophy PS 4523 Democracy and Inequality PS 4643 Ethnic Conflict PS 4653 Nationalism PSY 3203 Psychology of Gender Differences PSY 4223 Drug Use and Abuse REL 3103 Religion & U.S. Culture REL 3113 Religions and Environment REL 3143 African American Religious Experience SO 1103 Contemporary Social Problems SO 3003 Social Inequality SO 3503 Violence in the United States SO 4273 Sociology of Education SO 4423 Health and Society SO 4703 Population Problems and Processes SW 2303 Social Welfare Policy I SW 2323 Social Welfare Policy II SW 3003 Social Work with At-Risk Populations*</p>	
<p>Applied Learning and Social Change: AAS/PS 3043 Modern Civil Rights Law AAS/PS 4273 African American Politics AAS/HI 4373 History of the Modern Civil Rights Movement AAS 4383 African American Leadership in the Twentieth Century</p>	6

<p>AAS/HI 4983 African Americans and the Law AN 3343 Introduction to Forensic Anthropology CO 4213 Political Communication* CO 4253 Elements of Persuasion* CO 4273 Intercultural Communication* CO 4283 Health Communication* CO 4313 Mass Media Law CO 4043 Communication and Leadership* CO 4803 Research in Public Relations and Advertising* CO 4813 Public Relations in Organizations* CRM 4153 Mentoring for At-Risk Youths* GG 4543 Community Engagement in Environmental Geoscience* GS/SO/AAS 4143 Gender, Race, and Social Movements HI 3343 Delta History Service and Experiential Spring Break* PS 3013 Political Leadership PS 3063 Constitutional Powers PS 3073 Civil Liberties PS 3183 Law and Politics PS 3193 Intergovernmental Relations PS 4113 State Government PS 4163 The Chief Executive PS 4173 Legislative Process PS 4183 Judicial Process PS 4193 Mississippi Judicial System PS 4203 Political Parties and Electoral Problems PS 4213 Campaign Politics PS 4223 The Dynamics of American Democracy PS 4233 Interest Groups PS 4243 State Election Policy and Politics PS 4263 Mississippi Government and Politics PS 4293 Political Behavior PS 4393 The Global Context PS 4633 Democracy and Democratization PS 4464 Political Analysis*(4 hours) PS 4743 Environmental Policy PSY 2123 Perspectives on Child Maltreatment and Child Advocacy PSY 3123 Global Child Advocacy Issues PSY 4133 Multidisciplinary Responses to Child Maltreatment/Trauma* SW 2313. Introduction Social Work and Social Welfare</p>	
<p>SJ 4993 Social Justice Minor Capstone*¹</p>	<p>3</p>
<p>* Indicates applied or community-engaged learning course. Students must take at least one community-engaged learning course in addition to the Capstone to fulfill minor requirements. Students may petition the minor advisor to count courses not on this list as appropriate.</p> <p>¹Indicates course will be proposed to UCCC for approval.</p> <p>Only 6 hours from a single department may be counted toward the minor.</p> <p>At least 12 hours must be 3000-4000 level.</p>	<p>--</p>
<p>Total Hours</p>	<p>18</p>

3. Justification and Learning Outcomes

Justification

Social justice studies offers an interdisciplinary approach to understanding the causes and consequences of unjust social institutions, theoretically rigorous explorations of belief systems and practices that contribute to inequality, and empirically informed evaluation of social change solutions and strategic interventions. Evaluating social inequalities through the lens of multiple disciplines and the commitment to applied study are core strengths of this academic discipline. Social justice studies also facilitates the exchange of ideas and critically thinking about local and global ideals of justice.

The increased focus on racial and other forms of injustice makes social justice studies an increasingly relevant field, both in terms of students' intellectual curiosity as well as employers' expectations that employees possess strong backgrounds in cultural competence and an appreciation and understanding of diversity, equity, and inclusion (DEI). Students would benefit from a program that allows them to explore numerous social inequalities, pursue in-depth study of specific forms of injustice, and helps them utilize practical skills and strategies for the pursuing social change. The Social Justice Studies minor will also connect students to a network of individual change-makers and advocacy organizations. Many of the social inequalities covered in social justice studies are especially relevant to students seeking to work and live in Mississippi or the Southeastern U.S. This minor will offer students problem-solving skills and real-world learning opportunities that encourage them to invest in their local communities.

Relation to Existing Curriculum

Mississippi State University's Gender Studies minor, African American Studies minor, Sociology major, and Sociology minor also include a number of courses included in the Social Justice Studies minor. Duplication, however, is not a concern because (1) the introductory and capstone courses (6 hours) for the Social Justice Studies minor do not count toward any other minor or major, except as a free elective; (2) students may take no more than six hours in any one discipline; and (3) none of the other minors listed above have an applied or community-engaged learning component. These two features of the Social Justice Studies minor, along with its much broader scope of topics, work to ensure students are crafting unique courses of study and not mirroring others.

The Gender Studies minor and African American Studies minor allow students to explore social inequalities with a focus on sexism and racism. In contrast, a Social Justice Studies minor will enable students to explore more sources of inequality yet develop and explore areas of personal or professional interest. Sociology majors and minors can explore a range of social problems and inequalities, yet sociology does not explicitly focus on applied or community-engaged learning. Students enrolled in this minor will examine the historical, political, social, economic, and cultural factors contributing to all forms of injustice. However, they will also learn practical and applied problem-solving skills that will help them pursue social justice in other fields of study or careers. A program that allows students to explore a broader range of social inequalities, understand these inequalities as connected, and provides students with practical skills and strategies for addressing social injustice is directly beneficial to students with various majors and career interests.

Learning Outcomes

Undergraduate students understand the causes and consequences of social injustices, processes of social change toward a more justice-oriented society, and applied practices towards alleviating social inequities.

Students who satisfy all requirements for this minor will:

- Demonstrate an understanding of major theories and methods utilized in social justice studies.
- Analyze how historical, political, social, economic, and cultural factors contribute to social inequalities and injustices.
- Demonstrate an understanding of the impact and effects of social injustices.
- Explore how social inequalities and injustices intersect and overlap.
- Apply theories and methods of social justice studies to understand differences in social problems locally and nationally.
- Demonstrate an understanding of the history and impact of social justice movements and activism.
- Explore the values and ethics that ground a commitment to social justice, diversity, and equity.
- Engage in innovative, analytical, and ethically informed problem-solving strategies that promote social justice in personal and professional settings.
- Apply social justice concepts to activism and advocacy work.
- Apply theories and methods of social justice studies to evaluate the effectiveness of different problem-solving strategies.

4. Support

Please see the attached letters of support from the directors of Gender Studies, African American Studies, and Social Work, as well as the heads from the departments of Anthropology, Communication, English, Geosciences, History, Philosophy & Religion, Political Science, Psychology, and Sociology.

5. Proposed 4-Letter Abbreviation

SJST

6. Effective Date

Summer 2022



October 18, 2021

Members of the UCCC:

The Gender Studies Program supports the new minor in Social Justice Studies.

I have reviewed the proposal and support the utilization of GS courses in this project. I understand that the minor in Social Justice Studies may include the following courses, which are part of the typical course rotation.

- GS 1173 Introduction to Gender Studies **cross-listed AN/SO*
- GS 3033 Gender and Politics **cross-listed PS*
- GS 3343 Gender, Crime and Justice **cross-listed CRM/SO*
- GS 3513 Women and Literature **cross-listed EN*
- GS 3713 History of African American Women **cross-listed AAS/HI*
- GS 4133 Feminist Theories **cross-listed EN/SO*
- GS 4143 Gender, Race and Social Movements **cross-listed AAS/SO*
- GS 4233 Gender and Media **cross-listed CO*
- GS 4263 Gender Communication **cross-listed CO*
- GS 4413 Sociology of Gender and Sexuality **cross-listed SO 4403*
- GS 4503 Gender and Work **cross-listed SO*
- GS 4543 Gender and Food **cross-listed SO/SW*

Sincerely,

Dr. Kimberly Kelly
Director, Gender Studies
Associate Professor, Department of Sociology



September 15, 2021

Members of the UCCC:

The African American Studies Program supports the new minor in Social Justice Studies.

I have reviewed the proposal and support the utilization of AAS courses in this project. I understand that the minor in Social Justice Studies may include the following courses, which are part of the typical course rotation.

- AAS 1063 Introduction to African American Studies
- AAS 2203 Introduction to Race and Ethnicity **cross-listed AN/SO*
- AAS 2363 Introduction to African American Literature **cross-listed EN*
- AAS 3013 African American History **cross-listed HI*
- AAS 3023 African American History since 1865 **cross-listed HI*
- AAS 3043 Modern Civil Rights Law **cross-listed PS*
- AAS 3353 Race, Crime and Justice **cross-listed CRM/SO*
- AAS 3713 History of African American Women **cross-listed GS/HI*
- AAS 4143 Gender, Race and Social Movements **cross-listed GS/SO*
- AAS 4273 African American Politics **cross-listed PS*
- AAS 4343 Studies in African American Literature **cross-listed EN*
- AAS 4363 African American History and Culture **cross-listed HI*
- AAS 4373 History of the Modern Civil Rights Movement **cross-listed HI*
- AAS 4383 African American Leadership in the Twentieth Century
- AAS 4393 Postcolonial Literature and Theory **cross-listed EN*
- AAS 4643 Race and the Media **cross-listed CO/SO*
- AAS 4983 African Americans and the Law **cross-listed HI*

Sincerely,

Dr. Don Shaffer
Director, African American Studies
Associate Professor, Department of English



Dear Chair, University Committee on Courses and Curriculum,

Please accept this letter of support for the Minor in Social Justice Studies. The Social Work Program offers several courses that align with this minor. We propose that the following courses be included in the curriculum.

Causes and Consequences category

- SW 2303- Social Welfare Policy I
- SW 2323- Social Welfare Policy II
- SW 3003-Social Work with At-Risk Populations

Applied and Community-Engaged Learning category

- SW 2313 Introduction to Social Work and Social Welfare

We voted on this proposal at the Department of Sociology faculty meeting on Friday, November 5, 2021, and had majority support from faculty members. Please contact Dr. Kenya Cistrunk, Chair of the Social Work Program Curriculum and Policy Committee, if you have any further questions.

Sincerely,

Social Work Curriculum and Policy Committee

Department of Sociology, Criminology and Social Work

Laura Boltz,

Kenya M. Cistrunk

Jada Johnson

Veronica Knowles



MISSISSIPPI STATE
UNIVERSITY™

COLLEGE OF ARTS & SCIENCES
ANTHROPOLOGY AND MIDDLE
EASTERN CULTURES

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October 25, 2021

Dr. Kimberly Kelly
Director of Gender Studies
Mississippi State University

Dear Dr. Kelly,

I am writing on behalf of the Department of Anthropology and Middle Eastern Cultures (AMEC) to confirm that the AMEC Curriculum Committee has reviewed the Minor in Social Justice Studies proposal and has agreed to support it.

Thank you for including anthropology courses in your minor proposal and we wish you much success in your endeavor.

Should you need additional information, please do not hesitate to contact me.

Sincerely,

Dr. Hsain Ilahiane
Department Head, Professor

Dr. Anna Osterholtz
Chair, AMEC Curriculum Committee, Assistant Professor

Dr. Shane Miller
AMEC Curriculum Committee Member, Associate Professor








Dr. Kate McClellan
AMEC Curriculum Committee Member, Assistant Professor



October 26, 2021

Dear Curriculum Committees:

The curriculum committee of the Department of Communication has met and is pleased to write a support letter in favor of the proposed minor in Social Justice Studies housed by Gender Studies. We feel the Communication classes listed in the proposal are a good fit for this minor and we are happy to be involved with it.

Faculty Member	Approve	Disapprove	Abstain
 Wendy Roussin, MFA Associate Professor & Chair	X		
 Kevin William, PhD Associate Professor	X		
 Melody Fisher, PhD Associate Professor	X		
 Hollie Seitz, PhD Assistant Professor	X		
 Matthew Webb, MFA Assistant Clinical Professor	X		
 Cheryl Chambers, MA Instructor	X		
 Chris Misun, MS Instructor	X		



MISSISSIPPI STATE UNIVERSITY™
DEPARTMENT OF ENGLISH

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

FROM: Ted Atkinson DocuSigned by:
Ted Atkinson
DF8D178E9E4661
Chair, Department of English Curriculum Committee

RE: Proposed Social Justice Studies Minor

DATE: October 21, 2021

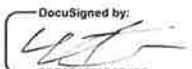
Today the Department of English Curriculum Committee voted unanimously to support the proposed minor in Social Justice Studies with the inclusion of the following courses from our department among the options for fulfilling the requirements:

AAS/EN 2363 Introduction to African American Literature
AAS/EN 4343 Studies in African American Literature
EN/GS 3513 Women and Literature
EN/GS/SO 4133 Feminist Theories
EN 4333 Southern Literature
EN 4393 Postcolonial Literature and Theory

Committee members:

DocuSigned by:

CB8A8C9982A7485
Shalyn Claggett

DocuSigned by:

7DE0E0560B5E4FD
Taylor Garner

DocuSigned by:

EFED9A899F4D4F5
Ginger Pizer

DocuSigned by:

DEAB65F73108443
Andrea Spain

DocuSigned by:

81BEAAF87AF742E
Ann Spurlock



MISSISSIPPI STATE UNIVERSITY

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

October 12, 2021

Dear Curriculum Committee Chair,

The Department of Geosciences Curriculum Committee has reviewed the newly proposed Minor in Social Justice Studies, and we fully support the minor’s development and integration into the curriculum. We also fully support the inclusion of some of our classes, specifically GR 2013 Human Geography, GR 4123 Urban Geography, GG 4543 Community Engagement in Environmental Geoscience, and GR 4263 Geographies of the U.S. South, within the proposed minor. We are excited about the future interactions between our departments that will result from this minor and the opportunities it will create for our students. If you have any questions or need additional information, please let us know.

Respectfully,

Andrew Mercer
Digitally signed by Andrew Mercer
Date: 2021.10.14 11:58:30 -05'00'

Andrew Mercer (Committee Chair)

Christopher Fuhrmann
Digitally signed by Christopher Fuhrmann
Date: 2021.10.15 10:25:21 -05'00'

Chris Fuhrmann (Committee Member)

Christa R. Haney
Digitally signed by Christa R. Haney
Date: 2021.10.15 11:05:54 -05'00'

Christa Haney (Committee Member)

Brian Williams
Digitally signed by Brian Williams
Date: 2021.10.15 11:14:17 -05'00'

Brian Williams (Committee Member)

Padmanava Dash
Digitally signed by Padmanava Dash
Date: 2021.10.15 07:04:18 -05'00'

Padmanava Dash (Committee Member)

Rinat Gabitov
Digitally signed by Rinat Gabitov
Date: 2021.10.16 17:52:47 -05'00'

Rinat Gabitov (Committee Member)

Sarah Lalk
Digitally signed by Sarah Lalk
DN: cn=Sarah Lalk, o, ou,
email=sp67@msstate.edu, c=US
Date: 2021.10.15 11:21:49 -05'00'

Sarah Lalk (Committee Member)

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



October 19, 2021

Members of the UCCC:

The Department of History supports the new minor in Social Justice Studies.

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

- HI 3013 African American History **cross-listed AAS*
- HI 3023 African American History since 1865 **cross-listed AAS*
- HI 3333 Mississippi History
- HI 3343 Delta History Service and Experiential Spring Break
- HI 3713 History of African American Women **cross-listed AAS/GS*
- HI 4273 Women in American History
- HI 4283 History of Southern Women
- HI 4293 History of Gender and Science
- HI 4343 Immigration and Ethnicity in the United States
- HI 4363 African American History and Culture **cross-listed AAS*
- HI 4373 History of the Modern Civil Rights Movement **cross-listed AAS*
- HI 4393 Rural America
- HI 4983 African Americans and the Law **cross-listed AAS*

Sincerely,

Dr. Alan Marcus
Professor and Head
Department of History

Dr. Matthew Lavine
Associate Professor of History
Chair, Undergraduate Curriculum Committee (on behalf of its members)



MISSISSIPPI STATE
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College of Arts & Sciences

Dean's Office

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October 19, 2021

Members of the UCCC:

The Department of History supports the new minor in Social Justice Studies.

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

- HI 3013 African American History **cross-listed AAS*
- HI 3023 African American History since 1865 **cross-listed AAS*
- HI 3333 Mississippi History
- HI 3343 Delta History Service and Experiential Spring Break
- HI 3713 History of African American Women **cross-listed AAS/GS*
- HI 4273 Women in American History
- HI 4283 History of Southern Women
- HI 4293 History of Gender and Science
- HI 4343 Immigration and Ethnicity in the United States
- HI 4363 African American History and Culture **cross-listed AAS*
- HI 4373 History of the Modern Civil Rights Movement **cross-listed AAS*
- HI 4393 Rural America
- HI 4983 African Americans and the Law **cross-listed AAS*

Sincerely,

Dr. Alan Marcus
Professor and Head
Department of History

Dr. Matthew Lavine
Associate Professor of History
Chair, Undergraduate Curriculum Committee (on behalf of its members)



J. Robert Thompson, Head
George Hall 1010
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www.philosophyandreligion.msstate.edu

September 15, 2021

Members of the UCCC:

The Department of Philosophy and Religion supports the new minor in Social Justice Studies.

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

- PHI 3173 Social and Political Philosophy
- PHI 3183 African American Philosophy
- PHI 3313 Environmental Ethics
- REL 3103 Religion and U.S. Culture
- REL 3113 Religions and Environment
- REL 3143 African American Religious Experience

Sincerely,

J. Robert Thompson, Ph.D.

Head

Department of Philosophy and Religion



MISSISSIPPI STATE
UNIVERSITY

COLLEGE OF ARTS & SCIENCES

Department of Political Science and

Public Administration

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October 8, 2021

Members of the UCCC:

The Department of Political Science and Public Administration supports the new minor in Social Justice Studies.

Members of the Department of Political Science and Public Administration Curriculum Committee and I have reviewed the proposal and support the utilization of our courses in this project. We understand that the minor in Social Justice Studies may include the following courses, which are part of our department's typical rotation.

- PS 3013 Political Leadership
- PS 3033 Gender and Politics **cross-listed GS*
- PS 3043 Modern Civil Rights Law **cross-listed AAS*
- PS 3063 Constitutional Powers
- PS 3073 Civil Liberties
- PS 3183 Law and Politics
- PS 3193 Intergovernmental Relations
- PS 4113 State Government
- PS 4163 The Chief Executive
- PS 4173 Legislative Process
- PS 4183 Judicial Process
- PS 4193 Mississippi Judicial System
- PS 4203 Political Parties and Electoral Problems
- PS 4213 Campaign Politics
- PS 4223 The Dynamics of American Democracy
- PS 4233 Interest Groups
- PS 4243 State Election Policy and Politics
- PS 4263 Mississippi Government and Politics
- PS 4273 African American Politics **cross-listed AAS*
- PS 4293 Political Behavior
- PS 4393 The Global Context
- PS 4464 Political Analysis
- PS 4523 Democracy and Inequality
- PS 4633 Democracy and Democratization
- PS 4643 Ethnic Conflict
- PS 4653 Nationalism
- PS 4743 Environmental Policy

Sincerely,

Dr. Brian Shoup
Associate Professor
Department of Political Science and Public Administration



October 9, 2021

Dear Members of the UCCC:

The Department of Psychology is delighted to support a proposed minor in *Social Justice Studies*.

Members of the Department of Psychology Curriculum Committee and I have reviewed the proposal for the minor and support the inclusion of our courses. We understand that the minor in *Social Justice Studies* may include the following courses, which are currently part of our department's typical rotation:

- PSY 3203 Psychology of Gender Differences
- PSY 4223 Drug Use and Abuse

We also support the inclusion of the following courses, which are currently undergoing the UCCC vetting process:

- PSY 2123 Perspectives on Child Maltreatment and Child Advocacy*
- PSY 3123 Global Child Advocacy Issues*
- PSY 4133 Multidisciplinary Responses to Child Maltreatment/Trauma*

**cross-listed with HDFS*

Sincerely,

Mitchell E. Berman, Ph.D.
Professor and Department Head

Email: mberman@psychology.msstate.edu

Telephone: 662.325.3666



October 25, 2021

Dear Chair, University Committee on Courses and Curriculum,

The Department of Sociology supports the new minor in Social Justice Studies. Members of the Undergraduate Curriculum and Policies Committee and the faculty have reviewed the proposal and support the utilization of our courses in this project. We understand that the minor in Social Justice Studies may include the following courses, which are part of our department's typical rotation.

- CRM 2003 Crime, Justice and Inequality
- CRM 3363 Globalization and Crime
- SO 1103 Contemporary Social Problems
- SO 1173 Intro to Gender Studies **cross-listed AN/GS*
- SO 1303 Introduction to Social Justice Studies **cross-listed GS*
- SO 2203 Introduction to Race and Ethnicity **cross-listed AAS/AN*
- SO 3003 Social Inequality
- SO 3343 Gender, Crime and Justice **cross-listed CRM/GS*
- SO 3353 Race, Crime and Justice **cross-listed AAS/CRM*
- SO 3503 Violence in the United States **cross-listed CRM*
- SO 4133 Feminist Theories **cross-listed EN/GS*
- SO 4143 Gender, Race, and Social Movements **cross-listed AAS/GS*
- SO 4153 Mentoring for At-Risk Youths **cross-listed CRM/SLCE*
- SO 4173 Environment and Society **cross-listed AN*
- SO 4233 Juvenile Delinquency **cross-listed CRM*
- SO 4243 Drugs, Crime and Control **cross-listed CRM*
- SO 4253 White Collar Crime and Elite Deviance **cross-listed CRM*
- SO 4273 Sociology of Education
- SO 4323 Victimology **cross-listed CRM*
- SO 4343 Media, Crime and Justice
- SO 4403 Sociology of Gender and Sexuality **cross-listed GS 4413*
- SO 4423 Health and Society
- SO 4503 Gender and Work **cross-listed GS*
- SO 4523 Law and Society **cross-listed CRM*
- SO 4543 Gender and Food **cross-listed GS/SW*
- SO 4643 Race and Media **cross-listed AAS/CO*
- SO 4703 Population Problems and Processes

- SO 4733 Community: Organization and Relationships

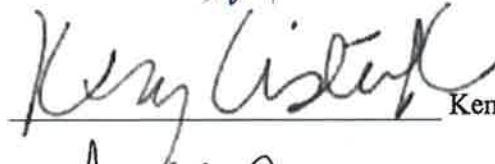
Please do not hesitate to contact us if I may be of further assistance.

Sincerely,

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

 Ashley Vancil-Leap (Committee Chair)

 Robert Boyd

 Kenya Cistrunk

 Ashley Perry



MISSISSIPPI STATE
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11 October 2021

Dr. Andy Perkins, Chair
University Committee on Courses and Curricula
281 Garner Hall
P.O. Box 5268
Mississippi State, MS 39762

Dear Dr. Perkins,

I am pleased to provide a letter of support for the proposed interdisciplinary minor in Social Justice Studies developed by the Gender Studies program in the College of Arts & Sciences. This is a timely and important addition to the curriculum.

Given the demographic profile of the student body at the Meridian Campus (67% female, 42% non-white) and the lived experience of residents in Meridian and surrounding counties, this minor will potentially enjoy broad appeal among a range of Arts & Sciences majors.

Much of the proposed curriculum is currently offered at the Meridian Campus in the regular rotation of courses. We look forward to working with the Gender Studies program to provide access to the new introductory and capstone courses in Social Justice Studies.

Sincerely,

Richard V. Damms
Associate Professor of History and Head
Division of Arts & Sciences
MSU-Meridian

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:** Electrical & Computer Engineering

Contact Person: Jean Mohammadi-Aragh **Mail Stop:** 9571 **E-mail:** jean@ece.msstate.edu

Nature of Change: revise circuits/electronics sequence

Date Initiated: 11/3/21 **Effective Date:** Fall 2022

Current Degree Program Name: Bachelor of Science in Computer Engineering

Major: Computer Engineering

Concentration:

New Degree Program Name:

Major: Computer Engineering

Concentration:

Summary of Proposed Changes:

The changes proposed are as follows:

1. Shift from a three-course combined circuits/electronics sequence to two two-course circuits and two-course electronics sequences.

The degree program will require the same number of credit hours (11 credit hours) within these new sequences, but the new format will allow us to reorganize topics to be consistent with current textbooks and allow us to connect the lab experience with the first circuits course rather than the second. Further, additional flexibility added by these changes will result in the removal of a five-course sequence that will allow transfer students to complete their degree in a more timely manner.

Approved:

Date:



Department Head

11/8/21

Dr. John Ball

Digitally signed by Dr. John Ball
DN: cn=Dr. John Ball, o=ECE, ou=ECE,
email=jball@ecc.msstate.edu, c=US
Date: 2021.11.09 08:23:11 -06'00'

11/9/21

Chair, College or School Curriculum Committee

Kari Babski-Reeves for Jason Keith

Digitally signed by Kari Babski-Reeves for Jason Keith

Date: 2021.11.09 13:28:23 -06'00'

Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council(if applicable)

Chair, Deans Council

**PROPOSAL FOR THE MODIFICATION OF THE
B.S. IN COMPUTER ENGINEERING**

1. CATALOG DESCRIPTION

No changes proposed.

2. CURRICULUM OUTLINE

The changes proposed are as follows:

1. Shift from a three-course combined circuits/electronics sequence to two two-course circuits and two-course electronics sequences.

The degree program will require the same number of credit hours (11 credit hours) within these new sequences.

Table 1. Comparison of Current CPE Degree and Proposed CPE Degree Programs

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science in Computer Engineering Major: Computer Engineering Concentration: N/A	Degree: Bachelor of Science in Computer Engineering Major: Computer Engineering Concentration:
<p>Alumni, employers, faculty and students participate in a process used to develop educational objectives for the undergraduate programs in Electrical Engineering and Computer Engineering. Within a few years of graduation, program graduates completing the baccalaureate degree in Electrical or Computer Engineering will:</p> <ul style="list-style-type: none"> • Be recognized by their peers as fundamentally sound in the application of mathematics, science, computing, and engineering. • Be engaged in the practice of Electrical or Computer Engineering as innovative problem solvers with a strong work ethic, by identifying and implementing solutions using the proper tools, practical approaches, and flexible thinking. • Be productive and demonstrate leadership in the practice of Electrical or Computer Engineering, both individually and within multidisciplinary teams, using effective oral and written communication skills when working with peers, supervisors, and the public. • Be responsible in the practice of Electrical or Computer Engineering, relying on sound engineering ethics, a commitment to lifelong learning and a genuine concern for society and the environment. 	<p>Alumni, employers, faculty and students participate in a process used to develop educational objectives for the undergraduate programs in Electrical Engineering and Computer Engineering. Within a few years of graduation, program graduates completing the baccalaureate degree in Electrical or Computer Engineering will:</p> <ul style="list-style-type: none"> • Be recognized by their peers as fundamentally sound in the application of mathematics, science, computing, and engineering. • Be engaged in the practice of Electrical or Computer Engineering as innovative problem solvers with a strong work ethic, by identifying and implementing solutions using the proper tools, practical approaches, and flexible thinking. • Be productive and demonstrate leadership in the practice of Electrical or Computer Engineering, both individually and within multidisciplinary teams, using effective oral and written communication skills when working with peers, supervisors, and the public. • Be responsible in the practice of Electrical or Computer Engineering, relying on sound engineering ethics, a commitment to lifelong learning and a genuine concern for society and the environment.

With the origin of the modern computer dating back to the late 1940's and the growth of computer hardware fueled by the availability of digital integrated circuits starting in the late 1960's, computer engineers have enjoyed a pivotal role in technology that now permeates our entire society. Whether the end product is an integrated circuit, a system of networked embedded computers, or any system that relies on digital hardware or computer software, its development requires the skills of a computer engineer. While computing systems include both hardware and software, it is the optimal combination of these components that is the unique realm of the computer engineer. Today, computer engineers are a driving force in the technological and economic development of the digital age.

The curriculum requirements for computer engineering are built around a substantial engineering core curriculum and required courses in electrical engineering and computer science. The requirements in mathematics, the basic sciences, and engineering sciences provide the breadth of exposure required for all engineering disciplines. Basic electrical engineering requirements include circuit theory, electronics and digital devices which are supplemented by upper-level courses in computer architecture, and computer aided design of digital systems. Basic computer science courses include a coordinated sequence providing fundamental knowledge in data structures, algorithms, object oriented programming, software engineering, real-time application and software development tools. These courses are developed across multiple platforms and are based on the Python and Java language. Upper-level courses in data communications and computer networks, algorithms and operating systems are also provided. Students wishing to gain depth of coverage in communications, parallel computing, VLSI, embedded systems or signal processing can achieve this with the availability of technical electives selected from an approved list or in consultation with a faculty advisor. Required courses in communications skills, social sciences and humanities provide studies in non-technical areas that are traditional in a broad-based education. A capstone senior design course requires students to apply newfound knowledge and explore entrepreneurship. Students research and identify a problem and work in teams applying a combination of hardware and software to develop a solution. Critical and Final Design Reviews enable students to develop their professional presentation skills.

Students expecting to graduate from Mississippi State University with a bachelor of science degree in computer engineering, in addition to satisfactorily completing the CPE curriculum requirements, must

With the origin of the modern computer dating back to the late 1940's and the growth of computer hardware fueled by the availability of digital integrated circuits starting in the late 1960's, computer engineers have enjoyed a pivotal role in technology that now permeates our entire society. Whether the end product is an integrated circuit, a system of networked embedded computers, or any system that relies on digital hardware or computer software, its development requires the skills of a computer engineer. While computing systems include both hardware and software, it is the optimal combination of these components that is the unique realm of the computer engineer. Today, computer engineers are a driving force in the technological and economic development of the digital age.

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Students expecting to graduate from Mississippi State University with a bachelor of science degree in computer engineering, in addition to satisfactorily completing the CPE curriculum requirements, must meet the following minimum GPA requirements for graduation:

meet the following minimum GPA requirements for graduation:

- make an overall C average on all hours scheduled and rescheduled at all institutions attended, including MSU (2.00 or better cumulative GPA)
- make a C average on all hours scheduled and rescheduled at MSU (2.00 or better MSU GPA)
- earn at least a 2.5/4.0 average on all hours with ECE or CSE course prefixes scheduled and rescheduled at all institutions attended, including MSU

The computer engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

This program is offered through joint efforts of faculty in the Department of Electrical and Computer Engineering and the Department of Computer Science and Engineering.

- make an overall C average on all hours scheduled and rescheduled at all institutions attended, including MSU (2.00 or better cumulative GPA)
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CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6	EN 1103 English Comp I or EN 1104 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6
Fine Arts: see General Education courses	3	Fine Arts: see General Education courses	3
Natural Sciences see Major Core		Natural Sciences see Major Core	
Math see Major Core		Math see Major Core	
Humanities see General Education courses	6	Humanities see General Education courses	6
Social/Behavioral Sciences see General Education courses	6	Social/Behavioral Sciences see General Education courses	6
Major Core Courses Math and Basic Science (31h) MA 1713 Calculus I	3	Major Core Courses Math and Basic Science (31h) MA 1713 Calculus I	3

MA 1723 Calculus II	3	MA 1723 Calculus II	3
MA 2733 Calculus III	3	MA 2733 Calculus III	3
MA 2743 Calculus IV	3	MA 2743 Calculus IV	3
MA 3113 Introduction to Linear Algebra	3	MA 3113 Introduction to Linear Algebra	3
MA 3253 Differential Equations I	3	MA 3253 Differential Equations I	3
IE 4613 Engineering Statistics I	3	IE 4613 Engineering Statistics I	3
CH 1213 Chemistry I	3	CH 1213 Chemistry I	3
CH 1211 Investigations in Chemistry I	1	CH 1211 Investigations in Chemistry I	1
PH 2213 Physics I	3	PH 2213 Physics I	3
PH 2223 Physics II	3	PH 2223 Physics II	3
Engineering Topics (70h)		Engineering Topics (70h)	
CSE 1284 Introduction to Computer Programming	4	CSE 1284 Introduction to Computer Programming	4
CSE 1384 Intermediate Computer Programming	4	CSE 1384 Intermediate Computer Programming	4
CSE 2383 Data Structures and Analysis of Algorithms	3	CSE 2383 Data Structures and Analysis of Algorithms	3
CSE 2813 Discrete Structures	3	CSE 2813 Discrete Structures	3
CSE 3324 Distributed Client/Server Programming	4	CSE 3324 Distributed Client/Server Programming	4
CSE 4733 Operating Systems I	3	CSE 4733 Operating Systems I	3
CSE 4833 Intro Analysis of Algorithms	3	CSE 4833 Intro Analysis of Algorithms	3
ECE 1013 Introduction to ECE Design I	3	ECE 1013 Introduction to ECE Design I	3
ECE 1022 Introduction to ECE Design II	2	ECE 1022 Introduction to ECE Design II	2
<i>ECE 3413 Introduction to Electronic Circuits</i>	3	ECE 3423 Circuits I	3
<i>ECE 3424 Intermediate Electronic Circuits</i>	4	ECE 3421 Circuits I Lab	1
<i>ECE 3434 Advanced Electronic Circuits</i>	4	ECE 3433 Circuits II	3
ECE 3443 Signals and Systems	3	ECE 3244 Electronics I	4
ECE 3714 Digital Devices and Logic Design	4	ECE 3443 Signals and Systems	3
ECE 3724 Microprocessors	4	ECE 3714 Digital Devices and Logic Design	4
ECE 4723 Embedded Systems or ECE 4263 Principles of VLSI Design	3	ECE 3724 Microprocessors	4
ECE 4532 CPE Design I	2	ECE 4723 Embedded Systems or ECE 4263 Principles of VLSI Design	3
ECE 4542 CPE Design II	2	ECE 4532 CPE Design I	2
ECE 4713 Computer Architecture	3	ECE 4542 CPE Design II	2
ECE 4743 Digital System Design	3	ECE 4713 Computer Architecture	3
ECE 4833 Data Communication and Computer Networks	3	ECE 4743 Digital System Design	3
CPE technical electives (6h)	6	ECE 4833 Data Communication and Computer Networks	3
Oral Communication Requirement Fulfilled in ECE 1013, ECE 1022, ECE 4532, ECE 4542, and GE 3513		CPE technical electives (6h)	6
Writing Requirement GE 3513 Technical Writing	3	Oral Communication Requirement Fulfilled in ECE 1013, ECE 1022, ECE 4532, ECE 4542, and GE 3513	
Computer Literacy Fulfilled in Engineering Topics courses		Writing Requirement GE 3513 Technical Writing	3
Concentration Courses		Computer Literacy Fulfilled in Engineering Topics courses	
		Concentration Courses	

Total Hours	128	Total Hours	128
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3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

We are shifting from a three-course sequence of combined circuits/electronics topics to two two-course sequences. The degree program will require the same number of credit hours (11 credit hours) within these new sequences, but the new format will allow us to reorganize topics to be consistent with current textbooks and allow us to connect the lab experience with the first circuits course rather than the second. Further, additional flexibility added by these changes will result in the removal of a five-course sequence that will allow transfer students to complete their degree in a more-timely manner.

1. **Update Circuits/Electronics Sequence:** The key motivations for revising and updating the Circuits and Electronics course sequence is to better prepare students to effectively solve circuits and electronics problems. The benefits of moving to two separate sequences are numerous. A few benefits include:
 - a. The merged circuits and electronics courses often cause confusion. Though circuits and electronics are closely-related topics, they are not the same. Students have trouble separating the two concepts. Moreover, most universities teach the topics separately, and it is hard for students to transfer credit to MSU that provides credit for our current sequence.
 - b. Though we are updating the sequence, we will continue to teach ECE 3413 Introduction to Electronic Circuits. ECE 3413 is required by other engineering majors but will no longer be required for ECE students. This returns us to our historical practices of offering a circuits/electronics course dedicated to non-majors. This allows us to offer a more effective curriculum for ECE and non-ECE students because course topics can be fine-tuned and offered at more appropriate levels for ECE and non-ECE students.
 - c. This update will allow us to shift a lab experience to the initial circuits course for ECE students. Currently, students are struggling in our circuits sequence. The ECE faculty think a hands-on lab experience in the first course will allow students to better grasp the material. Since circuits and electronics build on the fundamental concepts taught in the initial circuits course, it is critical for students to thoroughly understand the topics.
 - d. This reorganization and update will allow us to use the second circuits course a bridge for our signals and systems courses. We have identified signals and systems as a trouble area for student success. The signals and systems course covers numerous, complex topics. We are evaluating ways to reorganize that course, but for now, a first step is to provide some exposure to topics in earlier, related courses. This reorganization provides the opportunity to do that.
 - e. This reorganization will remove a five-course prerequisite chain that is currently in the program due to the three-course combined circuits/electronics sequence (ECE 3413 – ECE 3424 – ECE 3434) which is followed by a two-course senior design sequence (ECE 4512 – ECE 4522). Now transfer students will be able to enroll in senior design by their third semester and can finish their degree in four semesters instead of five semesters.

To provide clarity for circuits/electronics change. The below summaries are provided.

Current required courses impacted by this change (11 credit hours for EE and CPE):

- ECE 3413 – currently required for EE, CPE, AE, IE, and ME. Will continue offering and in the future work with AE, IE, and ME faculty to revise topics, if needed, for their students.
- ECE 3424 – currently required for EE and CPE; will phase out
- ECE 3434 – currently required for EE and CPE; will phase out
- Several courses will need prerequisite updates after new sequence is approved; these will be processed as technical changes when new courses are approved.

New required courses proposed (11 credit hours for EE and CPE):

- ECE 3423 Circuits I – required for EE and CPE. Equivalent to ECE 3413 but requires co-registration in lab.
- ECE 3421 Circuits I Lab – new standalone lab for introductory circuits topics. (Students who take ECE 3413 can take this lab to continue in ECE circuits and electronics courses.)
- ECE 3433 Circuits II – required for EE and CPE. New course to bridge circuits and signals and systems. Additional applications for circuits topics.
- ECE 3244 Electronics I – required for EE and CPE. Equivalent to ECE 3424

New elective courses proposed:

- ECE 3253 Electronics II (elective) – advanced electronics topics from current ECE 3434; can be taken as a technical elective.

As a result of this degree program modification, there are no changes to the student learning outcomes.

The CPE student learning outcomes are as follows:

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

- Will this program change result in duplication in the System? **No**
- Will this program change/advance student diversity within the discipline? **No**
- Will this program change result in an increase in the potential placement of graduates in MS, the Southeast, and the U.S.? **No**
- Will this program change result in an increase in the potential salaries of graduates in MS, the Southeast, and the U.S.? **No**

4. SUPPORT

See the attached letter from the ECE Undergraduate Committee. Changes in this degree program were discussed multiple times throughout the 2020-2021 academic year. Changes were recommended by the ECE Undergraduate Committee by unanimous vote in their March 22, 2021 meeting and approved by a vote of the ECE faculty on March 26, 2021.

See letter of support from CSE Department.

5. PROPOSED 4-LETTER ABBREVIATION

No changes

6. EFFECTIVE DATE

Fall 2022



March 26, 2021

TO: James W. Bagley College of Engineering Committee on Courses and Curricula & Mississippi State University University Committee on Courses and Curricula

FROM: Undergraduate Program Committee, Department of Electrical & Computer Engineering

RE: EE and CPE Degree Program Modifications

The CPE and EE degree program modifications submitted herein, including accompanying course revisions, were unanimously recommended by the ECE Undergraduate Committee on 3/22/2021 and approved by final vote of the ECE faculty on 3/26/2021.

Dr John Ball

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John Ball
 ECE Undergraduate Committee Chair

J. Patrick Donohoe

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Pat Donohoe
 Professor and Paul B. Jacob Chair

Ryan B Green

Ryan Green
 Assistant Professor

Umar Iqbal

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Umar Iqbal
 Assistant Clinical Professor

Khalid Miah

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Khalid Miah
 Assistant Clinical Professor

Jean Mohammadi-Aragh

Jean Mohammadi-Aragh
 ECE Undergraduate Committee Vice-Chair

Randy Follett

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Randy Follett
 Associate Professor

Ali Cafer Gurbuz

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Ali Gurbuz
 Assistant Professor

Masoud Karimi

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Masoud Karimi-Ghartemani
 Associate Professor

Jane N Moorhead

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 15:52:54 -05'00'

Jane Moorhead
 Instructor



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 14, 2021

Dear Dr. Mohammadi-Aragh:

The Department of Computer Science and Engineering supports the proposed changes to circuits/electronics sequence required for the BS in Computer Engineering.

Sincerely,

Andy D. Perkins, PhD
Professor and Associate Department Head

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:** Electrical & Computer Engineering

Contact Person: Jean Mohammadi-Aragh **Mail Stop:** 9571 **E-mail:** jean@ece.msstate.edu

Nature of Change: Update EE GPA requirement modifications, add flexibility through technical elective options, revise circuits/electronics sequence, add concentration

Date Initiated: 11/3/21 **Effective Date:** Fall 2022

Current Degree Program Name: Bachelor of Science in Electrical Engineering

Major: Electrical Engineering

Concentration:

New Degree Program Name:

Major: Electrical Engineering

Concentration: Electrical Engineering,
Power and Energy Engineering

Summary of Proposed Changes:

A summary of proposed changes follows:

1. Update the GPA requirements for EE
2. Remove ECE 3213 Solid State course from degree program and replace with an ECE technical elective option to increase flexibility.
3. Shift from a three-course combined circuits/electronics sequence to two two-course circuits and two-course electronics sequences. The degree program will require the same number of credit hours (11 credit hours) within these new sequences.
4. Add language for Power and Energy Engineering concentration

Approved:

Date:



Department Head

11/8/21

Dr. John Ball

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Date: 2021.11.09 08:24:46 -0600'

11/9/21

Chair, College or School Curriculum Committee

Kari Babski-Reeves for Jason Keith

Digitally signed by Kari Babski-Reeves for Jason Keith
Date: 2021.11.09 13:27:21 -06'00'

Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council(if applicable)

Chair, Deans Council

PROPOSAL FOR THE MODIFICATION OF THE B.S. IN ELECTRICAL ENGINEERING

1. CATALOG DESCRIPTION

No changes proposed.

2. CURRICULUM OUTLINE

The changes proposed are as follows:

1. Update the GPA requirements for EE
 - a. EOP 21 was mistakenly removed in a previous change. The following language from EOP 21 will be added: earn at least a 2.00 cumulative grade point average on all courses scheduled and rescheduled (average on all attempts) at MSU that are applied toward meeting degree requirements.
 - b. Remove “scheduled and rescheduled” for 2.5/4.0 GPA average requirement:
Replace “earn at least a 2.5/4.0 average on all hours with ECE or CSE course prefixes scheduled and rescheduled at all institutions attended, including MSU.” with “earn at least a 2.5/4.0 average on all hours with ECE or CSE course prefixes at all institutions attended, including MSU, that are applied toward meeting degree requirements.”
2. Remove ECE 3213 Solid State course from degree program and replace with an ECE technical elective option to increase flexibility.
3. Shift from a three-course combined circuits/electronics sequence to two two-course circuits and two-course electronics sequences. The degree program will require the same number of credit hours (11 credit hours) within these new sequences.
4. Add Power and Energy Engineering concentration.

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science in Electrical Engineering Major: Electrical Engineering Concentration: <i>N/A</i>	Degree: Bachelor of Science in Electrical Engineering Major: Electrical Engineering Concentration: Electrical Engineering
Alumni, employers, faculty and students participate in a process used to develop educational objectives for the undergraduate programs in Electrical Engineering and Computer Engineering. Within a few years of graduation, program graduates completing the baccalaureate degree in Electrical or Computer Engineering will: <ul style="list-style-type: none"> • Be recognized by their peers as fundamentally sound in the application of mathematics, science, computing, and engineering. • Be engaged in the practice of Electrical or Computer Engineering as innovative problem solvers with a strong work ethic, by identifying and implementing solutions using the proper tools, practical approaches, and flexible thinking. • Be productive and demonstrate leadership in the practice of Electrical or Computer Engineering, both individually and within multidisciplinary teams, using effective oral 	Alumni, employers, faculty and students participate in a process used to develop educational objectives for the undergraduate programs in Electrical Engineering and Computer Engineering. Within a few years of graduation, program graduates completing the baccalaureate degree in Electrical or Computer Engineering will: <ul style="list-style-type: none"> • Be recognized by their peers as fundamentally sound in the application of mathematics, science, computing, and engineering. • Be engaged in the practice of Electrical or Computer Engineering as innovative problem solvers with a strong work ethic, by identifying and implementing solutions using the proper tools, practical approaches, and flexible thinking. • Be productive and demonstrate leadership in the practice of Electrical or Computer Engineering, both individually and within multidisciplinary teams, using effective oral

and written communication skills when working with peers, supervisors, and the public.

- Be responsible in the practice of Electrical or Computer Engineering, relying on sound engineering ethics, a commitment to lifelong learning and a genuine concern for society and the environment.

The electrical engineer is a principal contributor to the modern technological age in which we live today. Following in the footsteps of inventors such as Thomas Edison and Alexander Graham Bell, the electrical engineer is developing technology that improves the quality of life. Developments in microelectronics, telecommunications, and power systems have had a profound effect on each of us. Electrical engineers have affected all segments of our society such as transportation, medicine, and the entertainment industry, to name only a few. Indeed, the electrical engineer has principally been responsible for the advent of the computer age in which we live today as well as the computer's miniaturization and rapid expansion in computational power.

The curriculum in electrical engineering has a foundation based on the principles of the electrical and physical sciences and uses mathematics as a common language to facilitate the solution of engineering problems. The core curriculum consists of a sequence of courses in digital devices, circuits and electronics, electromagnetic field theory, and modern energy conversion. In the senior year, students have the opportunity to take additional course work in one or more technical areas that include: telecommunications, electromagnetics, power systems, high voltage, feedback control systems, microelectronics, signal processing, and computer systems. Supporting course work outside electrical engineering consists of a strong background in mathematics, physical sciences, computer programming, social sciences, fine arts, humanities, and personal communication skills. Computers are used extensively throughout the curriculum, and students are expected to become proficient in higher-order programming languages and several application software tools. Although the concept of design is stressed throughout the program so as to emphasize the problem-solving skills of the engineer, the senior year includes a capstone design experience where much of the previous study is culminated. Through this two-semester design course sequence, students are required to integrate design and analytical problem-solving skills together with communication skills in a team environment. Students expecting to graduate from Mississippi State University with a bachelor of science degree in electrical engineering, in addition to satisfactorily completing the EE curriculum requirements, must meet the following minimum GPA requirements for graduation:

and written communication skills when working with peers, supervisors, and the public.

- Be responsible in the practice of Electrical or Computer Engineering, relying on sound engineering ethics, a commitment to lifelong learning and a genuine concern for society and the environment.

The electrical engineer is a principal contributor to the modern technological age in which we live today. Following in the footsteps of inventors such as Thomas Edison and Alexander Graham Bell, the electrical engineer is developing technology that improves the quality of life. Developments in microelectronics, telecommunications, and power systems have had a profound effect on each of us. Electrical engineers have affected all segments of our society such as transportation, medicine, and the entertainment industry, to name only a few. Indeed, the electrical engineer has principally been responsible for the advent of the computer age in which we live today as well as the computer's miniaturization and rapid expansion in computational power.

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<ul style="list-style-type: none"> • make an overall C average on all hours scheduled and rescheduled at all institutions attended, including MSU (2.00 or better cumulative GPA) • make a C average on all hours scheduled and rescheduled at MSU (2.00 or better MSU GPA) • <i>earn at least a 2.5/4.0 average on all hours with ECE or CSE course prefixes scheduled and rescheduled at all institutions attended, including MSU</i> <p>The electrical engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.</p>		<ul style="list-style-type: none"> • make an overall C average on all hours scheduled and rescheduled at all institutions attended, including MSU (2.00 or better cumulative GPA) • make a C average on all hours scheduled and rescheduled at MSU (2.00 or better MSU GPA) • earn at least a 2.00 cumulative grade point average on all courses scheduled and rescheduled (average on all attempts) at MSU that are applied toward meeting degree requirements • earn at least a 2.5/4.0 average on all hours with ECE or CSE course prefixes at all institutions attended, including MSU, that are applied toward meeting degree requirements <p>The electrical engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.</p>	
"[Click here and type old concentration description]"		The electrical engineering concentration allows students the flexibility to take a broad range of course in a minimum of two topic areas. Students may take a variety of courses that fit their individual interests in electrical engineering.	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6	EN 1103 English Comp I or EN 1104 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6
Fine Arts: see General Education courses	3	Fine Arts: see General Education courses	3
Natural Sciences see Major Core		Natural Sciences see Major Core	
Math see Major Core		Math see Major Core	
Humanities see General Education courses	6	Humanities see General Education courses	6
Social/Behavioral Sciences see General Education courses	6	Social/Behavioral Sciences see General Education courses	6
Major Core Courses Math and Basic Science (31h) MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2743 Calculus IV MA 3113 Introduction to Linear Algebra	 3 3 3 3 3	Major Core Courses Math and Basic Science (31h) MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2743 Calculus IV MA 3113 Introduction to Linear Algebra	 3 3 3 3 3

MA 3253 Differential Equations I	3	MA 3253 Differential Equations I	3
IE 4613 Engineering Statistics I	3	IE 4613 Engineering Statistics I	3
CH 1213 Chemistry I	3	CH 1213 Chemistry I	3
CH 1211 Investigations in Chemistry I	1	CH 1211 Investigations in Chemistry I	1
PH 2213 Physics I	3	PH 2213 Physics I	3
PH 2223 Physics II	3	PH 2223 Physics II	3
<i>Engineering Topics (70h)</i>		Engineering Topics (61h)	
CSE 1284 Introduction to Computer Programming	4	CSE 1284 Introduction to Computer Programming	4
CSE 1384 Intermediate Computer Programming	4	CSE 1384 Intermediate Computer Programming	4
CSE 2383 Data Structures and Analysis of Algorithms	3	CSE 2383 Data Structures and Analysis of Algorithms	3
ECE 1013 Introduction to ECE Design I	3	ECE 1013 Introduction to ECE Design I	3
ECE 1022 Introduction to ECE Design II	2	ECE 1022 Introduction to ECE Design II	2
<i>ECE 3213 Introduction to Solid State Electronics</i>	3	ECE 3423 Circuits I	3
<i>ECE 3413 Introduction to Electronic Circuits</i>	3	ECE 3421 Circuits I Lab	1
<i>ECE 3424 Intermediate Electronic Circuits</i>	4	ECE 3433 Circuits II	3
<i>ECE 3434 Advanced Electronic Circuits</i>	4	ECE 3244 Electronics I	4
ECE 3443 Signals and Systems	3	ECE 3443 Signals and Systems	3
ECE 3313 Electromagnetics I	3	ECE 3313 Electromagnetics I	3
ECE 3323 Electromagnetics II	3	ECE 3323 Electromagnetics II	3
ECE 3614 Fundamentals of Energy Systems	4	ECE 3614 Fundamentals of Energy Systems	4
ECE 4512 EE Design I	2	ECE 4512 EE Design I	2
ECE 4522 EE Design II	2	ECE 4522 EE Design II	2
ECE 3714 Digital Devices and Logic Design	4	ECE 3714 Digital Devices and Logic Design	4
ECE 3724 Microprocessors	4	ECE 3724 Microprocessors	4
EM 2413 Engineering Mechanics I or ME	3	EM 2413 Engineering Mechanics I or ME	3
3513 Thermodynamics I		3513 Thermodynamics I	
<i>EE technical electives (9h)</i>	9	Engineering Science elective (3h)	3
Engineering Science elective (3h)	3	Professional Enrichment elective (3h)	3
Professional Enrichment elective (3h)	3		
Oral Communication Requirement Fulfilled in ECE 1013, ECE 1022, ECE 4512, ECE 4522, and GE 3513		Oral Communication Requirement Fulfilled in ECE 1013, ECE 1022, ECE 4512, ECE 4522, and GE 3513	
Writing Requirement GE 3513 Technical Writing		Writing Requirement GE 3513 Technical Writing	3
Computer Literacy Fulfilled in Engineering Topics courses	3	Computer Literacy Fulfilled in Engineering Topics courses	
Concentration Courses		Concentration Courses	
		EE technical electives (see advisor for list of approved elective courses)	12

Total Hours	128	Total Hours	128
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CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science in Electrical Engineering Major: Electrical Engineering Concentration: N/A	Degree: Bachelor of Science in Electrical Engineering Major: Electrical Engineering Concentration: Power and Energy Engineering
<p>Alumni, employers, faculty and students participate in a process used to develop educational objectives for the undergraduate programs in Electrical Engineering and Computer Engineering. Within a few years of graduation, program graduates completing the baccalaureate degree in Electrical or Computer Engineering will:</p> <ul style="list-style-type: none"> • Be recognized by their peers as fundamentally sound in the application of mathematics, science, computing, and engineering. • Be engaged in the practice of Electrical or Computer Engineering as innovative problem solvers with a strong work ethic, by identifying and implementing solutions using the proper tools, practical approaches, and flexible thinking. • Be productive and demonstrate leadership in the practice of Electrical or Computer Engineering, both individually and within multidisciplinary teams, using effective oral and written communication skills when working with peers, supervisors, and the public. • Be responsible in the practice of Electrical or Computer Engineering, relying on sound engineering ethics, a commitment to lifelong learning and a genuine concern for society and the environment. <p>The electrical engineer is a principal contributor to the modern technological age in which we live today. Following in the footsteps of inventors such as Thomas Edison and Alexander Graham Bell, the electrical engineer is developing technology that improves the quality of life. Developments in microelectronics, telecommunications, and power systems have had a profound effect on each of us. Electrical engineers have affected all segments of our society such as transportation, medicine, and the entertainment industry, to name only a few. Indeed, the electrical engineer has principally been responsible for the advent of the computer age in which we live today as well as the computer's miniaturization and rapid expansion in computational power.</p> <p>The curriculum in electrical engineering has a foundation based on the principles of the electrical and physical sciences and uses mathematics as a common</p>	<p>Alumni, employers, faculty and students participate in a process used to develop educational objectives for the undergraduate programs in Electrical Engineering and Computer Engineering. Within a few years of graduation, program graduates completing the baccalaureate degree in Electrical or Computer Engineering will:</p> <ul style="list-style-type: none"> • Be recognized by their peers as fundamentally sound in the application of mathematics, science, computing, and engineering. • Be engaged in the practice of Electrical or Computer Engineering as innovative problem solvers with a strong work ethic, by identifying and implementing solutions using the proper tools, practical approaches, and flexible thinking. • Be productive and demonstrate leadership in the practice of Electrical or Computer Engineering, both individually and within multidisciplinary teams, using effective oral and written communication skills when working with peers, supervisors, and the public. • Be responsible in the practice of Electrical or Computer Engineering, relying on sound engineering ethics, a commitment to lifelong learning and a genuine concern for society and the environment. <p>The electrical engineer is a principal contributor to the modern technological age in which we live today. Following in the footsteps of inventors such as Thomas Edison and Alexander Graham Bell, the electrical engineer is developing technology that improves the quality of life. Developments in microelectronics, telecommunications, and power systems have had a profound effect on each of us. Electrical engineers have affected all segments of our society such as transportation, medicine, and the entertainment industry, to name only a few. Indeed, the electrical engineer has principally been responsible for the advent of the computer age in which we live today as well as the computer's miniaturization and rapid expansion in computational power.</p> <p>The curriculum in electrical engineering has a foundation based on the principles of the electrical and physical sciences and uses mathematics as a common</p>

language to facilitate the solution of engineering problems. The core curriculum consists of a sequence of courses in digital devices, circuits and electronics, electromagnetic field theory, and modern energy conversion. In the senior year, students have the opportunity to take additional course work in one or more technical areas that include: telecommunications, electromagnetics, power systems, high voltage, feedback control systems, microelectronics, signal processing, and computer systems. Supporting course work outside electrical engineering consists of a strong background in mathematics, physical sciences, computer programming, social sciences, fine arts, humanities, and personal communication skills. Computers are used extensively throughout the curriculum, and students are expected to become proficient in higher-order programming languages and several application software tools. Although the concept of design is stressed throughout the program so as to emphasize the problem-solving skills of the engineer, the senior year includes a capstone design experience where much of the previous study is culminated. Through this two-semester design course sequence, students are required to integrate design and analytical problem-solving skills together with communication skills in a team environment. Students expecting to graduate from Mississippi State University with a bachelor of science degree in electrical engineering, in addition to satisfactorily completing the EE curriculum requirements, must meet the following minimum GPA requirements for graduation:

- make an overall C average on all hours scheduled and rescheduled at all institutions attended, including MSU (2.00 or better cumulative GPA)
- make a C average on all hours scheduled and rescheduled at MSU (2.00 or better MSU GPA)
- *earn at least a 2.5/4.0 average on all hours with ECE or CSE course prefixes scheduled and rescheduled at all institutions attended, including MSU*

The electrical engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

"[Click here and type old concentration description]"

language to facilitate the solution of engineering problems. The core curriculum consists of a sequence of courses in digital devices, circuits and electronics, electromagnetic field theory, and modern energy conversion. In the senior year, students have the opportunity to take additional course work in one or more technical areas that include: telecommunications, electromagnetics, power systems, high voltage, feedback control systems, microelectronics, signal processing, and computer systems. Supporting course work outside electrical engineering consists of a strong background in mathematics, physical sciences, computer programming, social sciences, fine arts, humanities, and personal communication skills. Computers are used extensively throughout the curriculum, and students are expected to become proficient in higher-order programming languages and several application software tools. Although the concept of design is stressed throughout the program so as to emphasize the problem-solving skills of the engineer, the senior year includes a capstone design experience where much of the previous study is culminated. Through this two-semester design course sequence, students are required to integrate design and analytical problem-solving skills together with communication skills in a team environment. Students expecting to graduate from Mississippi State University with a bachelor of science degree in electrical engineering, in addition to satisfactorily completing the EE curriculum requirements, must meet the following minimum GPA requirements for graduation:

- make an overall C average on all hours scheduled and rescheduled at all institutions attended, including MSU (2.00 or better cumulative GPA)
- make a C average on all hours scheduled and rescheduled at MSU (2.00 or better MSU GPA)
- **earn at least a 2.00 cumulative grade point average on all courses scheduled and rescheduled (average on all attempts) at MSU that are applied toward meeting degree requirements**
- **earn at least a 2.5/4.0 average on all hours with ECE or CSE course prefixes at all institutions attended, including MSU, that are applied toward meeting degree requirements**

The electrical engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

CONCENTRATION DESCRIPTION

Power and Energy Engineering Concentration. Engineers employed in the power and energy systems workforce need a fundamental knowledgebase in power distribution and power transmission plus a working knowledge of high voltage, power

		electronics, relays, or insulation. This concentration prepares students for jobs in power and energy industries, especially utilities.	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
EN 1103 English Comp I or EN 1163 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6	EN 1103 English Comp I or EN 1104 Accelerated Comp I EN 1113 English Comp II or EN 1173 Accelerated Comp II	6
Fine Arts: see General Education courses	3	Fine Arts: see General Education courses	3
Natural Sciences see Major Core		Natural Sciences see Major Core	
Math see Major Core		Math see Major Core	
Humanities see General Education courses	6	Humanities see General Education courses	6
Social/Behavioral Sciences see General Education courses	6	Social/Behavioral Sciences see General Education courses	6
Major Core Courses Math and Basic Science (31h) MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2743 Calculus IV MA 3113 Introduction to Linear Algebra MA 3253 Differential Equations I IE 4613 Engineering Statistics I CH 1213 Chemistry I CH 1211 Investigations in Chemistry I PH 2213 Physics I PH 2223 Physics II		Major Core Courses Math and Basic Science (31h) MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2743 Calculus IV MA 3113 Introduction to Linear Algebra MA 3253 Differential Equations I IE 4613 Engineering Statistics I CH 1213 Chemistry I CH 1211 Investigations in Chemistry I PH 2213 Physics I PH 2223 Physics II	
<i>Engineering Topics (70h)</i> CSE 1284 Introduction to Computer Programming CSE 1384 Intermediate Computer Programming CSE 2383 Data Structures and Analysis of Algorithms ECE 1013 Introduction to ECE Design I ECE 1022 Introduction to ECE Design II <i>ECE 3213 Introduction to Solid State Electronics</i> <i>ECE 3413 Introduction to Electronic Circuits</i>		Engineering Topics (61h) CSE 1284 Introduction to Computer Programming CSE 1384 Intermediate Computer Programming CSE 2383 Data Structures and Analysis of Algorithms ECE 1013 Introduction to ECE Design I ECE 1022 Introduction to ECE Design II ECE 3423 Circuits I ECE 3421 Circuits I Lab ECE 3433 Circuits II ECE 3244 Electronics I	

<i>ECE 3424 Intermediate Electronic Circuits</i>	4	ECE 3443 Signals and Systems	3
<i>ECE 3434 Advanced Electronic Circuits</i>	4	ECE 3313 Electromagnetics I	3
ECE 3443 Signals and Systems	3	ECE 3323 Electromagnetics II	3
ECE 3313 Electromagnetics I	3	ECE 3614 Fundamentals of Energy Systems	4
ECE 3323 Electromagnetics II	3	ECE 4512 EE Design I	2
ECE 3614 Fundamentals of Energy Systems	4	ECE 4522 EE Design II	2
ECE 4512 EE Design I	2	ECE 3714 Digital Devices and Logic Design	4
ECE 4522 EE Design II	2	ECE 3724 Microprocessors	4
ECE 3714 Digital Devices and Logic Design	4	EM 2413 Engineering Mechanics I or ME	3
ECE 3724 Microprocessors	4	3513 Thermodynamics I	3
EM 2413 Engineering Mechanics I or ME	3	Engineering Science elective (3h)	3
3513 Thermodynamics I	3	Professional Enrichment elective (3h)	3
<i>EE technical electives (9h)</i>	9	Oral Communication Requirement	
Engineering Science elective (3h)	3	Fulfilled in ECE 1013, ECE 1022, ECE 4512, ECE 4522, and GE 3513	
Professional Enrichment elective (3h)	3	Writing Requirement	
Oral Communication Requirement		GE 3513 Technical Writing	3
Fulfilled in ECE 1013, ECE 1022, ECE 4512, ECE 4522, and GE 3513		Computer Literacy Fulfilled in Engineering Topics courses	
Writing Requirement			
GE 3513 Technical Writing	3		
Computer Literacy Fulfilled in Engineering Topics courses			
Concentration Courses		Concentration Courses	
		Power and Energy Engineering	
		ECE 4613 Power Transmission Systems	3
		ECE 4633 Power Distribution Systems	3
		Power and Energy Electives (6h)	6
		Choose from:	
		ECE 4643 Power Systems Relaying & Control	
		ECE 4653 Power Electronics	
		ECE 4663 Insulation Coordination in Electric Power Systems	
		ECE 4673 Fundamentals of High Voltage Engineering	
		(see advisor for list of additional approved elective courses)	
Total Hours	128	Total Hours	128

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

This modification is being made in order to provide a more flexible curriculum for students in our department. These changes are supported by a longitudinal analysis of departmental student exit surveys and interviews, updates to the ABET accreditation criteria following our accreditation visit in Fall 2017, and a comparison of MSU's EE degree program with other EE programs nationwide. These changes enable some EE students to choose an area of concentration and complete a series of courses to build depth of knowledge within that concentration. The proposed changes in this modification form will, in the future, enable us to propose additional concentrations within electrical engineering so that students' concentrations are noted on their transcript. This modification will add an initial concentration in Power and Energy with subsequent concentrations forthcoming.

Additionally, we will shift from a three-course sequence of combined circuits/electronics topics to two two-course sequences. The degree program will require the same number of credit hours (11 credit hours) within these new sequences, but the new format will allow us to reorganize topics to be consistent with current textbooks and allow us to connect the lab experience with the first circuits course rather than the second. Further, additional flexibility added by these changes will result in the removal of a five-course sequence that will allow transfer students to complete their degree in a more-timely manner.

In sum, these changes are very positive for our students.

1. **EE Degree Program GPA Updates:** A degree program change initiated on Feb 1, 2018 and discussed at the March 23, 2018 UCCC meeting modified the EE degree program GPA requirements. Prior to the change, EE had four requirements: Cumulative GPA, MSU GPA, MSU Degree Program GPA, and Engineering Topics GPA.
 - The change removed the **MSU Degree Program GPA** requirement, which we have since learned is required by EOP 21. The MSU Degree Program GPA must be included in the list of GPA requirements to clearly state all GPA requirements and avoid student confusion. This degree modification will correct that omission.
 - The change modified the **Engineering Topics GPA** requirement by increasing the GPA requirement from a 2.0 to a 2.5. However, the faculty intent was to simultaneously strike "scheduled and rescheduled" from the requirement. During advising and graduation audits, we realized the original degree modification did not strike that language. After a review of historical meeting minutes, the ECE Undergraduate Committee reviewed this concern and reaffirmed the original intent of the GPA modification. The ECE faculty voted to reaffirm the recommendation to strike the "scheduled and rescheduled" in the Engineering Topics GPA requirements and to specify that the 2.5 GPA requirement threshold apply only to ECE and CSE courses used in a student's final program of study. The change is "earn at least a 2.5/4.0 average on all hours with ECE or CSE course prefixes ~~scheduled and rescheduled~~ at all institutions attended, including MSU, that are applied toward meeting degree requirements." This modification is to ensure the 2.5 Engineering Topics GPA requirement is consistent with the original intention of the ECE faculty. If applied to all courses scheduled and rescheduled, the faculty view a threshold of 2.5 as excessive.

2. **Remove ECE 3213 Solid State course from degree program requirements:** The faculty wish to replace ECE 3213 with a technical elective option. By replacing the course with a technical elective option, we are allowing students more flexibility to choose an upper-level ECE course that is more relevant to their individual career plans. ECE 3213 is not part of our ABET EE degree program accreditation requirements.
3. **Update Circuits/Electronics Sequence:** The key motivations for revising and updating the Circuits and Electronics course sequence is to better prepare students to effectively solve circuits and electronics problems. The benefits of moving to two separate sequences are numerous. A few benefits include:
 - The merged circuits and electronics courses often cause confusion. Though circuits and electronics are closely-related topics, they are not the same. Students have trouble separating the two concepts. Moreover, most universities teach the topics separately, and it is hard for students to transfer credit to MSU that provides credit for our current sequence.
 - Though we are updating the sequence, we will continue to teach ECE 3413 Introduction to Electronic Circuits. ECE 3413 is required by other engineering majors but will no longer be required for ECE students. This returns us to our historical practices of offering a circuits/electronics course dedicated to non-majors. This allows us to offer a more effective curriculum for ECE and non-ECE students because course topics can be fine-tuned and offered at more appropriate levels for ECE and non-ECE students.
 - This update will allow us to shift a lab experience to the initial circuits course for ECE students. Currently, students are struggling in our circuits sequence. The ECE faculty think a hands-on lab experience in the first course will allow students to better grasp the material. Since circuits and electronics build on the fundamental concepts taught in the initial circuits course, it is critical for students to thoroughly understand the topics.
 - This reorganization and update will allow us to use the second circuits course a bridge for our signals and systems courses. We have identified signals and systems as a trouble area for student success. The signals and systems course covers numerous, complex topics. We are evaluating ways to reorganize that course, but for now, a first step is to provide some exposure to topics in earlier, related courses. This reorganization provides the opportunity to do that.
 - This reorganization will remove a five-course prerequisite chain that is currently in the program due to the three-course combined circuits/electronics sequence (ECE 3413 – ECE 3424 – ECE 3434) which is followed by a two-course senior design sequence (ECE 4512 – ECE 4522). Now transfer students will be able to enroll in senior design by their third semester and can finish their degree in four semesters instead of five semesters. This change will allow the current five-semester EE program on the Coast campus to transition to a four-semester program similar to other Coast campus programs.

To provide clarity for circuits/electronics change. The below summaries are provided.

Current required courses impacted by this change (11 credit hours for EE and CPE):

- ECE 3413 – currently required for EE, CPE, AE, IE, and ME. Will continue offering and in the future work with AE, IE, and ME faculty to revise topics, if needed, for their students.
- ECE 3424 – currently required for EE and CPE; will phase out

- ECE 3434 – currently required for EE and CPE; will phase out
- Several courses will need prerequisite updates after new sequence is approved; these will be processed as technical changes when new courses are approved.

New required courses proposed (11 credit hours for EE and CPE):

- ECE 3423 Circuits I – required for EE and CPE. Equivalent to ECE 3413 but requires co-registration in lab.
- ECE 3421 Circuits I Lab – new standalone lab for introductory circuits topics. (Students who take ECE 3413 can take this lab to continue in ECE circuits and electronics courses.)
- ECE 3433 Circuits II – required for EE and CPE. New course to bridge circuits and signals and systems. Additional applications for circuits topics.
- ECE 3244 Electronics I – required for EE and CPE. Equivalent to ECE 3424

New elective courses proposed:

- ECE 3253 Electronics II (elective) – advanced electronics topics from current ECE 3434; can be taken as a technical elective.

4. **Add “Power and Energy Engineering” concentration:** This modification is being made in order to create the first concentration in electrical engineering. In the future, we plan to propose additional concentrations within electrical engineering. The vision is that ECE students will be able to choose an area of concentration and then choose a series of courses to build depth of knowledge within that concentration. The benefits of formal concentration areas are related to transcript endorsement, tracking of students, and improved advising practices. For this proposed Power and Energy Engineering Concentration, all seven faculty within the Power and Energy Emphasis Area in ECE unanimously stated that they are already offering this concentration without it being acknowledged. They regularly offer the courses that form the proposed concentration and students regularly complete them. We can begin to offer this concentration immediately without any additional effort or reorganization.

As a result of this degree program modification, there are no changes to the student learning outcomes.

The EE student learning outcomes are as follows:

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

7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

- Will this program change meet local, state, regional, and national educational and cultural needs? **Yes**
- Will this program change result in duplication in the System? **No**
- Will this program change/advance student diversity within the discipline? **Yes**, the added flexibility through technical electives will enable students to take courses in a variety of areas both inside and outside of ECE. We anticipate this will be viewed favorably by all students, but particularly for women who often struggle to connect electrical engineering to societal impact. Interdisciplinary engineering projects and courses can help address societal impact. The ability to enroll in interdisciplinary courses that will count towards their degree program through the flexibility of technical electives should aid departmental efforts to advance diversity. For more information on department diversity efforts see: www.ece.msstate.edu/bp-ece-plan/
- Will this program change result in an increase in the potential placement of graduates in MS, the Southeast, and the U.S.? **Yes**, the visibility of the Power and Energy Engineering concentration via transcript endorsement should improve potential placement within power and energy industries.
- Will this program change result in an increase in the potential salaries of graduates in MS, the Southeast, and the U.S.? **No**

4. SUPPORT

See the attached letter from the ECE Undergraduate Committee. All the changes in this degree program were discussed multiple times throughout the 2020-2021 academic year. All these changes were recommended by the ECE Undergraduate Committee by unanimous vote in their March 22, 2021 meeting and approved by a vote of the ECE faculty on March 26, 2021.

5. PROPOSED 4-LETTER ABBREVIATION

No changes

6. EFFECTIVE DATE

Fall 2022



March 26, 2021

TO: James W. Bagley College of Engineering Committee on Courses and Curricula & Mississippi State University University Committee on Courses and Curricula

FROM: Undergraduate Program Committee, Department of Electrical & Computer Engineering

RE: EE and CPE Degree Program Modifications

The CPE and EE degree program modifications submitted herein, including accompanying course revisions, were unanimously recommended by the ECE Undergraduate Committee on 3/22/2021 and approved by final vote of the ECE faculty on 3/26/2021.

Dr John Ball

Digitally signed by Dr. John Ball
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 ou=ECE,
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 Date: 2021.03.23 10:51:35 -05'00'

John Ball
 ECE Undergraduate Committee Chair

J. Patrick Donohoe

Digitally signed by J. Patrick Donohoe
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 Electrical and Computer Engineering,
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Pat Donohoe
 Professor and Paul B. Jacob Chair

Ryan B Green

Ryan Green
 Assistant Professor

Umar Iqbal

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 University, ou=Electrical & Computer
 Engineering,
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Umar Iqbal
 Assistant Clinical Professor

Khalid Miah

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Khalid Miah
 Assistant Clinical Professor

Jean Mohammadi-Aragh

Jean Mohammadi-Aragh
 ECE Undergraduate Committee Vice-Chair

Randy Follett

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Randy Follett
 Associate Professor

Ali Cafer Gurbuz

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Ali Gurbuz
 Assistant Professor

Masoud Karimi

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Masoud Karimi-Ghartemani
 Associate Professor

Jane N Moorhead

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 Moorhead
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Jane Moorhead
 Instructor