

A MEMORANDUM

DATE April 28, 2020
TO: UCCC Members
FROM: Dr. Dana Pomykal Franz, Chair
SUBJECT: May 1, 2020 Meeting

The agenda and proposals for the meeting on **Friday, May 1, 2020 beginning at 9:00 a.m.** are enclosed. The meeting will be held by WebEx. Please contact the UCCC Office if you are unable to participate.

The minutes from the April 23, 2020 UCCC meeting and the link for WebEx will be sent to you in a separate email.

Thank you.

Enclosures: Course/Curriculum Proposals

AGENDA
UNIVERSITY COMMITTEE ON COURSES AND CURRICULA
May 1, 2020

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

AGRICULTURE AND LIFE SCIENCES

Addition +Online/Distance	BCH 2023	Molecular Mechanisms of Human Diseases (Tabled at April 23 rd UCCC meeting)
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ARTS & SCIENCES

Modification +Online/Distance	EN 2243	American Literature Before 1865 (Already part of General Education curriculum)
+Online/Distance	EN 2253	American Literature After 1865 (Already part of General Education curriculum)
Modification +Online/Distance	PPA 8133	City and County Government (Tabled at April 23 rd UCCC meeting)

EDUCATION

Modification +Online/Distance	KI 2603	Medical Terminology (Tabled at April 23 rd UCCC meeting)
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ENGINEERING

Modification	CSE 3763	Ethical and Legal Issues in Computing
Modification +Online/Distance	IE 4533/6533	Project Management
Modification	IE 4753/6753	Systems Engineering and Analysis
Modification	IE 4773/6773	Systems Simulation I

FOREST RESOURCES

Modification +Online/Distance	SBP 6113 (split level with SBP 4113)	Adhesives and Composites (Tabled at April 23 rd UCCC meeting)
Modification +Online/Distance	SBP 6133 (split level with SBP 4133)	Biorefinery Processes
Modification +Online/Distance	SBP 6253 (split level with SBP 4253)	Quantitative Methods in Sustainable Bioproducts
Addition +Online/Distance	SBP 8143	Standards for Testing Sustainable Materials

4. Degree proposals by college/school

EDUCATION

Modification	BS	Secondary Education
Modification	MAT-S	Secondary Education

ENGINEERING

Modification	BS	Aerospace
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APPROVAL FORM FOR
DEGREE PROGRAMS
MISSISSIPPI STATE UNIVERSITY

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

College: Education

Department: Curriculum, Instruction & Sp Ed.

Contact Person: Dana Franz

Mail Stop: 9705 E-mail: df76@msstate.edu

Nature of Change: Modification
2020

Date Initiated: 10/02/19 Effective Date: Fall

Current Degree Program Name: Bachelor's of Science

Major: Secondary Education

Concentration: Mathematics, Biology, Physics, Chemistry,
English, Social Studies

New Degree Program Name: NA

Major: NA

Concentration: NA

Summary of Proposed Changes:

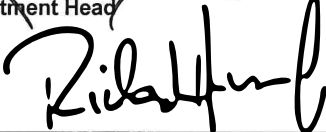
1. Delete EDS 3411 Secondary Education Practicum, EPY 3253 Evaluating Learning, and EDF 4243 Planning for the Diversity of Learners.
2. Add EDS 3413 Principles of Secondary Education and EDS 4403/6403 Evaluation of Learning in Secondary Schools

Approved:

Date:


Department Head

3/5/2020


Chair, College or School Curriculum Committee

April 25, 2020

Dean of College or School

04/27/2020

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

Catalog Description: The purpose of the Secondary Education major is to prepare students to teach the academic subjects in grades 7-12 by providing professional courses and experiences for those desiring to teach at the middle and high school levels. The Secondary Education program is designed to lead teacher candidates to 7-12 licensure in English, Mathematics, Biology, Chemistry, Physics, or Social Studies. Degree programs include pedagogy courses that require field experiences in middle and high schools, as well as opportunities to master content area pedagogy. The secondary education degree culminates in a semester-long student teaching internship in a middle or high school classroom.

Curriculum Outline

Secondary Education Modification (SEED)

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Bachelor of Science Major: Secondary Education (SEED)		Degree: Bachelor of Science Major: Secondary Education (SEED)	
The purpose of the Secondary Education major is to prepare students to teach the academic subjects in grades 7-12 by providing professional courses and experiences for those desiring to teach at the middle and high school levels. The Secondary Education program is designed to lead teacher candidates to a 7-12 licensure in English, Mathematics, Biology, Chemistry, Physics, or Social Studies, and to K-12 licensure in the teaching of foreign languages. Degree programs include pedagogy courses that require field experiences in middle and high schools, as well as opportunities to master content area pedagogy. The secondary education degree culminates in a semester-long student teaching internship in a middle or high school classroom.		The purpose of the Secondary Education major is to prepare students to teach the academic subjects in grades 7-12 by providing professional courses and experiences for those desiring to teach at the middle and high school levels. The Secondary Education program is designed to lead teacher candidates to a 7-12 licensure in English, Mathematics, Biology, Chemistry, Physics, or Social Studies, and to K-12 licensure in the teaching of foreign languages. Degree programs include pedagogy courses that require field experiences in middle and high schools, as well as opportunities to master content area pedagogy. The secondary education degree culminates in a semester-long student teaching internship in a middle or high school classroom.	
BIOLOGY CONCENTRATION DESCRIPTION The Biology Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Education Standards for prospective teachers at the secondary level (grades 7-12). Courses designed for nonscience majors will not count toward a degree in any area of science education.		BIOLOGY CONCENTRATION DESCRIPTION The Biology Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Education Standards for prospective teachers at the secondary level (grades 7-12). Courses designed for nonscience majors will not count toward a degree in any area of science education.	
CURRENT CURRICULUM OUTLINE	Req. Hours	PROPOSED CURRICULUM OUTLINE	Req. Hours
English EN 1103 English Composition I or equivalent (C or better)	3 3	English EN 1103 English Composition I or equivalent (C or better)	3 3

EN 1113 English Composition II or equivalent (C or better)		EN 1113 English Composition II or equivalent (C or better)	
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Natural Sciences (see content area):		Natural Sciences (see content area):	
Extra Science (see content area)		Extra Science (see content area)	
Math:		Math:	
MA 1313 College Algebra	3	MA 1313 College Algebra	3
ST 3123 Introduction to Statistical Inference	3	ST 3123 Introduction to Statistical Inference	3
Humanities (General Education):	6	Humanities (General Education):	6
Social/Behavioral Sciences (Gen Ed):	6	Social/Behavioral Sciences (Gen Ed):	6
Major Core Courses		Major Core Courses	
EPY 3143 Human Dev& Learning	3	EPY 3143 Human Dev& Learning	3
EDX 3213 Exceptional Child/Youth	3	EDX 3213 Exceptional Child/Youth	3
EDF 4243 Plan for Diverse Learners	3	RDG 3513 Developing Reading Strategies in Secondary School Content Areas	3
RDG 3513 Developing Reading Strategies in Secondary School Content Area	3	EDF 3333 Social Foundations	3
EDF 3333 Social Foundations	3	EDS 3653 Secondary Science Education	3
EDS 3411 Practicum in Secondary Ed.	1	EDS 4653 Methods of Teaching Science	3
EDS 3653 Secondary Science Education	3	EDS 4873 Seminar in Managing the Secondary Classroom	3
EDS 4653 Methods of Teaching Science	3	EDS 4886 Teaching Intern in Sec. Ed.	6
EDS 4873 Seminar in Managing the Secondary Classroom	3	EDS 4896 Teaching Intern in Sec. Ed.	6
EDS 4886 Teaching Intern in Sec. Ed.	6	EDS 3413 Principles of Secondary Education	3
EDS 4896 Teaching Intern in Sec. Ed.	3	EDS 4403/6403 Evaluation of Learning in Secondary Schools	3
EPY 3253 Evaluating Learning			
Concentration Courses		Concentration Courses	
Choose 57 hours of approved coursework within concentration area. Must include the required subject area core.		Choose 57 hours of approved coursework within concentration area. Must include the required subject area core.	
Required Subject area core		Required Subject area core	
BIO 1134 Biology I		BIO 1134 Biology I	
BIO 1144 Biology II		BIO 1144 Biology II	
BIO 3104 Ecology		BIO 3104 Ecology	
BIO 2103 Cell Biology		BIO 2103 Cell Biology	
BIO 3304 General Microbiology		BIO 3304 General Microbiology	
BIO 3103 Genetics		BIO 3103 Genetics	
BIO 4113 Evolutionary Biology		BIO 4113 Evolutionary Biology	
CH 1213 Chemistry I		CH 1213 Chemistry I	
	32		32

CH 1211 Chemistry I Lab BCH 4013 Principles of Biochemistry		BCH 4013 Principles of Biochemistry	
Electives approved by advisor that result in a double major or an additional area of licensure.	25	Electives approved by advisor that result in a double major or an additional area of licensure.	25
Oral Communication Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners		Oral Communication Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners	
Computer Literacy Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners		Computer Literacy Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners	
Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education		Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education	
Total Hours	124	Total Hours	124
CHEMISTRY CONCENTRATION DESCRIPTION The Chemistry Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Education Standards for prospective teachers at the secondary level (grades 7-12). Courses designed for nonscience majors will not count toward a degree in any area of science education.		CHEMISTRY CONCENTRATION DESCRIPTION The Chemistry Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Education Standards for prospective teachers at the secondary level (grades 7-12). Courses designed for nonscience majors will not count toward a degree in any area of science education.	
CURRENT CURRICULUM OUTLINE	Req. Hours	PROPOSED CURRICULUM OUTLINE	Req. Hours
English EN 1103 English Composition I or equivalent (C or better)	3	English EN 1103 English Composition I or equivalent (C or better)	3
EN 1113 English Composition II or equivalent (C or better)	3	EN 1113 English Composition II or equivalent (C or better)	3
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Natural Sciences (see content area):		Natural Sciences (see content area):	
Extra Science (see content area)		Extra Science (see content area)	
Math: MA 1713 Calculus I	3	Math: MA 1713 Calculus I	3
ST 3123 Introduction to Statistical Inference	3	ST 3123 Introduction to Statistical Inference	3

Humanities (General Education):	6	Humanities (General Education):	6
Social/Behavioral Sciences (Gen Ed):	6	Social/Behavioral Sciences (Gen Ed):	6
Major Core Courses		Major Core Courses	
EPY 3143 Human Dev& Learning	3	EPY 3143 Human Dev& Learning	3
EDX 3213 Exceptional Child/Youth	3	EDX 3213 Exceptional Child/Youth	3
EDF 4243 Plan for Diverse Learners	3	RDG 3513 Developing Reading Strategies in Secondary School Content Areas	3
RDG 3513 Developing Reading Strategies in Secondary School Content Areas	3	EDF 3333 Social Foundations	3
EDF 3333 Social Foundations	3	EDS 3653 Secondary Science Education	3
EDS 3411 Practicum in Secondary Ed.	3	EDS 4653 Methods of Teaching Science	3
EDS 3653 Secondary Science Education	3	EDS 4873 Seminar in Managing the Secondary Classroom	3
EDS 4653 Methods of Teaching Science	6	EDS 4886 Teaching Intern in Sec. Ed.	6
EDS 4873 Seminar in Managing the Secondary Classroom	6	EDS 4896 Teaching Intern in Sec. Ed.	6
EDS 4886 Teaching Intern in Sec. Ed.	3	EDS 3413 Principles of Secondary Education	3
EDS 4896 Teaching Intern in Sec. Ed.		EDS 4403/6403 Evaluation of Learning In Secondary Schools	3
EPY 3253 Evaluating Learning			
Concentration Courses		Concentration Courses	
Choose 57 hours of approved coursework within concentration area. Must include the required subject area core.		Choose 57 hours of approved coursework within concentration area. Must include the required subject area core.	
Required Subject area core		Required Subject area core	
CH 1213 Chemistry I		CH 1213 Chemistry I	
CH 1211 Investigations in Chemistry II	26	CH 1211 Investigations in Chemistry II	26
CH 1223 Chemistry II		CH 1223 Chemistry II	
CH 1221 Investigations in Chemistry II		CH 1221 Investigations in Chemistry II	
CH 2311 Analytical Chemistry I Laboratory		CH 2311 Analytical Chemistry I Laboratory	
CH 2313 Analytical Chemistry I		CH 2313 Analytical Chemistry I	
CH 3213 Inorganic Chemistry <u>or</u> Ch 4213 Advanced Inorganic Chemistry I		CH 3213 Inorganic Chemistry <u>or</u> Ch 4213 Advanced Inorganic Chemistry I	
CH 4511 Organic Chemistry Laboratory I		CH 4511 Organic Chemistry Laboratory I	
CH 4513 Organic Chemistry I	31	CH 4513 Organic Chemistry I	
CH 4523 Organic Chemistry II		CH 4523 Organic Chemistry II	
CH 4521 Organic Chemistry Laboratory II		CH 4521 Organic Chemistry Laboratory II	
BCH 4013 Principles of Biochemistry		BCH 4013 Principles of Biochemistry	
		Electives approved by advisor that result in a double major or an additional area of licensure.	31

Electives approved by advisor that result in a double major or an additional area of licensure.			
Oral Communication Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners		Oral Communication Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners	
Computer Literacy Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners		Computer Literacy Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners	
Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education		Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education	
Total Hours	124	Total Hours	124
ENGLISH CONCENTRATION DESCRIPTION The English Education Curriculum is designed in accordance with the recommendations and to meet the standards of the National Council of Teachers of English for prospective teachers at the secondary level (grades 7-12).		ENGLISH CONCENTRATION DESCRIPTION The English Education Curriculum is designed in accordance with the recommendations and to meet the standards of the National Council of Teachers of English for prospective teachers at the secondary level (grades 7-12).	
CURRENT CURRICULUM OUTLINE	Req. Hours	PROPOSED CURRICULUM OUTLINE	Req. Hours
English		English	
EN 1103 English Composition I or equivalent (C or better)	3	EN 1103 English Composition I or equivalent (C or better)	3
EN 1113 English Composition II or equivalent (C or better)	3	EN 1113 English Composition II or equivalent (C or better)	3
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Natural Sciences:		Natural Sciences:	
Physical Science with lab	3	Physical Science with lab	3
Biological Science with lab	3	Biological Science with lab	3
Extra Science or Math		Extra Science or Math	
Approved Science of Math	3	Approved Science of Math	3
Math:		Math:	
MA 1313 College Algebra or higher	3	MA 1313 College Algebra or higher	3
Any Math above MA 1313	3	Any Math above MA 1313	3
Humanities (General Education):		Humanities (General Education):	
HI 1063 Early U.S. History	3	HI 1063 Early U.S. History	3
HI 1073 Modern U.S. History	3	HI 1073 Modern U.S. History	3
Social/Behavioral Sciences (Gen Ed):	6	Social/Behavioral Sciences (Gen Ed):	6

<u>Major Core Courses</u> EPY 3143 Human Dev& Learning 3 EDX 3213 Exceptional Child/Youth 3 RDG 3513 Developing Reading Strategies in Secondary School Content Areas 3 EDF 3333 Social Foundations 1 EDS 3411 Practicum in Secondary Ed. 3 EDF 4243 Plan for Diverse Learners 3 EDS 3673 Sec. Language Arts Education 3 EDS 4673 Methods of Teaching Language Arts Education 6 EDS 4873 Seminar in Managing the Secondary Classroom 6 EDS 4886 Teaching Intern in Sec. Ed. 3 EDS 4896 Teaching Intern in Sec. Ed. 3 EPY 3253 Evaluating Learning 3		<u>Major Core Courses</u> EPY 3143 Human Dev& Learning 3 EDX 3213 Exceptional Child/Youth 3 RDG 3513 Developing Reading Strategies in Secondary School Content Areas 3 EDF 3333 Social Foundations 3 EDS 3673 Secondary Language Arts Education 3 EDS 4673 Methods of Teaching Language Arts Education 3 EDS 4873 Seminar in Managing the Secondary Classroom 6 EDS 4886 Teaching Intern in Sec. Ed. 6 EDS 4896 Teaching Intern in Sec. Ed. 3 EDE 3343 Teaching Adolescent Literature 3 EDS 3413 Principles of Secondary Education 3 EDS 4403/6403 Evaluation of Learning in Secondary Schools	
<u>Content Area</u> EN 2243 American Lit Before 1865 3 EN 2253 American Lit After 1865 3 EN 2213 English Lit Before 1800 3 EN 2223 English Lit After 1800 3 EN 2273 World Lit Before 1600 3 <u>or</u> EN 2283 World Lit after 1600 EN 2434 Literature and Film 3-4 <u>or</u> EN 3523 Shakespeare and Film EN 3414 Critical Writing and Research in Literacy Studies 4 EN 3423 Descriptive English Grammar 3 EN 4503 3 <u>or</u> EN 4513 Shakespeare 3 EN 4413 History of the English Language <u>or</u> EN 4403 Introduction to Linguistics 3 <u>or</u> EN 4633 Language and Society EN 4323 Literacy Criticism from Plato-Present 3 <u>or</u> EN 4353 Critical Theory Since 1900 3 EN 3000/4000 Elective 3 EN 3000/4000 Elective 3 EN 3000/4000 Elective 3		<u>Content Area</u> EN 2243 American Lit Before 1865 3 EN 2253 American Lit After 1865 3 EN 2213 English Lit Before 1800 3 EN 2223 English Lit After 1800 3 EN 2273 World Lit Before 1600 3 <u>or</u> EN 2283 World Lit after 1600 EN 2434 Literature and Film 3-4 <u>or</u> EN 3523 Shakespeare and Film EN 3414 Critical Writing and Research in Literacy Studies 4 EN 3423 Descriptive English Grammar 3 EN 4503 3 <u>or</u> EN 4513 Shakespeare 3 EN 4413 History of the English Language <u>or</u> EN 4403 Introduction to Linguistics 3 <u>or</u> EN 4633 Language and Society EN 4323 Literacy Criticism from Plato-Present 3 <u>or</u> EN 4353 Critical Theory Since 1900 EN 3000/4000 Elective 3 EN 3000/4000 Elective 3 EN 3000/4000 Elective 3	

Oral Communication Requirement Satisfied by the successful completion of EDS 3673		Oral Communication Requirement Satisfied by the successful completion of EDS 3673	
Computer Literacy Requirement Satisfied by the successful completion of EDS 4673 and EDF 4243		Computer Literacy Requirement Satisfied by the successful completion of EDS 4673 and EDF 4243	
Writing Requirement Satisfied by successful completion of EN 3414		Writing Requirement Satisfied by successful completion of EN 3414	
Total Hours	122- 123	Total Hours	121- 122
CONCENTRATION DESCRIPTION The Mathematics Education Curriculum is designed in accordance with the recommendations of the National Council for Teachers of Mathematics for prospective teachers at the secondary level (grades 7-12).		CONCENTRATION DESCRIPTION The Mathematics Education Curriculum is designed in accordance with the recommendations of the National Council for Teachers of Mathematics for prospective teachers at the secondary level (grades 7-12).	
CURRENT CURRICULUM OUTLINE	Req. Hours	PROPOSED CURRICULUM OUTLINE	Req. Hours
English EN 1103 English Composition I or equivalent (C or better)	3	English EN 1103 English Composition I or equivalent (C or better)	3
EN 1113 English Composition II or equivalent (C or better)	3	EN 1113 English Composition II or equivalent (C or better)	3
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Mathematics MA 1713 Calculus I	3	Mathematics MA 1713 Calculus I	3
MA 1723 Calculus II	3	MA 1723 Calculus II	3
Sciences (must include 2 labs) Biological Science w/lab	3	Sciences (must include 2 labs) Biological Science w/lab	3
Physical Science (Calculus based PH 2213 or CH 1213 or higher)	6	Physical Science (Calculus based PH 2213 or CH 1213 or higher)	6
Humanities HI 1063 Early U.S. History	3	Humanities HI 1063 Early U.S. History	3
HI 1073 Modern U.S. History	3	HI 1073 Modern U.S. History	3
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Social/Behavioral Sciences (Gen Ed): PSY 1013 General Psychology	3	Social/Behavioral Sciences (Gen Ed): PSY 1013 General Psychology	3
SO 1003 Introduction to Sociology	3	SO 1003 Introduction to Sociology	3
Additional CORE PS 1113 American Government	3	Additional CORE PS 1113 American Government	3
EN Literature Electives	6	EN Literature Electives	6

<u>Major Core Courses</u> EDF 4243 Plan for Diverse Learners 3 EDF 3333 Social Foundations 3 EDX 3213 Exceptional Child/Youth 3 EPY 3143 Human Dev& Learning 3 EPY 3253 Evaluating Learning 3 RDG 3513 Developing Reading Strategies in Secondary School Content Areas 1 EDS 3411 Practicum in Secondary Ed. 3 EDS 3633 Secondary Mathematics Education 6 EDS 4653 Methods of Teaching Mathematics 6 EDS 4873 Seminar in Managing the EDS 4886 Teaching Intern in Sec. Ed. EDS 4896 Teaching Intern in Sec. Ed.		<u>Major Core Courses</u> EDF 3333 Social Foundations 3 EDX 3213 Exceptional Child/Youth 3 EPY 3143 Human Dev& Learning 3 RDG 3513 Developing Reading Strategies in Secondary School Content Areas 3 EDS 3633 Secondary Mathematics Education 3 EDS 4653 Methods of Teaching Mathematics 6 EDS 4873 Seminar in Managing the EDS 4886 Teaching Intern in Sec. Ed. 3 EDS 4896 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education 3 EDS 4403/6403 Evaluation of Learning in Secondary Schools	
<u>Concentration Courses</u> MA 2733 Calculus III 3 MA 2743 Calculus IV 3 MA 3053 Foundations of Mathematics 3 MA/ST 3123 Intro to Statistical Inferences 3 MA 3113 Introduction to Linear Algebra 3 MA 3163 Introduction to Modern Algebra 3 MA 3253 Differential Equations I 3 MA 3463 Foundations of Geometry 3 MA 3513 History of Mathematics 3 MA 4523 Introduction to Probability 3		<u>Concentration Courses</u> MA 2733 Calculus III 3 MA 2743 Calculus IV 3 MA 3053 Foundations of Mathematics 3 MA/ST 3123 Intro to Statistical Inferences 3 MA 3113 Introduction to Linear Algebra 3 MA 3163 Introduction to Modern Algebra 3 MA 3253 Differential Equations I 3 MA 3463 Foundations of Geometry 3 MA 3513 History of Mathematics 3 MA 4523 Introduction to Probability 3	
Oral Communication Requirement CO 1003 Fundamentals of Public Speaking 3		Oral Communication Requirement CO 1003 Fundamentals of Public Speaking 3	
Computer Literacy Requirement CSE 1233 Computer Programming with C OR_CSE 1273 Computer Programming with Java 3		Computer Literacy Requirement CSE 1233 Computer Programming with C OR_CSE 1273 Computer Programming with Java 3	
Writing Requirement EDF 3413 Writing for Thinking 3		Writing Requirement EDF 3413 Writing for Thinking 3	
Total Hours 124		Total Hours 123	

PHYSICS CONCENTRATION DESCRIPTION The Physics Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Education Standards for prospective teachers at the secondary level (grades 7-12). Courses designed for nonscience majors will not count toward a degree in any area of science education.		PHYSICS CONCENTRATION DESCRIPTION The Physics Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Education Standards for prospective teachers at the secondary level (grades 7-12). Courses designed for nonscience majors will not count toward a degree in any area of science education.	
CURRENT CURRICULUM OUTLINE	Req. Hours	PROPOSED CURRICULUM OUTLINE	Req. Hours
English EN 1103 English Composition I or equivalent (C or better)	3	English EN 1103 English Composition I or equivalent (C or better)	3
EN 1113 English Composition II or equivalent (C or better)	3	EN 1113 English Composition II or equivalent (C or better)	3
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Natural Sciences (see content area):		Natural Sciences (see content area):	
Extra Science (see content area)		Extra Science (see content area)	
Math: MA 1713 Calculus I	3	Math: MA 1713 Calculus I	3
ST 3123 Introduction to Statistical Inference	3	ST 3123 Introduction to Statistical Inference	3
Humanities (General Education):	6	Humanities (General Education):	6
Social/Behavioral Sciences (Gen Ed):	6	Social/Behavioral Sciences (Gen Ed):	6
Major Core Courses EPY 3143 Human Dev& Learning	3	Major Core Courses EPY 3143 Human Dev& Learning	3
EDX 3213 Exceptional Child/Youth	3	EDX 3213 Exceptional Child/Youth	3
EDF 4243 Plan for Diverse Learners	3	RDG 3513 Developing Reading Strategies in Secondary School Content Areas	3
RDG 3513 Developing Reading Strategies in Secondary School Content Areas	3	EDF 3333 Social Foundations	3
Content Areas	1	EDS 3653 Secondary Science Education	3
EDF 3333 Social Foundations	3	EDS 4653 Methods of Teaching Science	3
EDS 3411 Practicum in Secondary Ed.	3	EDS 4873 Seminar in Managing the Secondary Classroom	3
EDS 3653 Secondary Science Education	3	EDS 4886 Teaching Intern in Sec. Ed.	6
EDS 4653 Methods of Teaching Science	6	EDS 4896 Teaching Intern in Sec. Ed.	6
EDS 4873 Seminar in Managing the Secondary Classroom	6	EDS 3413 Principles of Secondary Education	3
EDS 4886 Teaching Intern in Sec. Ed.	3	EDS 4403/6403 Evaluation of Learning in Secondary Schools	3
Ed.			

EDS 4896 Teaching Intern in Sec. Ed. <i>EPY 3253 Evaluating Learning</i>			
<u>Concentration Courses</u> Choose 57 hours of approved coursework within concentration area. Must include the required subject area core. Required Subject area core PH 1063 Descriptive Astronomy PH 2213 Physics I PH 2223 Physics II PH 2233 Physics III PH 4213 Intermediate Mechanics I PH 4143 Intermediate Laboratory CH 1213 Chemistry I CH 1211 Investigations in Chemistry I MA 1723 Calculus II MA 2733 Calculus III	28	<u>Concentration Courses</u> Choose 57 hours of approved coursework within concentration area. Must include the required subject area core. Required Subject area core PH 1063 Descriptive Astronomy PH 2213 Physics I PH 2223 Physics II PH 2233 Physics III PH 4213 Intermediate Mechanics I PH 4143 Intermediate Laboratory CH 1213 Chemistry I CH 1211 Investigations in Chemistry I MA 1723 Calculus II MA 2733 Calculus III	28
Electives approved by advisor that result in a double major or an additional area of licensure.	29	Electives approved by advisor that result in a double major or an additional area of licensure.	29
Oral Communication Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners		Oral Communication Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners	
Computer Literacy Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners		Computer Literacy Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners	
Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education		Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education	
Total Hours	124	Total Hours	124
SOCIAL STUDIES CONCENTRATION DESCRIPTION The Social Studies Education Curriculum is designed in accordance with the recommendations and to meet the standards of the National Council for the Social Studies for prospective teachers at the secondary level (grades 7-12).		SOCIAL STUDIES CONCENTRATION DESCRIPTION The Social Studies Education Curriculum is designed in accordance with the recommendations and to meet the standards of the National Council for the Social Studies for prospective teachers at the secondary level (grades 7-12).	
CURRENT CURRICULUM OUTLINE	Req.	PROPOSED CURRICULUM OUTLINE	Req.

	Hours		Hours
English EN 1103 English Composition I or equivalent (C or better)	3	English EN 1103 English Composition I or equivalent (C or better)	3
EN 1113 English Composition II or equivalent (C or better)	3	EN 1113 English Composition II or equivalent (C or better)	3
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Mathematics MA 1313 College Algebra	3	Mathematics MA 1313 College Algebra	3
Any MA above MA 1313	3	Any MA above MA 1313	3
Natural Sciences (must include 2 labs)	3	Natural Sciences (must include 2 labs)	3
Biological Science with lab	3	Biological Science with lab	3
Physical Science with lab		Physical Science with lab	3
Humanities HI 1063 Early U.S. History	3	Humanities HI 1063 Early U.S. History	3
HI 1073 Modern U.S. History	3	HI 1073 Modern U.S. History	3
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Social/Behavioral Sciences (Gen Ed): PSY 1013 General Psychology	3	Social/Behavioral Sciences (Gen Ed): PSY 1013 General Psychology	3
SO 1003 Introduction to Sociology	3	SO 1003 Introduction to Sociology	3
Science of Math Approved science (no lab required) or Math	3	Science of Math Approved science (no lab required) or Math	3
<u>Major Core Courses</u>		<u>Major Core Courses</u>	
EDF 3333 Social Foundations	3	EDF 3333 Social Foundations	3
EDS 3411 <i>Practicum in Secondary Ed</i>	1 3	EDX 3213 Exceptional Child/Youth	3
EDX 3213 Exceptional Child/Youth	3	EPY 3143 Human Dev& Learning	3
EPY 3143 Human Dev& Learning	3	RDG 3513 Developing Reading Strategies in Secondary School Content Areas	3
EPY 3253 <i>Evaluating Learning</i>		EDS 3643 Secondary Social Studies Education	3
RDG 3513 Developing Reading Strategies in Secondary School Content Areas	3	EDS 4643 Methods of Teaching Social Studies	3 3
EDS 3643 Secondary Social Studies Education	3	EDS 4873 Seminar in Managing the	6
EDS 4643 Methods of Teaching Social Studies	3 3	EDS 4886 Teaching Intern in Sec. Ed.	6
EDS 4873 Seminar in Managing the	6	EDS 4896 Teaching Intern in Sec. Ed.	
EDS 4886 Teaching Intern in Sec. Ed.	6	EDS 3413 Principles of Secondary Education	3
EDS 4896 Teaching Intern in Sec. Ed.		EDS 4403/6403 Evaluation of Learning in Secondary Schools	3

<u>Concentration Courses</u>		<u>Concentration Courses</u>	
EC 2113 Principles of Macroeconomics	3	EC 2113 Principles of Macroeconomics	3
EC 2123 Principles of Microeconomics	3	EC 2123 Principles of Microeconomics	3
GR 1114 Elements of Physical Geography (or approved 3000 or 4000 level GR elective)	3	GR 1114 Elements of Physical Geography(or approved 3000 or 4000 level GR elective)	3
HI 1063 Early U.S. History	3	HI 1063 Early U.S. History	3
HI 1073 Modern U.S. History	3	HI 1073 Modern U.S. History	3
HI 1163 World History Before 1500	3	HI 1163 World History Before 1500	3
HI 1173 World History Since 1500	3	HI 1173 World History Since 1500	3
HI 3333 Mississippi History	3	HI 3333 Mississippi History	3
HI 4403 The Ancient Near East <u>or</u> HI 4903 The Far East	3	HI 4403 The Ancient Near East <u>or</u> HI 4903 The Far East	3
PS 1113 American Government		PS 1113 American Government	3
PS 1513 Comparative Government <u>or</u> PS 1313 Introduction to International Relations <u>or</u> PS 2703 Introduction to Public Policy	3	PS 1513 Comparative Government <u>or</u> PS 1313 Introduction to International Relations <u>or</u> PS 2703 Introduction to Public Policy	3
3000 or 4000 level history elective	3	3000 or 4000 level history elective	3
3000 or 4000 level HI/PS/EC/GR elective	3	3000 or 4000 level HI/PS/EC/GR elective	3
3000 or 4000 level HI/PS/EC/GR elective	3	3000 or 4000 level HI/PS/EC/GR/PSY/SO elective	3
3000 or 4000 level HI/PS/EC/GR elective	3		
3000 or 4000 level HI/PS/EC/GR/PSY/SO elective			
Oral Communication Requirement		Oral Communication Requirement	
CO 1003 Fundamentals of Public Speaking	3	CO 1003 Fundamentals of Public Speaking	3
Computer Literacy Requirement		Computer Literacy Requirement	
TKT 1273 <u>or</u> BIS 1012 <u>or</u> BS 1013 <u>or</u> CS 1013	3	TKT 1273 <u>or</u> BIS 1012 <u>or</u> BS 1013 <u>or</u> CS 1013	3
Writing Requirement		Writing Requirement	
Satisfied by successful completion of EDS 4643	3	Satisfied by successful completion of EDS 4643	3
Total Hours	124	Total Hours	123

Justification and Student Learning Outcomes

The proposed program modifications presented in this documentation were derived from information collected during the 2018 and 2019 Teacher Education Council meetings. Additional support comes from the Department of Curriculum, Instruction and Special Education Advisory

Council meeting. Organization of this information and the subsequent justification can be collapsed into two distinct categories: increased field observations and an increased demand for our graduates to implement instructional strategies derived from student level assessment data. These two areas of interest are also areas of growth for teacher education programs established by national accreditation organizations such as National Council of Teachers of Mathematics, National Council of Teachers of English, National Science Teachers Association and National Council for the Social Studies.

The addition of EDS 3413 Principles of Secondary Education and the removal of EDS 3411 Secondary Education Practicum and EDF 4243 Planning for the Diversity of Learners directly address concerns related to increasing field experiences for our students. By providing students a lecture/lab formatted course, students will have the opportunity to engage in school observations with the professor present. Currently in the 1-hour course, students are required to observe for 10 hours. In the new lecture/lab format the number of observation hours increases to 30 hours. EDS 3413 will also leverage our increased access to quality field placements and the partnership school. This course will provide secondary students with opportunities to interact with both teachers and professors within the context of the 7-12 school day. The second area of focus is related to developing targeted instructional strategies derived from student level data. To address this concern, we are removing EPY 3253 Evaluating Learning which focuses on the development of assessments and adding a new course that focuses on using assessment data to inform instructional decisions (EDS 4403/6403: Evaluation of Learning in Secondary Schools). Many of the SEC and peer institutions have similar early field experiences including the University of Kentucky, Auburn University, the University of Mississippi, University of North Carolina and Penn State University.

- This program change will meet local, state, regional, and national educational and cultural needs by aligning our curricular elements to the changing needs of the education community and teaching profession. Providing the students with more focused time in the field will be very beneficial.
- This program change will not result in duplication in the System.
- This program will not specifically change or advance student diversity within the discipline. The modification is not targeted to impact the diversity of our student population but more so to increase the diversity of the experiences for our students. However, it will directly benefit the diversity of students in grades 7-12 in Mississippi and the region. Providing our students with more tools to address issues of diversity in 7-12 schools is required by our national accreditation. The assessment course is specifically designed to help our students make better instructional decisions in the 7-12 classroom.
- This program will not result in an increase in the potential placement of graduates in MS, the Southeast, and the U.S. While these changes may not increase the number of graduates it should increase the retention of teachers in 7-12 classrooms.
- This program will not result in an increase in the potential salaries of graduates in MS, the Southeast, and the U.S.

Proposed 4-Letter Abbreviation: No Change
Effective Date: Fall 2020



To: Box Council and UCCC Committee Members

From: Secondary Education Faculty

RE: Support of proposal to modify Secondary Education Degree

Date: Wednesday, October 2, 2019

This letter of support is offered by secondary education faculty in the Department of Curriculum, Instruction, and Special Education, for the proposal to modify Secondary Education Degree program. Modifications will align our program with recommendations from our advisory counsel.

1. Remove EDS 3411
2. Remove EDF 4243
3. Add EDS 3413 Principles of Secondary Education
4. Remove EPY 3253 Evaluating Learning
5. Add EDS 4403/6403 Evaluation of Learning in Secondary Schools

Secondary Education faculty include Drs. Paul Binford, Dana Franz, Peggy ~~M~~ Hopper, Lindon Ratliff, and Ryan Walker. As indicated by the signatures below, a majority of the faculty members have approved the proposal.

Secondary Education Faculty

Date

10-2-2019

10-2-19

Peggy S. Hopper

10-2-19

10-3-19

Paul Binford (Proxy approved via email)

10-3-19

APPROVAL FORM FOR
DEGREE PROGRAMS
MISSISSIPPI STATE UNIVERSITY

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

College: Education

Department: Curriculum, Instruction and
Special Education

Contact Person: Lindon Ratliff, Ph.D.

Mail Stop: 9705

E-mail: ljr1@msstate.edu

Nature of Change: Program Change to MAT-S

Date Initiated: February 18, 2020

Effective Date: June 1, 2020

Current Degree Program Name:

Major: Master of Arts in Teaching

Concentration: Secondary Education

New Degree Program Name:


Major: No change

Concentration: No change

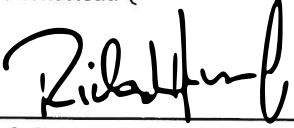
Summary of Proposed Changes:

1. Remove EPY 8473 Middle Level Assessment and Evaluation as the MATS assessment class.
2. Add EDS 6403 Evaluation of Secondary Schools as the MATS assessment class which will better meet the needs of beginning secondary alternate route teachers.
3. Deletion of the "21 hours of course work" admission requirement stated in the Graduate Catalog.
4. Remove EDS 8896 Dimensions of Learning II from the Current Curriculum Outline.

Approved:



Department Head



Chair, College or School Curriculum Committee

Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

Date:

3/5/2020

April 25, 2020

04/27/2020

1. CATALOG DESCRIPTION

Current

The MATS program is an alternate route secondary licensure program of study that consists of 36 semester hours of graduate-level coursework. It is designed for a candidate with a bachelor's degree in a content discipline who wishes to prepare for a career as a teacher. *In addition to the criteria for admission to a Master of Science degree program (with the exception of a teaching license), MATS candidates must pass the ACT or Praxis Core and Praxis II-Specialty Area Test (in the licensure area) and have completed 21 hours of coursework in a College of Education secondary content area of licensure.* MATS students must also pass a certified background check prior to admission.

Students in the MATS will complete the comprehensive examination in the final semester or final 6 hours of enrollment by registering for and passing the *appropriate Praxis Content Area Assessment* examination through ETS.

Proposed

The MATS program is an alternate route secondary licensure program of study that consists of **30** semester hours of graduate-level coursework. It is designed for a candidate with a bachelor's degree in a content discipline who wishes to prepare for a career as a teacher. **All admitted MATS students, applying for a teaching license, must have taken the ACT with a minimum composite score of 21 or have passing Praxis Core. Passing scores, as set by MDE, on the Praxis II-Specialty Area Test are also required for licensure.** MATS students must also pass a certified background check prior to admission.

Students in the MATS will complete the comprehensive examination in the final semester or final 6 hours of enrollment by registering for and passing the **Praxis Principles of Learning and Teaching (PLT)** examination through ETS.

2. CURRICULUM OUTLINE

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Master of Sciences Major: Master of Arts in Teaching – Secondary Education		Degree: Master of Sciences Major: Master of Arts in Teaching – Secondary Education	
<p>The MATS program is an alternate route secondary licensure program of study that consists of 36 semester hours of graduate-level coursework. It is designed for a candidate with a bachelor's degree in a content discipline who wishes to prepare for a career as a teacher. <i>In addition to the criteria for admission to a Master of Science degree program (with the exception of a teaching license), MATS candidates must pass the ACT or Praxis Core and Praxis II-Specialty Area Test (in the licensure area) and have completed 21 hours of coursework in a College of Education secondary content area of licensure.</i> MATS students must also pass a certified background check prior to admission.</p> <p>Students in the MATS will complete the comprehensive examination in the final semester or final 6 hours of enrollment by registering for and passing the <i>appropriate Praxis Content Area Assessment</i> examination through ETS.</p>		<p>The MATS program is an alternate route secondary licensure program of study that consists of 30 semester hours of graduate-level coursework. It is designed for a candidate with a bachelor's degree in a content discipline who wishes to prepare for a career as a teacher. All admitted MATS students, applying for a teaching license, must have taken the ACT with a minimum composite score of 21 or have passing Praxis Core. Passing scores, as set by MDE, on the Praxis II-Specialty Area Test are also required for licensure. MATS students must also pass a certified background check prior to admission.</p> <p>Students in the MATS will complete the comprehensive examination in the final semester or final 6 hours of enrollment by registering for and passing the Praxis Principles of Learning and Teaching (PLT) examination through ETS.</p>	
CURRENT CURRICULUM OUTLINE	Req. Hours	PROPOSED CURRICULUM OUTLINE	Req. Hours
EDS 8243 Advanced Planning and Managing Learning	3	EDS 8243 Advanced Planning and Managing Learning	3
EPY 8473 Middle Level Assessment and Evaluation	3	EDS 6403 Evaluation of Secondary Schools	3
EDS 8623 Principles of Effective Instruction in Secondary Schools	3	EDS 8623 Principles of Effective Instruction in Secondary Schools	3
EDX 8173 Special Education in the Regular Classroom	3	EDX 8173 Special Education in the Regular Classroom	3
EDS 8103 Advanced Methodologies in Middle and Secondary Education	3	EDS 8103 Advanced Methodologies in Middle and Secondary Education	3
RDG 8653 Teaching Reading in the Secondary Schools	3	RDG 8653 Teaching Reading in the Secondary Schools	3
EDS 8886 Dimensions of Learning I	6	EDS 8886 Dimensions of Learning I	6
EDS 66x3 Methods in Secondary Teaching	3	EDS 66x3 Methods in Secondary Teaching	3
EDS 8613 Middle and Secondary School Curriculum	3	EDS 8613 Middle and Secondary School Curriculum	3
<i>EDS 8896 Dimensions of Learning II</i>	6		
Total Hours	36	Total Hours	30

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

A. Justification

The MATS program is an alternate route teacher certification program that allows for candidates to gain certification, as well as, seek a graduate degree. The program is one of the four alternate route teacher certification programs authorized by the Mississippi Department of Education (MDE). Each institute of higher learning in the state may choose to offer any of the four alternate route programs. Mississippi State University for over a decade has offered the MAT-S program. In 2009, due to a concern about upcoming accreditation, the secondary faculty voted to require 21 hours of subject area content for any applicant. The 21-hour requirement was in addition to the MDE requirement of a passing Praxis II – Content test score. After a decade in place, the 21-hour content requirement has hampered enrollment and not been a focus of accreditation reviewers. In addition, Mississippi State University's MATS is the only program requiring the 21 hours of content in addition to the Praxis II score for admission into the program. Therefore, it is the recommendation of the secondary faculty to remove this requirement.

The deletion of the Dimensions II internship will also align the MAT-S program with the other universities in the state. The Dimensions II internship is redundant with Dimensions I and have made the MAT-S program into an extremely large 36-hour program. The deletion of the second internship will align us with every other MAT-S program in the state. In addition, EPY 8473 is being replaced by EDS 6403. The EDS 6403 Evaluation of Secondary Schools course will allow a much stronger emphasis to be placed on assessments within the secondary setting. One of the biggest issues the secondary faculty identified was the disconnect created by the EPY course, with theories in secondary classrooms. The replacement with the EDS course will allow for a secondary focused curriculum and a much stronger MAT-S program of study.

A comparison of the program's new requirements with other Mississippi MATS programs is as follows:

Mississippi State University (MAT-S)

Current Requirement:

- 21 hours of content required for admission
- Internship length – 12 college credit hours

Proposed Changes:

- Does not require 21 hours of content
- Internship length – 6 college credit hours

Southern Mississippi University

- Does not require 21 hours of content for admission
- Internship length - 6 college credit hours

Jackson State University

- Does not require 21 hours of content for admission
- Internship length - 6 college credit hours

University of Mississippi

- Does not require 21 hours of content for admission
- Internship length - 6 college credit hours

Mississippi Valley State University

- Does not require 21 hours of content for admission
- Internship length - 6 college credit hours

Delta State University

- Does not require 21 hours of content for admission
- Internship length - 6 college credit hours

Alcorn State University

- Does not require 21 hours of content for admission
- Internship length – 6 hours

William Carey University

- Does not require 21 hours of content for admission
- Internship length - 6 college credit hours

Mississippi College

- Does not require 21 hours of content for admission
- Internship length – 6 hours

B. Student Learning Outcomes

The MAT-S program trains non-traditional students for the secondary classroom. The program's outcomes allow for students to learn lesson plan creation and implementation, classroom management, curriculum development, assessment analysis and many other valuable secondary education strategies and theories. The modification of this program will not change the student learning outcomes outlined in the original program over a decade ago. The learning outcome of creating a strong and competent certified teacher will continue. The addition of the EDS course will strengthen the outcome of a secondary education training.

C. The Program Modification proposal must address the following questions

1. Will this program change/meet local, state, regional, and national educational and cultural needs? If so, please describe.

Yes. The program will meet MDE requirements for the certification of alternate route teachers in the state which include passing the Praxis II content test. The program will also meet MDE requirements for the issuing of a 5-year teaching license by requiring students to complete 6 hours of internship.

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

No

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

Mississippi State University's secondary education program always strives to assist with certification of a diverse teaching population. The major change of this proposal will be an alignment of requirements with other MAT-S programs in the state. The alignment will increase enrollment and thus have a more diverse population of teachers.

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

These changes will increase the number of MAT-S applicants and thus create more certified teachers in the state.

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

Yes, local school districts pay teachers based on level of degree and years of experience. By gaining an advanced degree from the MAT-S program, teachers will receive more money from their local school districts.

4. SUPPORT

Attached is a letter of support from the secondary education faculty of the CISE department in the College of Education (Dr. Linda Cornelious, Chair of the Department).

Attached is a letter of support from the Department Chair of Education on the Meridian campus, Dr. Kimberly Hall.

5. PROPOSED 4-LETTER ABBREVIATION

MATS

6. EFFECTIVE DATE

Summer 2020



MISSISSIPPI STATE
UNIVERSITY™

COLLEGE OF EDUCATION
Department of Curriculum, Instruction,
and Special Education
175 President's Circle
Allen Hall, Room 310
Mississippi State, MS 39762
P. 662.325.3523
F. 662.325.7857
cise.msstate.edu

TO: Box Council and UCCC Members
FROM: Secondary Education Faculty
RE: Support of Proposal to Modify Secondary Education Degree
DATE: Tuesday, February 18, 2020

This letter of support is offered by secondary education faculty in the Department of Curriculum, Instruction, and Special Education, for the proposal to modify a Secondary Education Graduate Degree program. Modifications will align our program with recommendations from our advisory council.

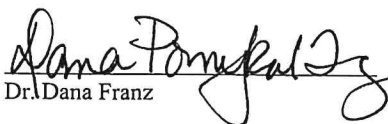
1. Remove EPY 8473 Middle Level Assessment and Evaluation as the MATS assessment class.
2. Add EDS 6403 Evaluation of Secondary Schools as the MATS assessment class which will better meet the needs of beginning secondary alternate route teachers.
3. Deletion of the "21 hours of course work" admission requirement stated in the Graduate Catalog.
4. Remove EDS 8896 Dimensions of Learning II from the Current Curriculum Outline.

Secondary Education faculty include Drs. Paul Binford, Dana Franz, Peggy F. Hopper, Lindon Ratliff, and Ryan Walker. As indicated by the signatures below, a majority of the faculty members have approved the proposal.

Secondary Education Faculty

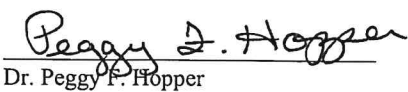
Dr. Paul Binford

Date



Dr. Dana Franz

2/18/2020
Date




Dr. Peggy F. Hopper

2-18-20
Date



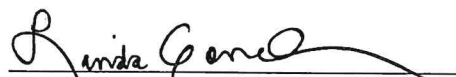
Dr. Landon Ratliff

2/18/2020
Date



Dr. Ryan Walker

2/20/2020
Date



Dr. Linda Cornelious, Department Head
Curriculum, Instruction and Special Education

2/21/2020
Date



MISSISSIPPI STATE
UNIVERSITY™

MSU - MERIDIAN

Division of Education
College Park Campus
1000 Hwy 19 North
Meridian, MS 39307

P. 601.484.0170

F. 601.484.0280

meridian.msstate.edu

TO: Box Council and UCCC Committee Members
FROM: MSU- Meridian, Head, Division of Education
RE: Master of Arts in Teaching Degree Program Revisions
DATE: March 4, 2020

Dear Box Council and UCCC Committee Members,

This letter of support is offered by the Meridian Division Head for the College of Education for the proposed revisions to the Master of Arts in Teaching degree program, specifically

- Removal of EPY 8473 Middle Level Assessment & Evaluation
- Addition of EDS 6403 Evaluation of Secondary Schools
- Deletion of '21 hours of course work' as an admission requirement
- Removal of EDS 8896 Dimensions of Learning II

Sincerely,

Kimberly Hall, Ph.D.
Professor & Head, Division of Education

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: Aerospace Engineering

Contact Person: Machaunda Bush

Mail Stop: 9549

E-mail: mb2@msstate.edu

Nature of Change: Curriculum Change

Date Initiated: 02/24/2020

Effective Date: 8/1/2020

Current Degree Program Name: Aerospace Engineering

Major: Aerospace Engineering

Concentration: Aeronautics or Astronautics

New Degree Program Name:

Major:

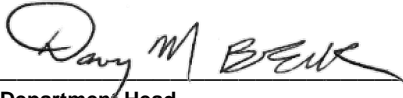
Concentration:

Summary of Proposed Changes:

This proposal aims to modify the degree requirements for the Bachelor of Science in Aerospace Engineering by removing an existing course (ASE 2013 Astro, Propul, Struct) and adding a new course (EG 1143 Graphic Comm) to the curriculum.

Approved:

Date:



Department Head
(Davy Belk)

23 April 2020

Chair, College or School Curriculum Committee
(Andy Perkins)

April 27, 2020

Dean of College or School
(Jason Keith)

Chair, University Committee on Courses and Curricula
(Dana Franz)

Chair, Graduate Council (if applicable)

Chair, Deans Council

DEGREE MODIFICATION PROPOSAL:
REQUIRED ELECTIVE FOR AEROSPACE STUDENTS

1. CATALOG DESCRIPTION

Current Catalog Description of Degree Program:

Department Head: Professor Davy Belk
Academic Coordinator: Ms. Machaunda Bush
Office: 330 Walker Engineering Building

The Department of Aerospace Engineering at Mississippi State University provides an accredited undergraduate curriculum with the mission of preparing students to enter the workplace as qualified entry-level aerospace engineers or to enter any aerospace engineering graduate program adequately prepared for advanced study. This mission is accomplished by a strong foundation in mathematics and physical and engineering sciences upon which student problem-solving and application skills are developed. The curriculum stresses analytical and communication skills, with particular emphasis placed on engineering design throughout the curriculum. A capstone design experience in the senior year provides the opportunity to integrate design, analytical, and problem-solving skills along with communication skills in a team environment that emulates aerospace engineering practice.

The mission is accomplished by the following educational objectives, which describe the career and professional accomplishments we are preparing our graduates to achieve. Our graduates will:

1. Be involved in solving unstructured engineering problems within their organization that will allow them to successfully advance in the engineering profession.
2. Be engaged in lifelong learning and pursue professional development through actions such as persistent study of the current literature in the field, participation in graduate education, professional education or continuing education opportunities, attainment of professional licensure, or membership in professional societies.
3. Be professionally and ethically responsible to the profession, society, and the environment incumbent on an engineering professional.
4. Collaborate successfully and positively on multi-disciplinary, culturally-diverse teams in support of their organizational goals.
5. Communicate effectively in various settings and contexts by activities such as writing technical reports and peer-reviewed articles and presenting at technical interchanges.

These objectives are accomplished in two different concentrations in the aerospace engineering curriculum, an aeronautics concentration and an astronautics concentration. The concentration in aeronautics focuses on the analysis and design of aircraft and other vehicles that operate primarily within the earth's atmosphere, and the concentration in astronautics focuses on the analysis and design of spacecraft and other vehicles that operate primarily outside the earth's atmosphere. A student in aerospace engineering will choose one of these two concentrations upon choosing the aerospace engineering major.

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

New Catalog Description of Degree Program:

Department Head: Dr. Davy Belk
Academic Coordinator: Ms. Machaunda Bush
Office: 321 Walker Engineering Building

The Department of Aerospace Engineering at Mississippi State University provides an accredited undergraduate curriculum with the mission of preparing students to enter the workplace as qualified entry-level aerospace engineers or to enter any aerospace engineering graduate program adequately prepared for advanced study. This mission is accomplished by a strong foundation in mathematics and physical and engineering sciences upon which student problem-solving and application skills are developed. The curriculum stresses analytical and communication skills, with particular emphasis placed on engineering design throughout the curriculum. A capstone design experience in the senior year provides the opportunity to integrate design, analytical, and problem-solving skills along with communication skills in a team environment that emulates aerospace engineering practice.

The mission is accomplished by the following educational objectives, which describe the career and professional accomplishments we are preparing our graduates to achieve. Our graduates will:

1. Be involved in solving unstructured engineering problems within their organization that will allow them to successfully advance in the engineering profession.
2. Be engaged in lifelong learning and pursue professional development through actions such as persistent study of the current literature in the field, participation in graduate education, professional education or continuing education opportunities, attainment of professional licensure, or membership in professional societies.
3. Be professionally and ethically responsible to the profession, society, and the environment incumbent on an engineering professional.
4. Collaborate successfully and positively on multi-disciplinary, culturally-diverse teams in support of their organizational goals.
5. Communicate effectively in various settings and contexts by activities such as writing technical reports and peer-reviewed articles and presenting at technical interchanges.

These objectives are accomplished in two different concentrations in the aerospace engineering curriculum, an aeronautics concentration and an astronautics concentration. The concentration in aeronautics focuses on the analysis and design of aircraft and other vehicles that operate primarily within the earth's atmosphere, and the concentration in astronautics focuses on the analysis and design of spacecraft and other vehicles that operate primarily outside the earth's atmosphere. A student in aerospace engineering will choose one of these two concentrations upon choosing the aerospace engineering major.

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

2. DESCRIPTION OF CHANGES

Currently, ASE 2013 is a required Engineering topics course. It is proposed that ASE 2013 be replaced by EG 1143 in the catalog.

Current Course: ASE 2013 (Prerequisite: ASE 1013 and a grade of C or better in MA 1713 and credit or registration in MA 1723 and PH 2213). Three hours lecture. Three hours laboratory. Introduction to space flight

(astronautics), propulsion, flight vehicle structures and materials, and hypersonic vehicles, applications of computer modeling, computational tools, with historical perspectives

New Course: EG 1143 Three hours lecture. Orthographic projection, instrumental drawing, point, line, plane identities, computer assisted design and drafting using personal computers.

3. JUSTIFICATION FOR CHANGE:

- The Aerospace Engineering faculty members agreed that it is important for Aerospace students to improve and strengthen their skills through an engineering graphics course. This will also be important in their future careers, whether in industry, government labs, or academia.
- The content of ASE 2013 is already accommodated within other classes, and freshmen students are sufficiently exposed to aerospace engineering topics by the ASE 1013 class that is offered in the fall semester.

4. CURRICULUM OUTLINE

(A) Aeronautics Curriculum

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Bachelor of Science Major: Aerospace Engineering Concentration: Aeronautics		Degree: Bachelor of Science Major: Aerospace Engineering Concentration: Aeronautics	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
ASE 1013 Introduction to Aerospace Engineering	3	ASE 1013 Introduction to Aerospace Engineering	3
CH 1211 Investigation in Chemistry	1	CH 1211 Investigation in Chemistry	1
CH 1213 Chemistry I	3	CH 1213 Chemistry I	3
EN 1103 English Composition I	3	EN 1103 English Composition I	3
MA 1713 Calculus I	3	MA 1713 Calculus I	3
--- Humanities Elective		--- Humanities Elective	3
ASE 2013 Astronautics, Propulsion and Structures	3	EG 1143 Graph Communication	3
EN 1113 English Composition II	3	EN 1113 English Composition II	3
MA 1723 Calculus II	3	MA 1723 Calculus II	3
PH 2213 Physics I	3	PH 2213 Physics I	3
CSE 1233	3	CSE 1233	3
--- Social/Behav. Sci. Elective		--- Social/Behav. Sci. Elective	
ASE 2113 Aircraft and Spacecraft Performance	3	ASE 2113 Aircraft and Spacecraft Performance	3
EM 2413 Engineering Mechanics I	3	EM 2413 Engineering Mechanics I	3
MA 2733 Calculus III	3	MA 2733 Calculus III	3
PH 2223 Physics II	3	PH 2223 Physics II	3

MA 3113 Linear Algebra --- Social/Behav. Sci. Elective	3 3	MA 3113 Linear Algebra --- Social/Behav. Sci. Elective	3 3
EM 2433 Engineering Mechanics II	3 3	EM 2433 Engineering Mechanics II	3 3
EM 3213 Mechanics of Materials	3	EM 3213 Mechanics of Materials	3
MA 2743 Calculus IV	3	MA 2743 Calculus IV	3
MA 3253 Differential Equations I	3	MA 3253 Differential Equations I	3
<i>PH 2233 Physics III</i> --- Fine Arts Elective		--- Humanities Elective	
ASE 3233 Aero Structural Analysis I	3 3	ASE 3233 Aero Structural Analysis I	3 3
ASE 3333 Aerothermodynamics		ASE 3333 Aerothermodynamics	
ECE 3413 Introduction to Electronic Circuits	3 3	ECE 3413 Introduction to Electronic Circuits	3 3
EM 3313 Fluid Mechanics	3	EM 3313 Fluid Mechanics	3
EM 3413 Vibrations	3	EM 3413 Vibrations	3
ASE 3123 Aircraft Attitude Dynamics	3	ASE 3123 Aircraft Attitude Dynamics	3
ASE 3243 Aerospace Structural Analysis II	3 3	ASE 3243 Aerospace Structural Analysis II	3 3
ASE 3313 Incompress. Aerodynamics	3 3	ASE 3313 Incompress. Aerodynamic	3 3
GE 3513 Technical Writing --- Math/Science Elective		GE 3513 Technical Writing --- Math/Science Elective	
ASE 4113 Aerospace Eng Lab I	3	ASE 4113 Aerospace Eng Lab I	3
ASE 4123 Aerospace Controls	3	ASE 4123 Aerospace Controls	3
ASE 4343 Compressible Aerodynamics	3 3	ASE 4343 Compressible Aerodynamics	3 3
ASE 4513 Aircraft Design I	3	ASE 4513 Aircraft Design I	3
ASE 4623 Aerospace Structural Design	3 1	ASE 4623 Aerospace Structural Design	3 1
ASE 4413 Aircraft Propulsion	3	ASE 4413 Aircraft Propulsion	3
ASE 4523 Aircraft Design II	3	ASE 4523 Aircraft Design II	3
ASE 4721 Aerospace Engineering Lab II	3	ASE 4721 Aerospace Engineering Lab II	3
--- Technical Elective		--- Technical Elective	
--- Technical Elective		--- Technical Elective	
--- Fine Arts Elective		--- Fine Arts Elective	
Total Hours	128	Total Hours	128

(B) Astronautics Curriculum

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Bachelor of Science Major: Aerospace Engineering Concentration: Astronautics		Degree: Bachelor of Science Major: Aerospace Engineering Concentration: Astronautics	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
ASE 1013 Introduction to Aerospace	3 1	ASE 1013 Introduction to Aerospace	3 1
CH 1211 Investigation in Chemistry	3 3	CH 1211 Investigation in Chemistry	3 3
CH 1213 Chemistry I	3	CH 1213 Chemistry I	3
EN 1103 English Composition I	3	EN 1103 English Composition I	3
MA 1713 Calculus I		MA 1713 Calculus I	
--- Humanities Elective		--- Humanities Elective	3
	3		3
ASE 2013 Astronautics, Propulsion and Structures	3	EG 1143 Graph Communication	3
EN 1113 English Composition II	3	EN 1113 English Composition II	3
MA 1723 Calculus II	3	MA 1723 Calculus II	3
PH 2213 Physics I	3	PH 2213 Physics I	3
CSE 1233		CSE 1233	
--- Social/Behav. Sci. Elective		--- Social/Behav. Sci. Elective	
ASE 2113 Aircraft and Spacecraft Performance	3	ASE 2113 Aircraft and Spacecraft Performance	3
EM 2413 Engineering Mechanics I	3 3	EM 2413 Engineering Mechanics I	3 3
MA 2733 Calculus III	3	MA 2733 Calculus III	3
PH 2223 Physics II	3	PH 2223 Physics II	3
MA 3113 Linear Algebra	3	MA 3113 Linear Algebra	3
--- Social/Behav. Sci. Elective		--- Social/Behav. Sci. Elective	
	3		3
EM 2433 Engineering Mechanics II	3 3	EM 2433 Engineering Mechanics II	3 3
EM 3213 Mechanics of Materials	3	EM 3213 Mechanics of Materials	3
MA 2743 Calculus IV	3	MA 2743 Calculus IV	3
MA 3253 Differential Equations I	3	MA 3253 Differential Equations I	
PH 2233 Physics III		--- Humanities Elective	
--- Fine Arts Elective			
ASE 3233 Aero Structural Analysis I	3 3	ASE 3233 Aero Structural Analysis I	3 3

ASE 3333 Aerothermodynamics	3	ASE 3333 Aerothermodynamics	3
ASE 3813 Intro Orbital Mechanics		ASE 3813 Intro Orbital Mechanics	
ECE 3413 Introduction to	3	ECE 3413 Introduction to	3
Electronic Circuits	3	Electronic Circuits	3
EM 3413 Vibrations		EM 3413 Vibrations	
ASE 3243 Aerospace Structural	3	ASE 3243 Aerospace Structural	3
Analysis II	3	Analysis II	3
ASE 3823 Space Attitude	3	ASE 3823 Space Attitude	3
Dynamics	3	Dynamics	3
GE 3513 Technical Writing	3	GE 3513 Technical Writing	3
EM 3313 Fluid Mechanics		EM 3313 Fluid Mechanics	
--- Math/Science Elective		--- Math/Science Elective	
ASE 4113 Aerospace Eng Lab I	3	ASE 4113 Aerospace Eng Lab I	3
ASE 4123 Aerospace Controls	3	ASE 4123 Aerospace Controls	3
ASE 4343 Compressible	3	ASE 4343 Compressible	3
Aerodynamics	3	Aerodynamics	3
ASE 4533 Spacecraft Design I	3	ASE 4533 Spacecraft Design I	3
ASE 4623 Aerospace Structural		ASE 4623 Aerospace Structural	
Design	3	Design	3
	1		1
ASE 4443 Spacecraft Propulsion	3	ASE 4443 Spacecraft Propulsion	3
ASE 4543 Spacecraft Design II	3	ASE 4543 Spacecraft Design II	3
ASE 4721 Aerospace	3	ASE 4721 Aerospace	3
Engineering Lab II		Engineering Lab II	3
--- Technical Elective		--- Technical Elective	
--- Technical Elective		--- Technical Elective	
		--- Fine Arts Elective	
Total Hours	128	Total Hours	128



March 31, 2020

University Committee on Courses and Curricula
Mississippi State University

Subject: Letter of Support







Dear UCCC committee:

This letter is to confirm that the Aerospace Engineering (ASE) Undergraduate Committee supports the next changes in the Aerospace Engineering Curriculum:

-Remove *ASE 2013 Aeronautics, Propulsion, and Structures* from the ASE Undergraduate Curriculum

-Add *EG 1143 Graphic Communication* to the ASE Undergraduate Curriculum.

Please do not hesitate to contact us if you need additional information.

ASE Undergraduate Committee	Signature	Date
Adrian Sescu (chair)	 Digitally signed by Adrian Sescu DN: cn=Adrian Sescu, o, ou, email=sescu@ae.msstate.edu, c=US Date: 2020.03.31 11:27:14 -05'00'	
Rani Sullivan	 Digitally signed by Rani Warsi Sullivan Date: 2020.03.31 13:23:27 -05'00'	
Mark Janus	 Digitally signed by J. Mark Janus DN: cn=J. Mark Janus, o=MSU, ou=ASE, email=mark@hpc.msstate.edu, c=US Date: 2020.03.31 12:29:19 -05'00'	
Calvin Walker	 Digitally signed by Calvin R. Walker Date: 2020.03.31 11:45:38 -05'00'	
Yang Cheng		03/31/2020
Carmen Sescu	 Digitally signed by Carmen Sescu DN: cn=Carmen Sescu, o=Aerospace Engineering, ou, email=cs3613@msstate.edu, c=US Date: 2020.03.31 14:23:50 -05'00'	



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MISSISSIPPI STATE UNIVERSITY™
JAMES WORTH
BAGLEY
COLLEGE OF ENGINEERING

DEPARTMENT OF INDUSTRIAL
& SYSTEMS ENGINEERING

Dr. Kari Babski-Reeves
Professor and Interim Head
kari@ise.msstate.edu

March 5, 2020

ASE Faculty

ISE has received your request to add EG 1143 as a required course to the ASE undergraduate curriculum. We are supportive of this change and will manage offerings to support the increased enrollment. If you have any questions or concerns, do not hesitate to contact me.

Regards

Kari Babski-Reeves
Associate Dean
Professor and Interim Head, Department of Industrial and Systems Engineering
IRB Chair
President, Board of Certified Ergonomists