#### 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	BCH 2023	Molecular Mechanisms of Human Diseases
+Online/Distance		(Tabled at April 23 <sup>rd</sup> UCCC meeting)

## **ARTS & SCIENCES**

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

# **EDUCATION**

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

#### **ENGINEERING**

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

# FOREST RESOURCES

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

# 4. Degree proposals by college/school

# **EDUCATION**

Modification	BS	Secondary Education
Modification	MAT-S	Secondary Education

# **ENGINEERING**

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Modification	BS	Aerospace

#### 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 Nature of Change: Modification 2020 Current Degree Program Name: E	Mail Stop: 9705 E-mail: df76@msstate.edu Date Initiated: 10/02/19 Effective Date: Fall Bachelor's of Science
Major: Secondary Education	Concentration: Mathematics, Biology, Physics, Chemistry, English, Social Studies
New Degree Program Name: NA	
Major: NA	Concentration: NA
EDF 4243 Planning for the Div	econdary Education and EDS 4403/6403 Evaluation of
Approved:	Date:
Department Head	3/5/2020
Chair, College or School Curriculum Committee	April 25, 2020
	04/27/2020
Dean of College or School	
Chair, University Committee on Courses and Cu	urricula

Chair, Graduate Council (if applicable)		

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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		Degree: Bachelor of Science	
Major: Secondary Education (SEED)		Major: Secondary Education (SEED)	
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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 designaccordance with the recommendations of the National Science Teachers Association and National Science Education Standards for prospective teachers at the secondary level (grades 7-12). Courses designed for nonscient majors will not count toward a degree in any of science education.	ed in e the
CURRENT CURRICULUM OUTLINE	Req. Hours	PROPOSED CURRICULUM OUTLINE	Req. Hour s
English EN 1103 English Composition I or equivalent (C or better)	3	English EN 1103 English Composition I or equivalent (C or better)	3
	3	*	3

EN 4440 E. II I O. III II		Levi 4440 e Communication	
EN 1113 English Composition II or		EN 1113 English Composition II or	
equivalent (C or better)		equivalent (C or better)	
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Natural Sciences		Natural Sciences	
(see content area):		(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	3	ST 3123 Introduction to Statistical	3
Inference		Inference	
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	
RDG 3513 Developing Reading	3	in Secondary School Content Areas	3
Strategies in Secondary School		EDF 3333 Social Foundations	3
Content Area		EDS 3653 Secondary Science Education	3
EDF 3333 Social Foundations	3	EDS 4653 Methods of Teaching Science	3
EDS 3411 Practicum in Secondary	1	EDS 4873 Seminar in Managing the	
Ed.	3	Secondary Classroom	3
EDS 3653 Secondary Science		EDS 4886 Teaching Intern in Sec. Ed.	6
Education		EDS 4896 Teaching Intern in Sec. Ed.	6
EDS 4653 Methods of Teaching	3	EDS 3413 Principles of Secondary	
Science		Education	3
EDS 4873 Seminar in Managing the	3	EDS 4403/6403 Evaluation of Learning	
Secondary Classroom	6	in Secondary Schools	3
EDS 4886 Teaching Intern in Sec.	6	~	
Ed.	3		
EDS 4896 Teaching Intern in Sec.			
Ed.			
EPY 3253 Evaluating Learning			
Concentration Courses		Concentration Courses	
Choose 57 hours of approved		Choose 57 hours of approved coursework	
coursework within concentration		within concentration area. Must include the	
area. Must include the required		required subject area core.	
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	32	BIO 3104 Ecology	32
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		CH 1211 Chemistry I Lab	

CH 1211 Chemistry I Lab BCH 4013 Principles of Biochemistry BCH 4013 Principles of Biochemistry Electives approved by advisor that result in	
Electives approved by advisor that result in	
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. Hour s
English EN 1103 English Composition I or equivalent (C or better) EN 1113 English Composition II or equivalent (C or better) EN 1113 English Composition II or equivalent (C or better)  English EN 1103 English Composition I or equivalent (C or better)  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	
(see content area): (see content area):	
Extra Science (see content area) Extra Science (see content area)	
Math:	
MA 1713 Calculus I 3 MA 1713 Calculus I	3
ST 3123 Introduction to Statistical 3 ST 3123 Introduction to Statistical	3
Inference Inference	

Humanities (General Education):	6	Humanities (General Education):	6
Social/Behavioral Sciences (Gen Ed):	6	Social/Behavioral Sciences (Gen Ed):	6
Major Core Courses	3	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	٦
RDG 3513 Developing Reading	3	in Secondary School Content Areas	3
Strategies in Secondary School	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	3	EDS 4873 Seminar in Managing the	•
Ed.		Secondary Classroom	3
EDS 3653 Secondary Science	3	EDS 4886 Teaching Intern in Sec. Ed.	6
Education	6	EDS 4896 Teaching Intern in Sec. Ed.	6
EDS 4653 Methods of Teaching	6	EDS 3413 Principles of Secondary	
Science	3	Education	3
EDS 4873 Seminar in Managing the		EDS 4403/6403 Evaluation of Learning	
Secondary Classroom		In Secondary Schools	3
EDS 4886 Teaching Intern in Sec.		•	
Ed.			
EDS 4896 Teaching Intern in Sec.			
Ed.			
EPY 3253 Evaluating Learning			
Concentration Courses		Concentration Courses	
Choose 57 hours of approved		Choose 57 hours of approved coursework	
coursework within concentration		within concentration area. Must include the	
area. Must include the required		required subject area core.	
subject area core.			
		Required Subject area core	
Required Subject area core		CH 1213 Chemistry I	1
CH 1213 Chemistry I		CH 1211 Investigations in Chemistry II	
CH 1211 Investigations in Chemistry	26	CH 1223 Chemistry II	26
II		CH 1221 Investigations in Chemistry II	
CH 1223 Chemistry II		CH 2311 Analytical Chemistry I Laboratory	
CH 1221 Investigations in Chemistry		CH 2313 Analytical Chemistry I	
II		CH 3213 Inorganic Chemistry <u>or</u> Ch 4213	
CH 2311 Analytical Chemistry I		Advanced Inorganic Chemistry I	
Laboratory		CH 4511 Organic Chemistry Laboratory I	
CH 2313 Analytical Chemistry I		CH 4513 Organic Chemistry I	
CH 3213 Inorganic Chemistry or Ch		CH 4523 Organic Chemistry II	
4213 Advanced Inorganic Chemistry I		CH 4521 Organic Chemistry Laboratory II	
CH 4511 Organic Chemistry		BCH 4013 Principles of Biochemistry	
Laboratory I			
CH 4513 Organic Chemistry I	31	Electives approved by advisor that result in	31
CH 4523 Organic Chemistry II		a double major or an additional area of	
CH 4521 Organic Chemistry		licensure.	
Laboratory II			
BCH 4013 Principles of Biochemistry			

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  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  Writing 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  Total Hours  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).  Req. CURRENT CURRICULUM OUTLINE  English  En 1103 English Composition I or equivalent (C or better)  Oral Communication 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  Writing 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  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  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).  Req.  CURRENT CURRICULUM OUTLINE  Sending T
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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  Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  Total Hours  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 English EN 1103 English Composition I  Computer Literacy Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  Total Hours  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).  Req. Hours  English EN 1103 English Composition I  3  Computer Literacy Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  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).  Req. Hours  English EN 1103 English Composition I  3  English EN 1103 English Composition I
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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  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).  Req. CURRENT CURRICULUM OUTLINE Req. English En 1103 English Composition I 3 Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science
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Diverse Learners  Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  Total Hours  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).  Req. CURRENT CURRICULUM OUTLINE  Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  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).  Req. Hours  English EN 1103 English Composition I  3  Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  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).  Req. Hours  English English English Composition I  3
Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  Total Hours  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).  Req. CURRENT CURRICULUM OUTLINE  Writing Requirement Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  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).  Req. Hours  English EN 1103 English Composition I  Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  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).  Req. Hours  English English English Composition I  3
Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  Total Hours  Total Hours  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).  Req. CURRENT CURRICULUM OUTLINE  English En 1103 English Composition I  Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  ENGLISH CONCENTRATION DESCRIPTION The 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).  Req. Hours  English EN 1103 English Composition I  Satisfied by the successful completion of EDF 4243 Plan for Diverse Learners and EDS 3653 Secondary Science Education  ENGLISH CONCENTRATION DESCRIPTION The English English Concentration  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).  Req. Hours  English EN 1103 English Composition I  Satisfied by the successful completion Diverse Learners and EDS 3653 Secondary Science Education ENGLISH CONCENTRATION DESCRIPTION The English EN 24  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 English Composition I
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Diverse Learners and EDS 3653 Secondary Science Education  Total Hours  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).  Req. CURRENT CURRICULUM OUTLINE  English EN 1103 English Composition I  3  EDS 3653 Secondary Science Education  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).  Req. PROPOSED CURRICULUM OUTLINE Hours  English EN 1103 English Composition I  3
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Total Hours  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).  Req. CURRENT CURRICULUM OUTLINE  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).  Req. Hours  English EN 1103 English Composition I  3  English EN 1103 English Composition I  3  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).  Req. Hours  English English English English English Composition I  3
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teachers at the secondary level (grades 7-12).  Req. Hours  English EN 1103 English Composition I  teachers at the secondary level (grades 7-12).  Req. Hours  PROPOSED CURRICULUM OUTLINE  teachers at the secondary level (grades 7-12).  Req. Hours  English EN 1103 English Composition I  3
(grades 7-12).       12).         Req.       Req.         CURRENT CURRICULUM OUTLINE       Hours         English       English         EN 1103 English Composition I       3         EN 1103 English Composition I       3
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EN 1103 English Composition I 3 EN 1103 English Composition I 3
of equivalent (C of better)
equivalent (C or better) equivalent (C or better)
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:
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

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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
RDG 3513 Developing Reading	3	RDG 3513 Developing Reading Strategies	3
Strategies in Secondary School		in Secondary School Content Areas	3
Content Areas	3	EDF 3333 Social Foundations	3
EDF 3333 Social Foundations	1	EDS 3673 Secondary Language Arts	
EDS 3411 Practicum in Secondary	3	Education	3
Ed.	3	EDS 4673 Methods of Teaching Language	
EDF 4243 Plan for Diverse Learners		Arts Education	3
EDS 3673 Sec. Language Arts	3	EDS 4873 Seminar in Managing the	
Education		Secondary Classroom	6
EDS 4673 Methods of Teaching	3	EDS 4886 Teaching Intern in Sec. Ed.	6
Language Arts Education	6	EDS 4896 Teaching Intern in Sec. Ed.	3
EDS 4873 Seminar in Managing the	6	EDE 3343 Teaching Adolescent Literature	3
Secondary Classroom	3	EDS 3413 Principles of Secondary	
EDS 4886 Teaching Intern in Sec.	3	Education	3
Ed.		EDS 4403/6403 Evaluation of Learning	
EDS 4896 Teaching Intern in Sec.		in Secondary Schools	
Ed.			
EPY 3253 Evaluating Learning			
Content Area		Content Area	ı
EN 2243 American Lit Before 1865	3	EN 2243 American Lit Before 1865	3
EN 2253 American Lit After 1865	3	EN 2253 American Lit After 1865	3
EN 2213 English Lit Before 1800	3	EN 2213 English Lit Before 1800	3
EN 2223 English Lit After 1800	3	EN 2223 English Lit After 1800	3
EN 2273 World Lit Before 1600	3	EN 2273 World Lit Before 1600	3
or EN 2283 World Lit after 1600		<u>or</u> EN 2283 World Lit after 1600	
EN 2434 Literature and Film	3-4	EN 2434 Literature and Film	3-4
or EN 3523 Shakespeare and Film		or EN 3523 Shakespeare and Film	
EN 3414 Critical Writing and	4	EN 3414 Critical Writing and Research in	4
Research in Literacy Studies		Literacy Studies	
EN 3423 Descriptive English	3	EN 3423 Descriptive English Grammar	3
Grammar	3	EN 4503	3
EN 4503		<u>or</u> EN 4513 Shakespeare	
or EN 4513 Shakespeare	3	EN 4413 History of the English Language	3
EN 4413 History of the English		or EN 4403 Introduction to Linguistics	
Language		or EN 4633 Language and Society	
or EN 4403 Introduction to	3	EN 4323 Literacy Criticism from Plato-	3
Linguistics	- 1	Present	
or EN 4633 Language and Society		or EN 4353 Critical Theory Since 1900	
EN 4323 Literacy Criticism from	3	EN 3000/4000 Elective	3
Plato-Present	3	EN 3000/4000 Elective	3
or EN 4353 Critical Theory Since	3	EN 3000/4000 Elective	3
1900			000
EN 3000/4000 Elective			
EN 3000/4000 Elective			
EN 3000/4000 Elective			
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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. Hour s
English		English	
EN 1103 English Composition I	3	EN 1103 English Composition I	3
or equivalent (C or better) EN 1113 English Composition II or	3	or equivalent (C or better) EN 1113 English Composition II or	3
equivalent (C or better)	3	equivalent (C or better)	3
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Mathematics		Mathematics	
MA 1713 Calculus I	3	MA 1713 Calculus I	3
MA 1723 Calculus II	3	MA 1723 Calculus II	3
Sciences (must include 2 labs)		Sciences (must include 2 labs)	
Biological Science w/lab	3	Biological Science w/lab	3
Physical Science	6	Physical Science	6
(Calculus based PH 2213 or CH 1213		(Calculus based PH 2213 or CH 1213 or	
or higher)		higher)	
Humanities		Humanities	
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
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Social/Behavioral Sciences (Gen Ed):	2	Social/Behavioral Sciences (Gen Ed):	2
PSY 1013 General Psychology	3	PSY 1013 General Psychology	3
SO 1003 Introduction to Sociology Additional CORE	3	SO 1003 Introduction to Sociology	3
PS 1113 American Government	3	Additional CORE PS 1113 American Government	2
EN Literature Electives	6	EN Literature Electives	3 6
EN LITERATURE ELECTIVES	U	EN LITETATUTE ETECTIVES	0

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Major Core Courses		<u>Major Core Courses</u>	
EDF 4243 Plan for Diverse Learners	3	EDF 3333 Social Foundations	3
EDF 3333 Social Foundations	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	3
EPY 3253 Evaluating Learning	3	in Secondary School Content Areas	3
RDG 3513 Developing Reading	3	EDS 3633 Secondary Mathematics	3
Strategies in Secondary School	1	Education	3
Content Areas	'		6
	3	EDS 4653 Methods of Teaching	1 7 7
EDS 3411 Practicum in Secondary	3	Mathematics	6
Ed.	3	EDS 4873 Seminar in Managing the	
EDS 3633 Secondary Mathematics	6	EDS 4886 Teaching Intern in Sec. Ed.	3
Education	6	EDS 4896 Teaching Intern in Sec. Ed.	
EDS 4653 Methods of Teaching		EDS 3413 Principles of Secondary	3
Mathematics		Education	
EDS 4873 Seminar in Managing the		EDS 4403/6403 Evaluation of Learning	
EDS 4886 Teaching Intern in Sec.		in Secondary Schools	
Ed.		I'm decemany compose	
EDS 4896 Teaching Intern in Sec.			
Ed.			
Concentration Courses		Concentration Courses	*
	125		
MA 2733 Calculus III	3	MA 2733 Calculus III	3
MA 2743 Calculus IV	3	MA 2743 Calculus IV	3
MA 3053 Foundations of	3	MA 3053 Foundations of Mathematics	3
Mathematics	3	MA/ST 3123 Intro to Statistical Inferences	3
MA/ST 3123 Intro to Statistical	3	MA 3113 Introduction to Linear Algebra	3
Inferences	3	MA 3163 Introduction to Modern Algebra	3
MA 3113 Introduction to Linear	3	MA 3253 Differential Equations I	3
Algebra	3	MA 3463 Foundations of Geometry	3
MA 3163 Introduction to Modern	3		
		MA 3513 History of Mathematics	3
Algebra	3	MA 4523 Introduction to Probability	3
MA 3253 Differential Equations I			
MA 3463 Foundations of Geometry			
MA 3513 History of Mathematics			
MA 4523 Introduction to Probability			
Oral Communication Requirement		Oral Communication Requirement	
CO 1003 Fundamentals of Public	3	CO 1003 Fundamentals of Public	3
Speaking		Speaking	
Computer Literacy Requirement		Computer Literacy Requirement	
CSE 1233 Computer Programming		CSE 1233 Computer Programming with C	
with C OR_CSE 1273 Computer	_	OR_CSE 1273 Computer Programming	
Programming with Java	3	with Java	3
Writing Requirement		Writing Requirement	
EDF 3413 Writing for Thinking	3	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 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  English EN 1103 English Composition I or equivalent (C or better) EN 1113 English Composition II or equivalent (C or better) EN 1113 English Composition II or equivalent (C or better) Fine Arts (General Education):  Natural Sciences (see content area): Extra Science (see content area)  Math:  MA 1713 Calculus I ST 3123 Introduction to Statistical Inference Humanities (General Education):  Math:  MA 1713 Calculus I ST 3123 Introduction to Statistical Inference Humanities (General Education):  SCOAI/Behavioral Sciences (Gen Ed):  Major Core Courses EPY 3143 Human Dev& Learning EDX 3213 Exceptional Child/Youth EDF 4243 Plan for Diverse Learners SDS 3453 Secondary Science Education Science Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Teachers Association and the National Science Teachers Association and the National Science Education Science Education Science Education and the National Science Education and the National Science Education and the National Science Education.  Req.  English En 1103 English Composition I or equivalent (C or better)  S Fine Arts (General Education):  A Strate Science (see content area)  Math:  MA 1713 Calculus I S T3 3123 Introduction to Statistical Inference  Humanities (General Education):  A Social/Behavioral Sciences (Gen Ed):  Major Core Courses EPY 3143 Human Dev& Learning Science Science Education Science EDS 3653 Secondary Science Science Science Science Education Science EDS 4863 Methods of Teaching Science Science Education Sciences (Gen Ed):  EDS 365				
The Physics Education Curriculum is designed in accordance with the recommendations of the National Science Teachers Association and the National Science Education and the National Science Education Standards for prospectitive 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.  Req. CURRENT CURRICULUM OUTLINE  English EN 1103 English Composition I or equivalent (C or better) EN 1113 English Composition I or equivalent (C or better) EN 1113 English Composition I or equivalent (C or better) Fine Arts (General Education):  Altural Sciences (see content area)  Math: Math: MA 1713 Calculus I 3 MA 1713 Calculus I 3 ST 3123 Introduction to Statistical Inference Humanities (General Education):  Altural Sciences (Gen Ed): Major Core Courses EPY 3143 Human Dev& Learning EDX 3213 Exceptional Child/Youth 3 EDF 4243 Plan for Diverse Learners 1 EDS 3485 Reaching Intern in Sec. Ed. EDS 4853 Methods of Teaching Science EDS 4853 Secondary Science EDS 4853 Secondary Science EDS 4853 Secondary Science EDS 4853 Secondary Intern in Sec. EDS 4853 Secondary Intern in Sec. EDS 4853 Secondary Intern in Sec. Education Standards for Teachers at the secomdary tevel (grades 7-12). Courses designed for nonscience majors will not count toward a degree in any area of science education.  Req. PROPOSED CURRICULUM OUTLINE  English En 1103 English Composition I or equivalent (C or better)  English En 1103 English Composition I or equivalent (C or better)  English En 1103 English Composition I or equivalent (C or better)  English En 1103 English Composition I or equivalent (C or better)  English En 1103 English Composition I or equivalent (C or better)  English En 1103 English Composition I or equivalent (C or better)  English En 1103 English Composition I or equivalent (C or better)  English En 1103 English Composition I or equivalent (C or better)  English En 1103 English Composition I or equivalent (C or better)  English En 1103 English Compositi	We have a compared to the control of			
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RDG 3513 Developing Reading Strategies in Secondary School Content Areas EDF 3333 Social Foundations EDF 3333 Social Foundations EDS 3653 Secondary Science Education EDS 4873 Seminar in Managing the Secondary Classroom EDS 4886 Teaching Intern in Sec.  EDS 4403/6403 Evaluation of Learning in Secondary Schools  3  EDS 4886 Teaching Intern in Sec.				3
Strategies in Secondary School Content Areas EDF 3333 Social Foundations EDF 3333 Social Foundations EDF 3333 Social Foundations EDF 3653 Secondary Science Education EDF 3653 Methods of Teaching Science EDF 3653 Secondary Science EDF 3653 Secondary Science EDF 3653 Secondary Science EDF 3653 Secondary Science EDF 3653 Methods of Teaching Science EDF 3653 Secondary Classroom  EDF 3653 Secondary Science EDF 3653 Methods of Teaching Intern in Sec. Ed. EDF 3653 Methods of Teaching Intern in Sec. EDF 3653 Methods of Teaching Intern in Sec.				
Content Areas  EDF 3333 Social Foundations  EDS 3411 Practicum in Secondary  Ed.  EDS 3653 Secondary Science Education  EDS 4873 Seminar in Managing the  EDS 4886 Teaching Intern in Sec.				100
EDF 3333 Social Foundations  EDS 3411 Practicum in Secondary  Ed.  EDS 3653 Secondary Science  Education  EDS 4653 Methods of Teaching Science  EDS 4886 Teaching Intern in Sec. Ed.  EDS 34863 Methods of Teaching  EDS 4896 Teaching Intern in Sec. Ed.  EDS 3413 Principles of Secondary  Education  EDS 4873 Seminar in Managing the Science  EDS 3413 Principles of Secondary  Education  EDS 4403/6403 Evaluation of Learning in Secondary Schools  3  EDS 4886 Teaching Intern in Sec.		3		
EDS 3411 Practicum in Secondary Ed.  EDS 3653 Secondary Science Education EDS 4653 Methods of Teaching Science EDS 4873 Seminar in Managing the Secondary Classroom EDS 4886 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education EDS 4873 Seminar in Managing the Secondary Classroom EDS 4873 Seminar in Managing the Secondary Secondary Education EDS 4403/6403 Evaluation of Learning in Secondary Schools  3 EDS 4873 Seminar in Managing the Secondary Classroom 3 EDS 4886 Teaching Intern in Sec. 4 EDS 4886 Teaching Intern in Sec. 5 EDS 4886 Teaching Intern in Sec. 5 EDS 4886 Teaching Intern in Sec. 6 EDS 4886 Teaching Intern in Sec. 7 EDS 4886 Teaching Intern in Sec. 8 EDS 4886 Teaching Intern in Sec.			•	
Ed.  EDS 3653 Secondary Science Education EDS 4653 Methods of Teaching Science EDS 4873 Seminar in Managing the Secondary Classroom  EDS 4886 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education EDS 4403/6403 Evaluation of Learning in Secondary Schools  3 EDS 4886 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education EDS 4403/6403 Evaluation of Learning in Secondary Schools  3 EDS 4886 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education Secondary Schools  3 EDS 4886 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education Secondary Schools				3
EDS 3653 Secondary Science Education EDS 4653 Methods of Teaching Science EDS 4873 Seminar in Managing the Secondary Classroom EDS 4886 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education EDS 4403/6403 Evaluation of Learning in Secondary Schools  EDS 4886 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education EDS 4403/6403 Evaluation of Learning in Secondary Schools  3		3	EDS 4873 Seminar in Managing the	
Education EDS 4653 Methods of Teaching Science EDS 4873 Seminar in Managing the Secondary Classroom EDS 4886 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education EDS 4403/6403 Evaluation of Learning in Secondary Schools  3 EDS 4886 Teaching Intern in Sec. Ed. EDS 3413 Principles of Secondary Education EDS 4403/6403 Evaluation of Learning in Secondary Schools 3			Secondary Classroom	3
EDS 4653 Methods of Teaching Science EDS 4873 Seminar in Managing the Secondary Classroom EDS 4886 Teaching Intern in Sec.  6 3 EDS 3413 Principles of Secondary Education 5 EDS 4403/6403 Evaluation of Learning in Secondary Schools 3	EDS 3653 Secondary Science	3	EDS 4886 Teaching Intern in Sec. Ed.	6
Science EDS 4873 Seminar in Managing the Secondary Classroom EDS 4886 Teaching Intern in Sec.  Education EDS 4403/6403 Evaluation of Learning in Secondary Schools  3 EDS 4886 Teaching Intern in Sec.	Education	6	EDS 4896 Teaching Intern in Sec. Ed.	6
EDS 4873 Seminar in Managing the Secondary Classroom in Secondary Schools  EDS 4886 Teaching Intern in Sec.  EDS 4403/6403 Evaluation of Learning in Secondary Schools 3	EDS 4653 Methods of Teaching	N. 100	EDS 3413 Principles of Secondary	
Secondary Classroom in Secondary Schools 3  EDS 4886 Teaching Intern in Sec.	Science	3	Education	3
EDS 4886 Teaching Intern in Sec.	EDS 4873 Seminar in Managing the		EDS 4403/6403 Evaluation of Learning	
	Secondary Classroom		in Secondary Schools	3
	EDS 4886 Teaching Intern in Sec.			
Ed.	Ed.			

EDC 4906 Tacabing Intern in Coa			
EDS 4896 Teaching Intern in Sec.			
EPY 3253 Evaluating Learning		Concentration Courses	
Concentration Courses		Concentration Courses	
Choose 57 hours of approved		Choose 57 hours of approved coursework	
coursework within concentration		within concentration area. Must include the	
area. Must include the required		required subject area core.	
subject area core.		B	
D		Required Subject area core	
Required Subject area core		PH 1063 Descriptive Astronomy	
PH 1063 Descriptive Astronomy		PH 2213 Physics I	
PH 2213 Physics I	28	PH 2223 Physics II	28
PH 2223 Physics II		PH 2233 Physics III	
PH 2233 Physics III		PH 4213 Intermediate Mechanics I	
PH 4213 Intermediate Mechanics I		PH 4143 Intermediate Laboratory	
PH 4143 Intermediate Laboratory		CH 1213 Chemistry I	
CH 1213 Chemistry I		CH 1211 Investigations in Chemistry I	
CH 1211 Investigations in Chemistry I		MA 1723 Calculus II	
MA 1723 Calculus II		MA 2733 Calculus III	
MA 2733 Calculus III			
		Electives approved by advisor that result in	
Electives approved by advisor that	29	a double major or an additional area of	29
result in a double major or an		licensure.	
additional area of licensure.			
Oral Communication Requirement		Oral Communication Requirement	
Satisfied by the successful		Satisfied by the successful completion of	
completion of EDF 4243 Plan for		EDF 4243 Plan for Diverse Learners	
Diverse Learners		Υ	
Computer Literacy Requirement		Computer Literacy Requirement	
Satisfied by the successful		Satisfied by the successful completion of	
completion of EDF 4243 Plan for		EDF 4243 Plan for Diverse Learners	
Diverse Learners			
Writing Requirement		Writing Requirement	
Satisfied by the successful		Satisfied by the successful completion of	
completion of EDF 4243 Plan for		EDF 4243 Plan for Diverse Learners and	
Diverse Learners and EDS 3653		EDS 3653 Secondary Science Education	
Secondary Science Education			
Total Hours	124	Total Hours	124
SOCIAL STUDIES		SOCIAL STUDIES CONCENTRATION	
CONCENTRATION DESCRIPTION		DESCRIPTION	
The Social Studies Education		The Social Studies Education Curriculum	
Curriculum is designed in accordance		is designed in accordance with the	
with the recommendations and to		recommendations and to meet the	
meet the standards of the National		standards of the National Council for the	
Council for the Social Studies for		Social Studies for prospective teachers at	
prospective teachers at the		the secondary level (grades 7-12).	
secondary level (grades 7-12).			
CURRENT CURRICULUM OUTLINE	Req.	PROPOSED CURRICULUM OUTLINE	Req.

	Hours		Hour
English	-	English	S
English EN 1103 English Composition I	3	English EN 1103 English Composition I	3
or equivalent (C or better)	3	or equivalent (C or better)	3
EN 1113 English Composition II or	3	EN 1113 English Composition II or	3
equivalent (C or better)	3	equivalent (C or better)	3
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Mathematics	3	Mathematics	3
MA 1313 College Algebra	3	MA 1313 College Algebra	3
Any MA above MA 1313	3	Any MA above MA 1313	3
Ally IVIA above IVIA 1313	3	Any MA above MA 1313	3
Natural Sciences (must include 2		Natural Sciences (must include 2 labs)	
labs)	3	Biological Science with lab	3
Biological Science with lab	3	Physical Science with lab	3
Physical Science with lab			
Humanities		Humanities	
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
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Social/Behavioral Sciences (Gen Ed):		Social/Behavioral Sciences (Gen Ed):	
PSY 1013 General Psychology	3	PSY 1013 General Psychology	3
SO 1003 Introduction to Sociology	3	SO 1003 Introduction to Sociology	3
Science of Math		Science of Math	
Approved science (no lab required) or	3	Approved science (no lab required) or	3
Math		Math	
Major Core Courses		Major Core Courses	
EDE 2000 Ossial Esperalations		EDE 2000 O sist Essentations	
EDF 3333 Social Foundations	3	EDF 3333 Social Foundations	3
EDS 3411 Practicum in Secondary	1	EDX 3213 Exceptional Child/Youth	3
EDV 2212 Expontional Child Wouth	3	EPY 3143 Human Dev& Learning	3
EDX 3213 Exceptional Child/Youth	3	RDG 3513 Developing Reading Strategies	3
EPY 3143 Human Dev& Learning	3	in Secondary School Content Areas	
EPY 3253 Evaluating Learning		EDS 3643 Secondary Social Studies	3
RDG 3513 Developing Reading	3	Education	
Strategies in Secondary School		EDS 4643 Methods of Teaching Social	3
Content Areas		Studies	3
EDS 3643 Secondary Social Studies	3	EDS 4873 Seminar in Managing the	6
Education	2	EDS 4886 Teaching Intern in Sec. Ed.	6
EDS 4643 Methods of Teaching	3	EDS 4896 Teaching Intern in Sec. Ed.	
Social Studies	3	EDS 3413 Principles of Secondary	3
EDS 4873 Seminar in Managing the	6	Education	
EDS 4886 Teaching Intern in Sec.	6	EDS 4403/6403 Evaluation of Learning	3
Ed.		in Secondary Schools	
EDS 4896 Teaching Intern in Sec.			
Ed.			
		L	4

Concentration Courses		Concentration Courses	T
Concentration Courses		Concentration Courses	
EC 2113 Principles of	3	EC 2113 Principles of Macroeconomics	3
Macroeconomics	3	EC 2123 Principles of Microeconomics	3
EC 2123 Principles of	3	GR 1114 Elements of Physical	3
Microeconomics	3	Geography(or approved 3000 or 4000	3
GR 1114 Elements of Physical	3	level GR elective)	3
Geography (or approved 3000 or	3	HI 1063 Early U.S. History	3
4000 level GR elective)	3	HI 1073 Modern U.S. History	3
HI 1063 Early U.S. History	3	HI 1163 World History Before 1500	3
HI 1073 Modern U.S. History	3	HI 1173 World History Since 1500	3
HI 1163 World History Before 1500	3	HI 3333 Mississippi History	3
HI 1173 World History Since 1500		HI 4403 The Ancient Near East or HI 4903	
HI 3333 Mississippi History	3	The Far East	3
HI 4403 The Ancient Near East or HI	3	PS 1113 American Government	3
4903 The Far East		PS 1513 Comparative Government or PS	
PS 1113 American Government		1313 Introduction to International	
PS 1513 Comparative Government or		Relations or PS 2703 Introduction to	
PS 1313 Introduction to International	3	Public Policy	3
Relations or PS 2703 Introduction to	3	3000 or 4000 level history elective	3
Public Policy	3	3000 or 4000 level HI/PS/EC/GR 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		3000 or 4000 level HI/PS/EC/GR/PSY/SO	
elective	3	elective	3
3000 or 4000 level HI/PS/EC/GR			
elective			
3000 or 4000 level			
HI/PS/EC/GR/PSY/SO			
elective			
Oral Communication Requirement		Oral Communication Requirement	
CO 1003 Fundamentals of Public	3	CO 1003 Fundamentals of Public	3
Speaking		Speaking	
Computer Literacy Requirement		Computer Literacy Requirement	
TKT 1273 or BIS 1012 or BS 1013 or		TKT 1273 <u>or</u> BIS 1012 <u>or</u> BS 1013 <u>or</u> CS	
CS 1013		1013	
	3		3
Writing Requirement	9	Writing Requirement	
Satisfied by successful completion of	2	Satisfied by successful completion of EDS	3
	3	Cationed by successful completion of LDG	_
EDS 4643 Total Hours	3	4643	

# **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



**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 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

Reggy 5. Hope

10-3-19

10-3-19

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:	Date:
Department Head	3/5/2020
Chair, College or School Curriculum Committee	April 25, 2020
	04/27/2020
Dean of College or School	
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council (if applicable)	
and the second contract of the second	
Chair, Deans Council	

#### 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

**Secondary Schools** 

**Teaching** 

Curriculum

**Total Hours** 

EDS 8886 Dimensions of Learning I

EDS 8896 Dimensions of Learning II

EDS 8613 Middle and Secondary School

EDS 66x3 Methods in Secondary

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Master of Sciences		Degree: Master of Sciences	
Major: Master of Arts in Teaching – Secor	ndary	Major: Master of Arts in Teaching – Second	ary
Education		Education	
The MATS program is an alternate route		The MATS program is an alternate route se	condary
secondary licensure program of study tha	t consists	licensure program of study that consists of	30
of 36 semester hours of graduate-level		semester hours of graduate-level coursewo	
coursework. It is designed for a candidate		designed for a candidate with a bachelor's	•
bachelor's degree in a content discipline		in a content discipline who wishes to prepa	
wishes to prepare for a career as a teache addition to the criteria for admission to a		career as a teacher. All admitted MATS stu	
of Science degree program (with the exce		applying for a teaching license, must have the ACT with a minimum composite score	
a teaching license), MATS candidates mus		have passing Praxis Core. Passing scores, a	
the ACT or Praxis Core and Praxis II-Specia		MDE, on the Praxis II-Specialty Area Test a	
Test (in the licensure area) and have comp		required for licensure. MATS students must also	
hours of coursework in a College of Educa		pass a certified background check prior to	
secondary content area of licensure. MATS		admission.	
students must also pass a certified background			
check prior to admission.		Students in the MATS will complete the	
		comprehensive examination in the final sem	
Students in the MATS will complete the		or final 6 hours of enrollment by registering	
comprehensive examination in the final se		passing the Praxis Principles of Learning an	d
or final 6 hours of enrollment by registering		Teaching (PLT) examination through ETS.	
Assessment examination through ETS.	and passing the appropriate Praxis Content Area		
	Req.		Req.
CURRENT CURRICULUM OUTLINE	Hours	PROPOSED CURRICULUM OUTLINE	Hours
EDS 8243 Advanced Planning and		EDS 8243 Advanced Planning and	
Managing Learning	3	Managing Learning	3
EPY 8473 Middle Level Assessment and		EDS 6403 Evaluation of Secondary	3
Evaluation	3	Schools	
EDS 8623 Principles of Effective		EDS 8623 Principles of Effective Instruction	
Instruction in Secondary Schools	3	in Secondary Schools	3
EDX 8173 Special Education in the		EDX 8173 Special Education in the Regular	
Regular Classroom	3	Classroom	3
EDS 8103 Advanced Methodologies in		EDS 8103 Advanced Methodologies in	
Middle and Secondary Education	3	Middle and Secondary Education	3
RDG 8653 Teaching Reading in the		RDG 8653 Teaching Reading in the	3

3

6

3

3

6

36

**Secondary Schools** 

Curriculum

**Total Hours** 

EDS 8886 Dimensions of Learning I

EDS 66x3 Methods in Secondary Teaching

EDS 8613 Middle and Secondary School

6

3

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

#### University of Mississippi

- 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

#### **William Carey 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

# Mississippi Valley 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

#### 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

1579.



#### **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

Dr. Dana Franz

Dr. Dogge Discouran

Dr. Lindon Ratliff

Dr. Ryan Walker

Dr. Linda Cornellous, Department Head Curriculum, Instruction and Special Education Date

2/18/2021)
Date

2-18-20

2/18/2020 Date

2/20/2020

2/2//2020



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.

Kimberly Hall

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	<b>Department:</b> Aerospace Engineering
Contact Person: Machaunda Bush Nature of Change: Curriculum Change Current Degree Program Name: Aeros	Mail Stop: 9549 E-mail: mb2@msstate.edu  Date Initiated: 02/24/2020 Effective Date: 8/1/2020  pace Engineering
Major: Aerospace Engineering Conc	entration: 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:	
Davy M BrEUK	23 April 2020	
Departmen (Head (Davy Belk)		
	April 27, 2020	
Chair, College or School Curriculum Committee (Andy Perkins)		
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: REOUIRED 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		Degree: Bachelor of Science	
Major: Aerospace Engineering		Major: Aerospace Engineering	
Concentration: Aeronautics		Concentration: Aeronautics	
CURRENT CURRICULUM	Require	PROPOSED CURRICULUM	Require
OUTLINE	d Hours	OUTLINE	d Hours
ASE 1013 Introduction to		ASE 1013 Introduction to	
Aerospace Engineering	3	Aerospace Engineering	3
CH 1211 Investigation in	1	CH 1211 Investigation in	1
Chemistry	3	Chemistry	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	3	MA 1713 Calculus I	3
Humanities Elective		Humanities Elective	
			3
ASE 2013 Astronautics,	3	EG 1143 Graph Communication	3
Propulsion and Structures	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		ASE 2113 Aircraft and Spacecraft	
Performance	3	Performance	3
EM 2413 Engineering Mechanics	3	EM 2413 Engineering Mechanics	3
I	3	1	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  EM 2433 Engineering Mechanics II  EM 3213 Mechanics of Materials MA 2743 Calculus IV	3 3 3 3 3	MA 3113 Linear Algebra Social/Behav. Sci. Elective  EM 2433 Engineering Mechanics II  EM 3213 Mechanics of Materials MA 2743 Calculus IV	3 3 3 3 3 3
MA 3253 Differential Equations I PH 2233 Physics III Fine Arts Elective	3	MA 3253 Differential Equations I Humanities Elective	3
ASE 3233 Aero Structural Analysis I ASE 3333 Aerothermodynamics	3 3	ASE 3233 Aero Structural Analysis I ASE 3333 Aerothermodynamics	3 3
ECE 3413 Introduction to	3	ECE 3413 Introduction to	3
Electronic Circuits	3	Electronic Circuits	3
EM 3313 Fluid Mechanics EM 3413 Vibrations	3	EM 3313 Fluid Mechanics EM 3413 Vibrations	3
	3		3
ASE 3123 Aircraft Attitude		ASE 3123 Aircraft Attitude	
Dynamics	3	Dynamics	3
ASE 3243 Aerospace Structural	3	ASE 3243 Aerospace Structural	3
Analysis II	3	Analysis II	3
ASE 3313 Incompress.	3	ASE 3313 Incompress.	3
Aerodynamics	3	Aerodynamic	3
GE 3513 Technical Writing		GE 3513 Technical Writing	
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 4513 Aircraft Design I	3	ASE 4513 Aircraft Design I	3
ASE 4623 Aerospace Structural		ASE 4623 Aerospace Structural	
Design	3	Design	3
	1		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	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

# (B) Astronautics Curriculum

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Bachelor of Science		Degree: Bachelor of Science	
Major: Aerospace Engineering		Major: Aerospace Engineering	
Concentration: Astronautics		Concentration: Astronautics	
CURRENT CURRICULUM	Require	PROPOSED CURRICULUM	Require
OUTLINE	d Hours	OUTLINE	d Hours
ASE 1013 Introduction to	3	ASE 1013 Introduction to	3
Aerospace	1	Aerospace	1
CH 1211 Investigation in	3	CH 1211 Investigation in	3
Chemistry	3	Chemistry	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,	3	EG 1143 Graph Communication	3
Propulsion and Structures	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		ASE 2113 Aircraft and Spacecraft	
Performance	3	Performance	3
EM 2413 Engineering Mechanics	3	EM 2413 Engineering Mechanics	3
I	3	1	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	3	EM 2433 Engineering Mechanics	3
	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	3	ASE 3233 Aero Structural	3
Analysis I	3	Analysis I	3
,a., o.o i		7 11 14 17 010 1	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.

<b>ASE Undergraduate Committee</b>	Signature	Date
Adrian Sescu (chair)	Adrian Sescu  Digitally signed by Adrian Sescu Dix: cn=Adrian Sescu, o, ou, email=-sescu@ae.msstate.edu, c=US Date: 2020.03.31 11:27:14 -05'00'	
Rani Sullivan	Rani Warsi Sullivan Date: 2020.03.31 13:23:27 -05'00'	
Mark Janus	J. 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	Yang Cheng	03/31/2020
Carmen Sescu	Digitally signed by Carmen Sescu DN: cn=Carmen Sescu, o=Aerospace Engineering, ou, email=c33613@msstate.edu, c=US Date: 2020.03.31 14:23:50 -05'00'	

# 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