



MISSISSIPPI STATE UNIVERSITYTM

UNIVERSITY COMMITTEE ON COURSES AND CURRICULA

A MEMORANDUM

DATE: September 8, 2015
TO: UCCC Memhers
FROM: Kirk Swortzel, Chair
SUBJECT: September 18, 2015 Meeting

Enclosed are the minutes from the meeting on April 30, 2015 and the agenda and course proposals for the meeting on **Friday, September 18, 2015 at 1:30 p.m.** The September meeting will be held in Room 324 of the Student Union. Please contact the UCCC office if you are unable to attend.

Thank you.

Enclosures: April 30, 2015 Meeting Minutes
Course/Curriculum Proposals

AGENDA
UNIVERSITY COMMITTEE ON COURSES AND CURRICULA
September 18, 2015

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

ARTS AND SCIENCES

Addition	<u>AAS 3193</u>	African Cultures
Addition	<u>AN 3193</u>	African Cultures

EDUCATION

Addition	<u>MU 2681</u>	Opera Workshop
Addition	<u>MU 3433</u>	Piano Literature
Addition	<u>PE 4533/6533</u>	Developing Coaching Expertise
Deletion	<u>TKB 1123</u>	Document Formatting/Information Processing
Deletion	<u>TKB 1312</u>	Information Resource Management
Modification	<u>TKB 2123</u>	Database Management (already Campus 5)
Modification	<u>TKB 2133</u>	Spreadsheet Design and Analysis (already Campus 5)
Modification	<u>TKB 4543</u> /6543	Information Processing (already Campus 5)
Deletion	<u>TKT 4153</u> /6153	Method of Teaching Economics/Business Pathways
Addition +Distance	<u>TKT 4203</u>	Emerging Technologies
Modification	<u>TKT 4213</u>	Methods of Teaching Business Subjects (already Campus 5)
Modification	<u>TKT 4463</u>	Methods of Teaching Business Technology (already Campus 5)
Modification	<u>TKT 4753</u> /6753	Media for Presentations, Instruction and Gaming (already Campus 5)

ENGINEERING

+Distance	<u>ECE 6613</u>	Power Transmission Systems
Addition	<u>ME 3163</u>	Introduction to Design and Finite Element Analysis
+Distance	<u>ME 8011</u>	Graduate Seminar

VETERINARY SCIENCE

Addition	<u>CVM 5021</u>	Professional Development II
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4. Degree proposals by college/school

AGRICULTURE AND LIFE SCIENCES

Modification	MABM	Agribusiness Management
Modification	Ph.D.	Agricultural Sciences/Engineering Technology

ARTS AND SCIENCES

Modification	BA	English
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ENGINEERING

Modification	BS	Industrial Engineering
Addition	Minor	Industrial Engineering
Modification	BS	Mechanical Engineering

FOREST RESOURCES

Name Change	MS	Forest Products to Sustainable Bioproducts
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University Committee on Courses and Curricula
Mississippi State University
April 30, 2015

Present: Amy Adkerson, Kari Babski-Reeves, Russell Carr, Mike Cox, Amy Crumpton, Dana Franz, Robert Frey, Robert Harland, Kevin Hunt, Skip Jack, Mitzy Johnson, Pat Matthes, Lynda Moore, Rob Moore, Bob Otondo, Emily Owen, Tommy Parker, Andy Perkins, Melinda Pilkinton, John Riggins, John Rigsby, Kathy Sherman-Morris, Jack Smith, Barry Stewart, Kirk Swortzel, Jenny Turner, Robert Wolverton, Arnelle Woods, Chien Yu

Excused: Melinda Pilkinton, Johnny Richwine, Pam Sullivan, Steve Taylor, Tom White

Proxy: Stephanie Bennett for Kelly Moser

Guests: Salvador Bartera, John Brocato, Mark Clark, Jim Fowler, Sally Gray, Jimmy Hardin, Richard Human, Barry Kopetz, Sang Joon Lee, Wesley McGrew, Donna Reese, John Rodgers, Rosangela Sebba, Quisto Settle, Chander Sharma, James Sobaskie, Justin Taylor, Michael Valentine, Tara Warfield, Holly Wiley, Jinwn Ye,

Swortzel called the meeting to order at 9:35 a.m. on Thursday, April 30, 2015 in Room 2200 of the Center for Advanced Vehicular Systems in the Research Park. Swortzel announced he appointed Dana Franz, John Rigsby, and Mike Cox to a subcommittee to revise the UCCC Guide and Format, and they have had their initial meeting. Franz will serve as chair. Swortzel also announced the special topics proposals will be submitted as eforms beginning in the fall.

Sherman-Morris moved to approve the March 20, 2015 minutes. Otondo seconded the motion. The March 20, 2015 minutes were approved unanimously.

Cox moved to approve the additions of AIS 3600 Internship-Agricultural Communications, AIS 4223 Communications Strategies in Agriculture and Life Sciences, AIS 4803 Contemporary Issues in Agriculture and Life Sciences, and the modification of the Bachelor of Science in Agricultural Information Science/Teaching and Agricultural Leadership. Rigsby seconded the motion. Swortzel presented letters of support for the program proposal from the Department of Political Science and Public Administration and the Department of Communication. Committee members questioned whether the internship under AIS 3600 is repeatable and how many credit hours would be received for the internship. Dr. Quisto Settle appeared in support of the proposals. Dr. Settle said the internship for AIS 3600 would not be repeatable and would be a three hour internship. The committee pointed out the proposal for AIS 3600 needs to be revised to be a three hour course, the course number needs to be revised to reflect the credit hours change, and the program proposal needs to be revised to reflect the new course number. Crumpton moved to pass AIS 3600, AIS 4223, AIS 4803, and the modification of the Bachelor of Science in Agricultural Information Science/Teaching and Agricultural Leadership contingent upon the above concerns being addressed. Stewart seconded the motion. The motion to pass the proposals contingent was approved unanimously.

Swortzel announced EPP 4162 Advanced Fungal Taxonomy-Fungi Ascomycetes, EPP 4172 Advanced Fungal Taxonomy-Fleshy Basidiomycetes, and EPP 4182 Advanced Fungal Taxonomy-Oomycetes and Zygomycetes were previously deleted in 2013 during a purge by the Registrar's Office of inactive courses. The online course proposal system did not recognize the courses as deleted and accepted the proposals to delete the courses.

Riggins moved to approve the deletions of EPP 4152 Advanced Fungal Taxonomy-Fungi Imperfecti, EPP 6152 Advanced Fungal Taxonomy-Fungi Imperfecti, EPP 6162 Advanced Fungal Taxonomy-Ascomycetes, EPP 6172 Advanced Fungal Taxonomy-Fleshy Basidiomycetes, and EPP 6182 Advanced Fungal Taxonomy-Oomycetes and Zygomycetes. Crumpton seconded the motion. Committee members pointed out that some of the courses are still included in degree programs, so a degree proposal needs to accompany the course deletion proposals. Stewart moved to table EPP 4152, EPP 6152, EPP 6162, EPP 6172, and EPP 6182. Carr seconded the motion. The motion to table was approved with one committee member abstaining.

Stewart moved to approve the additions of PO 4033 Diseases of Poultry and PO 8011 Graduate Seminar in Poultry Science. Crumpton seconded the motion. A committee member was concerned that the letters of support were not stronger. The motion to approve the additions of PO 4033 and PO 8011 was approved unanimously.

Crumpton moved to approve the modification of ACR 3713 Assemblages. Sherman-Morris seconded the motion. Committee members were concerned the contact hours on the course outline were not sufficient for a lecture/lab. Professor Justin Taylor appeared in support of the proposal. Professor Taylor indicated the wrong course outline is attached to the proposal, and the correct course outline with the correct contact hours can be loaded. Carr moved to pass ACR 3713 contingent upon the above concern being addressed. Rigsby seconded the motion. The motion to pass ACR 3713 contingent was approved unanimously.

Crumpton moved to approve the addition of ID 2664 Textiles for Interiors, the modification of ID 3611 Career and Portfolio Development, the modification of ID 4663 Professional Practice for Interior Design, and the modification of the Bachelor of Science in Interior Design. Rigsby seconded the motion. Committee members were concerned the methods of evaluation on the proposal and the syllabus do not match for ID 4663, and the number of credit hours for some classes are entered incorrectly on the degree modification. Cox moved to pass ID 2664, ID 3611, ID 4663, and the modification of the Bachelor of Science in Interior Design contingent upon the above concerns being addressed. Babski-Reeves seconded the motion. The motion to pass ID 2664, ID 3611, ID 4663, and the modification of the Bachelor of Science in Interior Design contingent was approved unanimously.

Carr moved to approve the addition of general education designation to AAS 1063 Introduction to African American Studies. Sherman-Morris seconded the motion. The motion to approve the addition of the general education designation to AAS 1063 was approved unanimously.

Rigsby moved to approve the addition of EN 3803 Intermediate Poetry Writing. Crumpton seconded the motion. Committee members discussed whether EN 3803 would be a prerequisite for other classes. The motion to approve the addition of EN 3893 was approved unanimously.

Harland moved to approve the addition of FL 4133 Roman Civilization, the addition of FL 8693 Advanced Roman Pedagogy, the addition of EDS 8693 Advanced Foreign Language Pedagogy, the modification of

the Bachelor of Art in Foreign Languages/French, and the modification of the Bachelor of Art in Foreign Languages/German. Rigsby seconded the motion. Dr. Salvador Bartera and Dr. Sally Gray appeared in support of the proposals. Committee members were concerned that there is a typo in the course description for FL 4133, the excused absences outlined in the syllabus for FL 4133 need to be in compliance with AOP 12.09, the program modifications for German and French also impact the Spanish program but a program modification proposal for Spanish is not included on this agenda, the programs may want to move to 124 credit hours to assist transfer students, the math requirements are not listed on the proposal, and the introduction refers to a minor in Classics that has not been approved yet. Stewart moved to table the modification of the Bachelor of Art in Foreign Languages/French, and the modification of the Bachelor of Art in Foreign Languages/German. Carr seconded the motion. The motion to table the modification of the Bachelor of Art in Foreign Languages/French and the modification of the Bachelor of Art in Foreign Languages/German was approved unanimously. The Committee then voted unanimously to approve the addition of FL 4133 Roman Civilization, the addition of FL 8693 Advanced Roman Pedagogy, and EDS 8693 Advanced Foreign Language Pedagogy.

Crumpton moved to approve the new concentration of Classical Languages and Literatures to the Foreign Language major. Babski-Reeves seconded the motion. Dr. Mark Clark appeared in support of the proposal. Committee members were concerned the introduction refers to a minor in Classics that has not been approved yet, six hours of social science general education needs to be included in the proposal, and the program may want to move to 124 credit hours to assist transfer students. Rigsby moved to table the program proposal. Carr seconded the motion. The motion to table was approved unanimously.

Carr moved to approve the addition of PH 8883 Many Body Theory. Sherman-Morris seconded the motion. The motion to approve the addition of PH 8883 Many Body Theory was approved unanimously.

Rigsby moved to approve the modification and addition of distance education to PSY 3413 Human Sexual Behavior, and the addition of distance education to PSY 4223 Drug Use and Abuse. Crumpton seconded the motion. The motion to approve passed unanimously.

Rigsby moved to approve the addition of an undergraduate minor in Middle Eastern Studies. Carr seconded the motion. The motion to approve passed unanimously.

The committee recessed for lunch.

Rigsby moved to approve the modification of the Bachelor of Science in Industrial and Systems Engineering and the modification of the Bachelor of Science in Computer Science. Perkins seconded the motion. The motion to approve the modification of the Bachelor of Science in Industrial and Systems Engineering was approved unanimously.

Babski-Reeves moved to approve the modification to the Master of Science in Electrical and Computer Engineering (Campus 1 and 5). Perkins seconded the motion. The motion to approve the modification to the Master of Science in Electrical and Computer Engineering (Campus 1 and 5) was approved unanimously.

Babski-Reeves moved to approve the addition of the Graduate Certificate in Cyber Operations/Computer and Science Engineering. Crumpton seconded the motion. Dr. Wesley McGrew and Dr. Dave Dampier appeared in support of the proposal. Committee members had questions about

why a certificate is being offered instead of a minor. Dr. Dampier responded that a minor may eventually be added, but new standards will have to be established for a minor. Policy also precludes having a minor in which a major is not already offered. The motion to approve the addition of the Graduate Certificate in Cyber Operations/Computer and Science Engineering passed unanimously.

Babski-Reeves moved to approve the addition of GE 6513 Engineering Writing and Presenting. Rigsby seconded the motion. Committee members discussed the letter of objection from one department head within the College of Engineering. Committee members also questioned whether the graduate faculty member proposed to teach the class has graduate status or a waiver. Committee members stipulated any approval to the addition of GE 6513 would be contingent upon the faculty member teaching the class having graduate faculty status. The motion to approve the addition of GE 6513 passed unanimously.

Franz moved to approve the addition of EP 8603 Disability, Physical Activity and Health, the modification of PE 1253 Methods of Teaching Lifetime Activities, the modification of PE 1263 Methods of Teaching Rhythms, and the modification of the Bachelor of Science in Physical Education and Coaching. Bennett seconded the motion. Committee members pointed out that the online system indicates PE 1253 and PE 1263 have been approved for the Meridian campus. A staff member from the Registrar's Office indicated the Meridian approval was carried over from Banner when there was a blanket approval for Meridian. Committee members pointed out that approval needs to be deleted. Committee members also pointed out that some of the letters of support were old. The motion to approve EP 8603, PE 1253, PE 1263, and the modification of the Bachelor of Science in Physical Education and Coach passed unanimously.

Rigsby moved to approve the addition, distance education designation, and general education designation for MU 1133 The History of Rock and Roll, the modification of MU 1141 Song Literature, the addition of MU 1151 Vocal Pedagogy, the modification of MU 2813 Music Theory IV, the modification of MU 3333 Orchestration, the modification of MU 4313 Form and Analysis, the modification of MUA 1010 Applied Piano-Piano Majors and Minors, the addition of MUA 1030 Applied Piano: Non-Music Majors, and the modification of the Bachelor of Music Education in Instrumental, Guitar, Keyboard, Vocal. Otondo seconded the motion. A staff member from the Registrar's Office indicated Banner does not have a way to restrict class registration based upon a minor. A committee member was concerned that the letters of support were not stronger. The motion was approved unanimously.

Yu moved to approve the addition of Maymester to TKT 4743/6743 Elements of Electronic Desktop Publishing. Sherman-Morris seconded the motion. Committee members discussed whether the Maymester lecture/lab would be in violation of a university AOP. The motion to approve the addition of Maymester to TKT 4743/6743 was approved unanimously.

Bennett moved to approve the modification of EPY 9723 Seminar in Contemporary Educational/School Psychology. Franz seconded the motion. The motion was approved unanimously.

Hunt moved to approve the deletion of the undergraduate certificate in Geospatial and Remote Sensing, the deletion of the graduate certificate in Geospatial and Remote Sensing, the addition of an undergraduate minor in Geospatial and Remote Sensing, and the addition of a graduate minor in Geospatial and Remote Sensing. Perkins seconded the motion. Committee members pointed out that there needs to be campus one (Starkville) and campus five (distance) signature cover sheets for each proposal. Currently, there are only campus one (Starkville) signature cover sheets. Franz moved to pass

the proposals contingent upon the above concern being addressed. Bennett seconded the motion. The motion to pass the proposals contingent upon the above concerns being address was approved unanimously.

Hunt moved to adjourn. Franz seconded the motion. The motion to adjourn was approved unanimously. The meeting was adjourned at 3:10 p.m.

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

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

Contact Person: Barry Barnett

Mail Stop: 9755

E-mail: bjb11@msstate.edu

Nature of Change: Modification

Date: 6/2015

Program will be offered at: Starkville (Campus 1)

Current Degree Program Name: Master

Effective Date: 6/2016

Major: Agribusiness Management

Concentration:

New Degree Program Name: Master

Major: Agribusiness Management

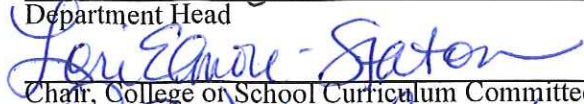
Concentration:

Summary of Proposed Changes:

The proposed change is to reduce the total required credit hours for the MABM program from 36 hours to 30 hours. This will be accomplished by reducing the required AEC elective hours from 12 credit hours to 9 credit hours and by eliminating AIS 8203 Advanced Communication in Agricultural Information Sciences as a required course (though students may take this course to satisfy the approved elective requirements).



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



SACS Letter Sent

1. CATALOG DESCRIPTION

The Master of Agribusiness Management (M.A.B.M.) program is an interdisciplinary degree between the College of Agriculture and Life Sciences and the College of Business and is administered by the Department of Agricultural Economics. The program is designed to prepare students for employment in the management of agribusiness.

2. GRADUATE DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Masters Major: Agribusiness Management Concentrations: NA		Degree: Masters Major: Agribusiness Management Concentrations: NA	
The Master of Agribusiness Management (M.A.B.M.) program is an interdisciplinary degree between the College of Agriculture and Life Sciences and the College of Business and is administered by the Department of Agricultural Economics. The program is designed to prepare students for employment in the management of agribusiness. <i>Graduate coursework may begin in any semester.</i> Additional information is found at the department's website, www.agecon.msstate.edu		The Master of Agribusiness Management (M.A.B.M.) program is an interdisciplinary degree between the College of Agriculture and Life Sciences and the College of Business and is administered by the Department of Agricultural Economics. The program is designed to prepare students for employment in the management of agribusiness. Additional information is found at the department's website, www.agecon.msstate.edu	
NA		NA	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
College Required Courses		College Required Courses	
Major Required Courses		Major Required Courses	
ACC 8213 Financial Statement and Management Accounting Report Analysis	3	ACC 8213 Financial Statement and Management Accounting Report Analysis	3
FIN 8113 Corporate Finance	3	FIN 8113 Corporate Finance	3
MKT 8153 Strategic Marketing Management	3	MKT 8153 Strategic Marketing Management	3
9 hours of approved electives. Student must receive credit for EC 8103 Economics for Managers if credit has not been received for EC 3123 Intermediate Microeconomics or an equivalent course at the undergraduate level.	9	9 hours of approved electives. Student must receive credit for EC 8103 Economics for Managers if credit has not been received for EC 3123 Intermediate Microeconomics or an equivalent course at the undergraduate level.	9
AEC 6530 Agribusiness Internship	3	AEC 6530 Agribusiness Internship	3
<i>12 hours of AEC graduate courses.</i> Student must receive credit for AEC 6113 Agribusiness Firm Management and AEC 6223 Applied Quantitative Analysis in	12	9 hours of AEC graduate courses. Student must receive credit for AEC 6113 Agribusiness Firm Management and AEC 6223 Applied Quantitative Analysis in	9

Agriculture if credit has not been received for these or equivalent courses at the undergraduate level. <i>AIS 8203 Advanced Communication in Agricultural Information Sciences</i>	3	Agriculture if credit has not been received for these or equivalent courses at the undergraduate level.	
Concentration 1. Courses		Concentration 1. Courses	
Concentration 2. Courses		Concentration 2. Courses	
Total Hours	36	Total Hours	30

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

Over time the credit hours required for the MABM program have increased, due, in part, to a number of required courses changing from 2 credit hours to 3 credit hours. Currently the MABM program requires 36 credit hours whereas the MBA program (the most similar program on campus) requires only 30 hours. The departmental curriculum committee proposes to reduce the total required credit hours for the MABM program from 36 hours to 30 hours. Masters of Agribusiness Management programs at other universities typically have credit hour requirements in the range of 30-31 credit hours (e.g.; Purdue University and the University of Florida both have 30 credit hour MABM programs; the University of Arkansas has a 31 credit hour MABM program).

More specifically, the departmental curriculum committee proposes to reduce the required AEC elective hours from 12 credit hours to 9 credit hours. In addition, AIS 8203 Advanced Communication in Agricultural Information Sciences is proposed to be dropped from the MABM required curriculum (though students may take this course to satisfy the approved elective requirements). The AIS course is being dropped as a requirement because incoming MABM students now participate in the MBA program's orientation week. During this week they receive intensive training in communications and presentation skills from business professionals.

In addition, the department requests that the phrase "Graduate coursework may begin in any semester" be removed from the MABM degree description. Beginning in summer 2016, the MBA program is moving to a "lockstep" format where all incoming students must begin the program during the first summer term. Since the MABM program includes several MBA courses, it will no longer be possible for students to begin MABM coursework in any semester. Details regarding exactly when MABM students will be able to begin the program (i.e., whether it will be possible for them to begin any time other than the first summer term) are still being worked out. Once final decisions are made, this information will be available on the department's website.

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

Yes, the department believes that these proposed changes will meet local, state, regional and national education and cultural needs while making the program requirements more consistent with similar programs across the United States.

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

No change. There will be no duplication in the System.

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

No change.

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

By bringing the program requirements in line with similar programs across the United States, the department should be able to attract more students to the MABM program. This should allow for an increase in the potential placement of graduates in MS, the Southeast, and the U.S.

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

No change is anticipated in the salaries of MABM graduates.

4. SUPPORT

See attached letters from the Department of Agricultural Economics Curriculum Committee.

5. PROPOSED 4-LETTER ABBREVIATION

No change.

6. EFFECTIVE DATE

June 2016.



MISSISSIPPI STATE UNIVERSITY™

Agricultural Economics Department
P.O. Box 5187
Mississippi State, MS 39762
(662) 325-2750
(662) 325-8777 (FAX)

May 27, 2015

Dr. Kirk Swortzel, Chair
University Committee on Courses and Curricula
P.O. Box 9731
Mississippi State MS 39762

Dear Dr. Swortzel,

The Agricultural Economics Department is submitting a degree program curriculum modification for the Master of Agribusiness Management (MABM) program. The proposed modification will reduce the total required credit hours for the MABM program from 36 hours to 30 hours. This will be accomplished by reducing the required AEC elective hours from 12 credit hours to 9 credit hours and by eliminating AIS 8203 Advanced Communication in Agricultural Information Sciences as a required course (though students may take this course to satisfy the approved elective requirements).

The Agricultural Economics Departmental Curriculum Committee unanimously supports the proposed curriculum modification. If you have any further questions, please feel free to contact me.

Sincerely,

Ardian Harri, Associate Professor
Chair, Curriculum Committee
Department of Agricultural Economics
325-5179
harri@agecon.msstate.edu



Kalyn Coatney
Assistant Professor
Curriculum Committee Member



Matt Interis
Assistant Professor
Curriculum Committee Member



Randy Little
Professor
Curriculum Committee Member



Barry Barnett
Professor
Curriculum Committee Member

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

College: Ag & Life Sciences

Department: Agricultural & Biological Engineering

Contact Person: Prem Parajuli

Mail Stop: 9632 **E-mail:** pparajuli@abe.msstate.edu

Nature of Change: Modify

Date Initiated: 02/19/15 **Effective Date:** 01/01/16

Degree to be offered at: Starkville, Campus 1

Current Degree Program Name: Doctor of Philosophy

Major: Agricultural Sciences

Concentration: Engineering Technology

New Degree Program Name:

Major:

Concentration:

Summary of Proposed Changes:

The Department of Agricultural & Biological Engineering would like to modify the number of PhD degree program hours from 80 hours to 68 hours past the Bachelor including 20 hrs of research. ST 8114 and ABE 7000 graduate courses are added and ABE 8331 is deleted as it is not offered. This effort is to make our PhD degree program a more research-based, standardized course work requirement for all students at the PhD level, and match our course work requirements with other Doctor of Philosophy degrees.

Approved:

Date: 8/26/2015

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



IHL Action Required



SACS Letter Sent

GRADUATE DEGREE MODIFICATION PROPOSAL

1. CATALOG DESCRIPTION

Please see outline below

2. CURRICULUM OUTLINE

CURRENT Degree Description	PROPOSED Degree Description
Degree: Doctor of Philosophy Major: Agricultural Sciences Concentrations: Engineering Technology	Degree: Doctor of Philosophy Major: Agricultural Sciences Concentrations: Engineering Technology
<p>Graduate study is offered in the Department of Agricultural and Biological Engineering leading to the degree of Master of Science in Agriculture with a concentration in Engineering Technology or a Doctor of Philosophy in Agricultural Sciences with a concentration in Engineering Technology.</p> <p>Admission Criteria—Prerequisites for admission into the graduate program include all the general requirements of the Office of Graduate Studies, completion of the GRE general test and the submission of scores, and identification of a departmental professor who is willing to serve as research director for the master's or Ph.D. project. International students must obtain a TOEFL score of 550 PBT (213 CBT or 79 iBT) or an IELTS (International English Language Testing Systems) score of 6.5 or higher. Exceptions to these requirements are considered on a case-by-case basis and require approval of the Department Chair.</p> <p>Provisional Admission—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.</p> <p>Academic Performance—Unsatisfactory performance in the graduate program in Agricultural and Biological Engineering is defined as any of the following:</p> <ul style="list-style-type: none"> • failure to maintain a 3.00 average GPA in attempted graduate courses after admission to the program; • a grade of U, D, or F in any one course; • more than two courses with a grade of C; • failure of the research defense; • unsatisfactory evaluation of a thesis; • or failure of a required component of the program of study. 	<p>Graduate study is offered in the Department of Agricultural and Biological Engineering leading to the degree of Master of Science in Agriculture with a concentration in Engineering Technology or a Doctor of Philosophy in Agricultural Sciences with a concentration in Engineering Technology.</p> <p>Admission Criteria—Prerequisites for admission into the graduate program include all the general requirements of the Office of Graduate Studies, completion of the GRE general test and the submission of scores, and identification of a departmental professor who is willing to serve as research director for the master's or Ph.D. project. International students must obtain a TOEFL score of 550 PBT (213 CBT or 79 iBT) or an IELTS (International English Language Testing Systems) score of 6.5 or higher. Exceptions to these requirements are considered on a case-by-case basis and require approval of the Department Chair.</p> <p>Provisional Admission—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University after admission to the program. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.</p> <p>Academic Performance—Unsatisfactory performance in the graduate program in Agricultural and Biological Engineering is defined as any of the following:</p> <ul style="list-style-type: none"> • failure to maintain a 3.00 average GPA in attempted graduate courses after admission to the program; • a grade of U, D, or F in any one course; • more than two courses with a grade of C; • failure of the research defense; • unsatisfactory evaluation of a thesis; • or failure of a required component of the program of study.

<p>Any one of these, or a combination of these, will constitute the basis for review for possible dismissal. The graduate coordinator will review the record, along with the student's graduate committee, and take a final course of action which will be immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department upon the student's appeal, the student can then submit a written appeal to the dean of the College of Agriculture and Life Sciences.</p> <p>Program of Study and Completion Requirements: Doctoral students are required to complete a minimum of 80 degree program hours including 20 hrs of coursework beyond the baccalaureate degree. A preliminary examination, a dissertation, and an oral examination in defense of the dissertation are required. Once the student's research plan has been established, the student is required to present his/her research plan to the faculty in the form of a departmental seminar.</p>		<p>Any one of these, or a combination of these, will constitute the basis for review for possible dismissal. The graduate coordinator will review the record, along with the student's graduate committee, and take a final course of action which will be immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department upon the student's appeal, the student can then submit a written appeal to the dean of the College of Agriculture and Life Sciences.</p> <p>Program of Study and Completion Requirements: Doctoral students are required to complete a minimum of 68 degree program hours including 20 hrs of research beyond the baccalaureate degree. A preliminary examination, a dissertation, and an oral examination in defense of the dissertation are required. Once the student's research plan has been established, the student is required to present his/her research plan to the faculty in the form of a departmental seminar.</p>	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
College Required Courses		College Required Courses	
Major Required Courses		Major Required Courses	
ABE XXXX coursework including select two of the following: ABE 8911 Agricultural & Biological Engineering Seminar ABE 8921 Agricultural & Biological Engineering Seminar	60	<i>PhD (beyond BS)</i> ABE 8911 or ABE 8921 (Agricultural & Biological Engineering Seminar)	48 2
ABE 8XXX 8000-level or higher (at least 50% of 60 hrs)		ABE 7000 or other ABE graduate courses	6
ABE 9000 Dissertation Research/Dissertation in Agricultural and Biological Engineering	20	ST 8114	4
		Other graduate course work (8000-level or higher: at least 50% of 48 hrs)	36
		ABE 9000 Dissertation Research	20
Total Hours	80	Total Hours	68

<p>Concentration 1. Courses</p> <p>Graduate Courses—Course prerequisites are noted in parentheses.</p> <p>ABE 6163 Agricultural Machinery Management. 3 hours</p> <p>ABE 6263 Soil and Water Management (ABE 2873). 3 hours</p> <p>ABE 6383 Building Construction (EG 1143). 3 hours</p> <p><i>ABE 6453 Cotton Ginning Systems and Management. 3 hours</i></p> <p>ABE 6473 Electrical Application (ABE 1863). 3 hours</p> <p>ABE 6483 Introduction to Remote Sensing. 3 hours</p> <p>ABE 6844 Sustainable Communities (same as LA 4844/6844). 3 hours.</p> <p>ABE 6990 Special Topics in Agricultural and Biological Engineering. 1-9 hours</p> <p>ABE 7000 Directed Individual Study. 1-6 hours</p> <p>ABE 8911 Agricultural and Biological Engineering Seminar. 1 hour</p> <p>ABE 8921 Agricultural and Biological Engineering Seminar. 1 hour</p> <p><i>ABE 8931 Agricultural and Biological Engineering Seminar. 1 hour</i></p> <p>ABE 8990 Special Topics in Agricultural and Biological Engineering. 1-9 hours</p> <p>ABE 9000 Research/Dissertation. Credit hours to be arranged; minimum of 20 hrs required for degree</p>		<p>Concentration 1. Courses</p> <p>Graduate Courses—Course prerequisites are noted in parentheses.</p> <p>ABE 6163 Agricultural Machinery Management. 3 hours</p> <p>ABE 6263 Soil and Water Management (ABE 2873). 3 hours</p> <p>ABE 6383 Building Construction (EG 1143). 3 hours</p> <p>ABE 6473 Electrical Application (ABE 1863). 3 hours</p> <p>ABE 6483 Introduction to Remote Sensing. 3 hours</p> <p>ABE 6844 Sustainable Communities (same as LA 4844/6844). 3 hours.</p> <p>ABE 6990 Special Topics in Agricultural and Biological Engineering. 1-6 hours</p> <p>ABE 7000 Directed Individual Study. 1-6 hours</p> <p>ABE 8911 Agricultural and Biological Engineering Seminar. 1 hour</p> <p>ABE 8921 Agricultural and Biological Engineering Seminar. 1 hour</p> <p>ABE 8990 Special Topics in Agricultural and Biological Engineering. 1-6 hours</p> <p>ABE 9000 Research/Dissertation. Credit hours to be arranged; minimum of 20 hrs required for degree</p> <p>Other graduate course as needed: hrs variable</p>	
Total Hours	80	Total Hours	68

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

Detailed descriptions of the reason for the modifications: This degree modification proposal intends to modify PhD degree program requirements in the Agriculture Science/AETB concentration. The Agricultural and Biological Engineering Department would like to standardize the degree program requirement including research for students at the PhD degree level. In particular, this proposal explicitly defines the requirement for the one hr graduate seminar course, which is to be taken for two semesters (2 hrs total) by all PhD students. It clarifies the limitation on Directed Individual Study courses (e.g. ABE 7000), which may comprise up to only six hrs of the total coursework for PhD. It introduces a statistics requirement for PhD students (ST 8114), and lists all other graduate courses which may be taken to satisfy the degree program requirement. The course ABE 8931 Agricultural and Biological Engineering Seminar and ABE 6453 Cotton Ginning Systems and Management is requested to delete as it has not been taught for several years and no longer be supported by the current faculty.

How student benefit from the change: one of the change in the proposed program is the degree program requirement from 80 to 68 hrs including 20 hrs research (beyond BS degree), which would allow students to involve in research work. As PhD is a research-based degree, allowing students to spend more time on research, training, and publication will help them to enhance their overall research productivity.

How such a change strengthens a program/modified learning outcomes of the program: The program change (adding or deleting courses) will be beneficial for AETB PhD students because it will clearly define updated policies, procedures, and program requirements for the PhD degree. Adding ST 8114 will help students to design their research and statistically analyze data that may be obtained through successful research program implementation. Modification to the degree program requirement may also attract new students and sustain graduate enrollment growth. *Learning outcomes of our previous program has not been revised as it is expected that these hrs change would not significantly affect those outcomes. However, this degree modification proposal will strengthen student research knowledge as they have more time to do research.*

Department of Agricultural and Biological Engineering is the only one inter-disciplinary department, which exists between two great colleges (Bagley College of Engineering; and College of Agriculture and Life Sciences). The request to change degree program hrs from 80 to 68 including 20 hrs of research beyond BS degree will help to make our degree program similar to both colleges at Mississippi State and similar program in other institutions (Table 1) meeting the educational needs and standards.

Table 1. Comparison of course work requirement of some PhD programs offered by two colleges at Mississippi State University; and similar program by Iowa State and University of Florida.

No.	College/University	Program	Course work (hrs) required	Source
1	<u>College of Agriculture and Life Sciences at Mississippi State University</u>	<i>Agriculture Science/Engineering Technology (Proposed)</i>	48	Degree modification proposal requested by this proposal
2		Plant and Soil Science – Horticulture Concentration	32	Bulletin of the Graduate School, 2012-2013. Available at: https://www.cavs.msstate.edu/capabilities/GradSchoolBulletin.pdf
3		Poultry Science	Minimum of three academic years beyond the B.S. degree with the number of hours varying as determined by the student and major professor	Bulletin of the Graduate School, 2012-2013. Available at: https://www.cavs.msstate.edu/capabilities/GradSchoolBulletin.pdf
4		Agricultural	The doctoral	Bulletin of the Graduate School,

		Science/Animal Nutrition	program in Agricultural Sciences/Animal Nutrition has no course requirements	2012-2013. Available at: https://www.cavs.msstate.edu/capabilities/GradSchoolBulletin.pdf
5		Animal Physiology	Minimum of three academic years beyond the B.S. degree; the number of hours will vary as determined by the student and major professor	Bulletin of the Graduate School, 2012-2013. Available at: https://www.cavs.msstate.edu/capabilities/GradSchoolBulletin.pdf
6		Molecular Biology	Minimum of 30-40 hours of coursework needed beyond the B.S. degree	Bulletin of the Graduate School, 2012-2013. Available at: https://www.cavs.msstate.edu/capabilities/GradSchoolBulletin.pdf
7	<u>Bagley college of Engineering at Mississippi State University</u>	Mechanical Engineering	42	http://www.me.msstate.edu/academics/graduate/
8		Computer Science Engineering	43	http://web.cse.msstate.edu/prospective/grad/phdguidelines.php
9		Electrical and Computer Engineering	42	http://www.ece.msstate.edu/academics/gradprog/Handbook/ece_graduate_handbook_2013.pdf , Page 15
10		Biomedical Engineering	48	Bulletin of the Graduate School, 2012-2013. Available at: https://www.cavs.msstate.edu/capabilities/GradSchoolBulletin.pdf
11	<u>College of Agriculture and Life Sciences at Iowa State University</u>	Industrial and Agricultural Technology	48	http://www.abe.iastate.edu/graduate-students/graduate-handbook/
12	<u>College of Agriculture and Life Sciences at University of Florida</u>	Agricultural Operations Management (AOM)	54	http://www.abe.ufl.edu/aCademics/graduate/graduate-manuals/documents/GradManual_Cals_2014.pdf

How the program modification proposal address the following questions (page 46-47, UCCC Guide and Format):

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

No significant program modification has been made to affect this question. Yes, it meets the educational needs and standards as described in Table 1.

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

No significant program modification has been made to affect this question. There is no duplication in the system due to this program change.

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

No significant program modification has been made to affect this question. This program change may advance student diversity within the discipline as we currently have increased level of female students in the AETB undergraduate programs who may like to pursue graduate study in the same program.

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

No significant program modification has been made to affect this question. Since, the university has new focus in the area of precision agriculture; AETB graduates will most likely find jobs in the region.

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

No significant program modification has been made to affect this question. The program change will allow students to invest more time in their research, training, and publications; which may help them to find a better pay scale jobs in the region.

Dear Dr. Kirk Swortzel:

The members of the Graduate Faculty in the Department of Agricultural and Biological Engineering unanimously support the following changes:


The Department of Agricultural & Biological Engineering would like to "modify the number of course hours from 60 hours to 48 hours past the Bachelor Degree for the Doctor of Philosophy Degree (Major: Agricultural Sciences and Concentration: Engineering Technology)".

This change is to match our requirements of our other Doctor of Philosophy degrees.

If you desire any additional information from the Graduate Faculty in the Department of Agricultural and Biological Engineering, please contact the Graduate Program Coordinator at: 325-7350 or email: pp354@msstate.edu

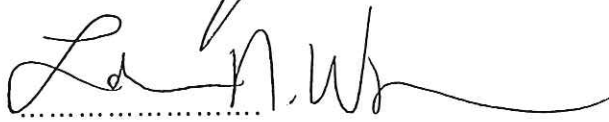
Sincerely,



.....
Tom P. Cathcart
Professor

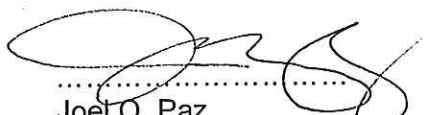

.....
Steven H. Elder
Professor

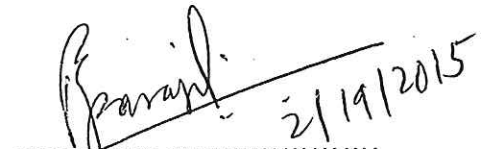

.....
S. D. Filip To
Professor


.....
Jun Liao
Associate Professor



.....
Lakiesha N. Williams
Associate Professor


.....
Fei Yu
Associate Professor


.....
Joel O. Paz
Associate Professor and
Under Graduate Coordinator

 2/19/2015
.....
Prem B. Parajuli
Assistant Professor and
Graduate coordinator


.....
Anna Linhoss
Assistant Professor


.....
C. Lashan Simpson
Assistant Professor

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

College: Arts & Sciences

Department: English

Contact Person: Ginger Pizer

Mail Stop: 9518

E-mail: gpizer@english.msstate.edu

Nature of Change: modification

Date Initiated: 2/1/15

Effective Date: Spring 2016

Degree to be offered at: Main campus (Campus 1)

Current Degree Program Name: Bachelor of Arts

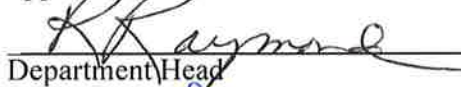
Major: English

Concentration: N/A

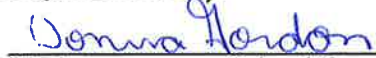
Summary of Proposed Changes:

1. Delete the requirement that students maintain a 2.5 GPA in upper-division English courses.
2. Change the options for satisfying the core History requirement.
3. Count EN 4833 as an elective in Group IV, American or Contemporary Literature.
4. Count EN 4413 as a Vocational Elective.
5. Remove the word "literature" from the one-course English elective requirement, allowing also English courses in creative writing, linguistics, and rhetoric & composition.

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:

5-23-15

9-1-15

9-1-15

☐

IHL Action Required

☐

SACS Letter Sent

DEGREE MODIFICATION PROPOSAL

1. CATALOG DESCRIPTION

See below

2. CURRICULUM OUTLINE

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Arts Major: English	Degree: Bachelor of Arts Major: English
Major Advisors: Professor Richard Raymond (Head) Associate Professor Lara Dodds (M.A. program) Associate Professor Ginger Pizer (B.A. program) Office: 2000 Lee Hall	Major Advisors: Professor Richard Raymond (Head) Associate Professor Lara Dodds (M.A. program) Associate Professor Ginger Pizer (B.A. program) Office: 2000 Lee Hall
The study of English not only gives students knowledge of language and literature but also helps to develop their ability to read perceptively, think critically, analyze problems, and write correctly and persuasively. For this reason, a major in English has traditionally been viewed as good training for careers in law, government, business, and publishing, as well as for careers in teaching and writing.	The study of English not only gives students knowledge of language and literature but also helps to develop their ability to read perceptively, think critically, analyze problems, and write correctly and persuasively. For this reason, a major in English has traditionally been viewed as good training for careers in law, government, business, and publishing, as well as for careers in teaching and writing.
The department offers an undergraduate major (B.A.), an undergraduate minor in English, an undergraduate minor in linguistics, a certificate in TESOL, and an M.A. The department also edits and publishes two distinguished literary journals. <i>Mississippi Quarterly</i> is a refereed scholarly journal dedicated to the life and culture of the American South, past and present. <i>Jabberwock Review</i> is a literary journal publishing stories, poems, and essays by writers across the country. Additionally, the department operates the university Writing Center to assist all MSU students with their writing.	The department offers an undergraduate major (B.A.), an undergraduate minor in English, an undergraduate minor in linguistics, a certificate in TESOL, and an M.A. The department also edits and publishes two distinguished literary journals. <i>Mississippi Quarterly</i> is a refereed scholarly journal dedicated to the life and culture of the American South, past and present. <i>Jabberwock Review</i> is a literary journal publishing stories, poems, and essays by writers across the country. Additionally, the department operates the university Writing Center to assist all MSU students with their writing.
The Department of English awards several scholarships annually: the Howell H. and Elizabeth Gwin Scholarships to outstanding juniors or seniors majoring in English and to graduate students in English; the Helen W. Skelton Annual Scholarship and the Ann Pittman Andrews Memorial Scholarship to full-time English majors maintaining at least a 3.0 GPA and demonstrating good character, leadership and financial need; the William H. Magruder Scholarship to an upper-division or graduate English major; the Roger LeMoyne Dabbs Memorial Scholarship to an English or Communication major; and the Eugene Butler Creative Writing Scholarship to an undergraduate or graduate student. The Department of English sponsors the Xi Kappa Chapter of Sigma Tau Delta National English Honor Society; memberships are offered by invitation to scholastically qualified junior and senior undergraduate students and to second-year graduate students who are English majors. The	The Department of English awards several scholarships annually: the Howell H. and Elizabeth Gwin Scholarships to outstanding juniors or seniors majoring in English and to graduate students in English; the Helen W. Skelton Annual Scholarship and the Ann Pittman Andrews Memorial Scholarship to full-time English majors maintaining at least a 3.0 GPA and demonstrating good character, leadership and financial need; the William H. Magruder Scholarship to an upper-division or graduate English major; the Roger LeMoyne Dabbs Memorial Scholarship to an English or Communication major; and the Eugene Butler Creative Writing Scholarship to an undergraduate or graduate student. The Department of English sponsors the Xi Kappa Chapter of Sigma Tau Delta National English Honor Society; memberships are offered by invitation to scholastically qualified junior and senior undergraduate students and to second-year graduate students who are English majors. The

<p>Department of English also offers the Nolan Book Award competition for junior and senior English majors and sponsors several writing contests and awards.</p> <p>In addition to two semesters of freshman composition, which the department recommends be taken at the Accelerated or Honors level, English majors take EN 2213, 2223, 2243, 2253, and 3414, and at least 21 additional hours of English electives, of which 15 hours must be 4000 level and taken in residence, distributed among English, American, and World literature. EN 2203 does not count toward the requirements for the major.</p> <p><i>English majors must maintain at least a 2.5 GPA in all upper-division English courses. Students who fall below a 2.5 GPA must bring it up to 2.5 the next semester or drop the English major.</i></p> <p>English majors must attain a C or better in all English courses at the 2000 level or above in order for those courses to count toward the requirements of the major.</p> <p>Students seeking secondary-school teaching certification should consult with an English Education advisor.</p> <p>English minors take at least 18 hours of English electives with a grade of C or better beyond completion of the freshman composition requirement of their major. Of these hours, at least six must be at the 4000 level; these must be completed in residence. No more than six hours may be linguistics classes, i.e., classes which count toward the linguistics minor. Students should consult the English major advisor to plan a minor program which will complement their major studies and career interests.</p>		<p>Department of English also offers the Nolan Book Award competition for junior and senior English majors and sponsors several writing contests and awards.</p> <p>In addition to two semesters of freshman composition, which the department recommends be taken at the Accelerated or Honors level, English majors take EN 2213, 2223, 2243, 2253, and 3414, and at least 21 additional hours of English electives, of which 15 hours must be 4000 level and taken in residence, distributed among English, American, and World literature. EN 2203 does not count toward the requirements for the major.</p> <p>English majors must attain a C or better in all English courses at the 2000 level or above in order for those courses to count toward the requirements of the major.</p> <p>Students seeking secondary-school teaching certification should consult with an English Education advisor.</p> <p>English minors take at least 18 hours of English electives with a grade of C or better beyond completion of the freshman composition requirement of their major. Of these hours, at least six must be at the 4000 level; these must be completed in residence. No more than six hours may be linguistics classes, i.e., classes which count toward the linguistics minor. Students should consult the English major advisor to plan a minor program which will complement their major studies and career interests.</p>	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English Composition EN1103 English Composition I OR EN1163 Accelerated Composition I EN1113 English Composition II OR EN1173 Accelerated Composition II	6	English Composition EN1103 English Composition I OR EN1163 Accelerated Composition I EN1113 English Composition II OR EN1173 Accelerated Composition II	6
Foreign Language 3 semesters in one foreign language	9	Foreign Language 3 semesters in one foreign language	9
Fine Arts See A&S requirements	3	Fine Arts See A&S requirements	3
Natural Sciences 3-4 hours Physical Science w/Lab* 3-4 hours Biological Science w/Lab** 3-4 hours Natural Science Elective***	9-12	Natural Sciences 3-4 hours Physical Science w/Lab* 3-4 hours Biological Science w/Lab** 3-4 hours Natural Science Elective***	9-12
Math MA 1313 College Algebra 3 hours above College Algebra	6	Math MA 1313 College Algebra 3 hours above College Algebra	6

Humanities 3 hours Philosophy Elective - see advisor 6 hours <i>History Sequence</i> - choose one of the following: HI 1063 Early U.S. History & HI 1073 Modern U.S. History HI 1163 World History Before 1500 & HI 1173 World History Since 1500 HI 1213 Early Western World & HI 1223 Modern Western World	9	Humanities 3 hours Philosophy Elective - see advisor 3 hours Early History - choose one of the following: HI 1063 Early U.S. History HI 1163 World History Before 1500 HI 1213 Early Western World HI 1313 East Asian Civilizations to 1300 3 hours Late History – choose one of the following: HI 1073 Modern U.S. History HI 1173 World History Since 1500 HI 1223 Modern Western World HI 1323 East Asian Civilizations since 1300	9
Social Sciences**** 6 hours See A&S requirements 12 hours Social Sciences Electives	18	Social Sciences**** 6 hours See A&S requirements 12 hours Social Sciences Electives	18
Major Core Courses Fourth semester in chosen Foreign Language	3	Major Core Courses Fourth semester in chosen Foreign Language	3
Upper Division Arts and Sciences Humanities (HI, FL, PHI) or Study Abroad Elective	3	Upper Division Arts and Sciences Humanities (HI, FL, PHI) or Study Abroad Elective	3
EN 1111 English Studies		EN 1111 English Studies	1
EN 2213 English Literature Before 1800	1	EN 2213 English Literature Before 1800	3
EN 2223 English Literature After 1800	3	EN 2223 English Literature After 1800	3
EN 2243 American Literature Before 1865	3	EN 2243 American Literature Before 1865	3
EN 2253 American Literature After 1865	3	EN 2253 American Literature After 1865	3
EN 3414 Critical Writing and Research	3	EN 3414 Critical Writing and Research	4
EN 4111 Portfolios and Reflective Writing	4	EN 4111 Portfolios and Reflective Writing	1
	1		
Upper Division Requirements Pre-1660 English Lit Elective (Group I) (one course)	3	Upper Division Requirements Pre-1660 English Lit Elective (Group I) (one course)	3
EN 4503 Shakespeare	3	EN 4503 Shakespeare	
EN 4513 Shakespeare	3	EN 4513 Shakespeare	
EN 4523 Chaucer		EN 4523 Chaucer	
EN 4533 Milton		EN 4533 Milton	
EN 4703 English Lit of the 16 th Century	6	EN 4703 English Lit of the 16 th Century	
EN 4713 English Lit of the 17 th Century		EN 4713 English Lit of the 17 th Century	
Post-1660 English Lit Elective (Group II) (one course)	3	Post-1660 English Lit Elective (Group II) (one course)	3
EN 4643 The 18 th Century British Novel		EN 4643 The 18 th Century British Novel	
EN 4653 The 19 th Century British Novel		EN 4653 The 19 th Century British Novel	
EN 4663 British and Irish Novel Since 1900		EN 4663 British and Irish Novel Since 1900	
EN 4723 British Literature and Culture from 1660-1700		EN 4723 British Literature and Culture from 1660-1700	
EN 4733 British Literature and Culture of the 18 th Century		EN 4733 British Literature and Culture of the 18 th Century	

EN 4863 The Romantic Poets and Prose Writers EN 4883 Victorian Poets and Prose Writers Postcolonial or World Lit Elective (Group III), or one more course from Group I or Group II (one course) EN 4393 Postcolonial Literature and Theory EN 4813 The World Novel Since 1900 American or Contemporary Lit Elective (Group IV) (2 courses) EN 4333 Southern Literature EN 4343 Studies in African American Literature EN 4903 American Literature: 1800-1860 EN 4913 American Literature: 1860-1900 EN 4923 American Novel Since 1900 EN 4933 Survey of Contemporary Lit English Vocational Elective (one course) EN 3303 Creative Writing EN 3313 Writing for the Workplace EN 4223 Principles of Legal Writing EN 4233 Composition Pedagogy EN 4243 Writing Center Tutor Training EN 4323 Lit Criticism from Plato-Present EN 4353 Critical Theory Since 1900 EN 4403 Introduction to Linguistics English <i>Lit</i> Elective (3 hours) Oral Communication Requirement CO 1003 Fundamentals of Public Speaking OR CO 1013 Introduction to Communication General Electives Consult advisor	3 3 15	EN 4863 The Romantic Poets and Prose Writers EN 4883 Victorian Poets and Prose Writers Postcolonial or World Lit Elective (Group III), or one more course from Group I or Group II (one course) EN 4393 Postcolonial Literature and Theory EN 4813 The World Novel Since 1900 American or Contemporary Lit Elective (Group IV) (2 courses) EN 4333 Southern Literature EN 4343 Studies in African American Literature EN 4833 The American Short Story EN 4903 American Literature: 1800-1860 EN 4913 American Literature: 1860-1900 EN 4923 American Novel Since 1900 EN 4933 Survey of Contemporary Lit English Vocational Elective (one course) EN 3303 Creative Writing EN 3313 Writing for the Workplace EN 4223 Principles of Legal Writing EN 4233 Composition Pedagogy EN 4243 Writing Center Tutor Training EN 4323 Lit Criticism from Plato-Present EN 4353 Critical Theory Since 1900 EN 4403 Introduction to Linguistics EN 4413 History of the English Language English Elective any EN course except EN 2203 Oral Communication Requirement CO 1003 Fundamentals of Public Speaking OR CO 1013 Introduction to Communication General Electives Consult advisor	 3 6 3 3 15
Total Hours	124	Total Hours	124
(Must maintain a 2.5 GPA in upper-division English courses. Must make a grade of C or higher in all upper-division English courses. Must complete 31 upper-division A&S hours. Must take 15 hours at the 4000 level in residence.) *CH, GG, or PH; see General Education courses. **BIO, EPP, or PO; see General Education courses. ***Consult advisor. ****No more than two courses per discipline (no more than one CO and EC) and must include 4 disciplines over the 18 hours.		(Must make a grade of C or higher in all English courses at the 2000 level or above. Must complete 31 upper-division A&S hours. Must take 15 hours at the 4000 level in residence.) *CH, GG, or PH; see General Education courses. **BIO, EPP, or PO; see General Education courses. ***Consult advisor. ****No more than 2 courses per discipline (no more than one CO and EC) and must include 4 disciplines over the 18 hours.	

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

1. The requirement that students maintain a 2.5 GPA in upper-division English courses has been deleted. The previously-established requirement that students earn at least a C in all English courses at the 2000 level or above is judged a sufficient measure of student achievement. With the exception of Oklahoma State University, which requires English majors to have a 3.0 GPA in their English courses, none of our peer institutions require an English GPA higher than 2.0.

(Note: the current catalog listing is inconsistent in terms of the requirement to earn at least a C, stating that the requirement applies to courses at the 2000 level or above in the text of the description, but applying it to only upper-division courses in a footnote to the curriculum outline. We are retaining the existing requirement for courses at the 2000 level or above and correcting the footnote accordingly.)

2. The options for satisfying the core History requirement have been changed to reflect the addition of HI 1313 and HI 1323 to the core and to eliminate the requirement that students restrict themselves to courses within the same sequence. There is no clear reason to require an English major to focus their history studies in one part of the world rather than seeking a breadth of historical knowledge about more than one part of the world.
3. EN 4833 The American Short Story has been added as an elective in Group IV, American or Contemporary Literature. This course was previously approved, but no program change indicating its group membership has been done since. This course provides one option toward several of the program's learning outcomes:
 - a. Show understanding of the generic conventions and plot structures that inform English and American literature.
 - b. Analyze and evaluate the choices writers make to achieve rhetorical and aesthetic purposes.
 - c. Show understanding of the major themes and schools of criticism in the history of English and American literature.
4. The previously-existing course EN 4413 History of the English Language has been added as a Vocational Elective. The purpose of this category of courses is to provide students with knowledge and skills that are evidently applicable to their potential future careers. A knowledge of the history of the language is of particular importance to students who plan to become English teachers. Having taken this class may improve their performance on the English Praxis test and therefore their job placement; it may also improve their future teaching practice and therefore help meet local or state educational needs.
5. The word "literature" has been deleted from the one-course English elective requirement. In addition to literature courses, the English program includes courses in creative writing, linguistics, and rhetoric & composition; courses in all of these areas satisfy various of the program's learning outcomes, e.g.,
 - a. Develop appropriate content to support claims in expository, persuasive, and critical writing.
 - b. Arrange content in appropriate patterns to develop ideas persuasively.
 - c. Edit to meet readers' expectations for clarity and correctness.
 - d. Analyze and evaluate the choices writers make to achieve rhetorical and aesthetic purposes.
 - e. Learn the history of the language, and, for those who so elect, learn to teach English as a second language.

These modifications will not result in duplication, change student diversity in the program, or change the potential salaries of graduates.

4. SUPPORT

Please see the attached letter of support from the English curriculum committee.

5. PROPOSED 4-LETTER ABBREVIATION

The modification will not require a new abbreviation for identification in official university reports.

6. EFFECTIVE DATE

Spring 2016



MISSISSIPPI STATE UNIVERSITY

Department of English
P.O. Box E
Mississippi State, MS 39762-5505
(662) 325-3644 • FAX: (662) 325-3645

TO: Donna Gordon
Chair, Arts and Sciences Curriculum Committee

FROM: Bonnie O'Neill
Chair, Department of English Curriculum Committee

RE: Program Modification Proposal

DATE: 5 March 2015

On March 4, 2015, the English Department voted unanimously to approve the modification of the English major, as detailed in the attached proposal.

The English Department's Curriculum Committee has also voted to approve the proposal.

Members of the Curriculum Committee:

Dr. Ted Atkinson

Dr. Shalyn Claggett

Dr. Holly Johnson

Dr. Ginger Pizer

Dr. Andrea Spain

Ann Spurlock

Dr. Eric Vivier

EM 6133 Mechanics of Composite Materials: 3 hours.

(Prerequisites: EM 3213 and MA 3253.) Three hours lecture. Stress, strain, constitutive relations for anisotropic material, lamina properties, laminate properties, composite beams and plates

EM 6143 Engineering Design Optimization: 3 hours.

(Prerequisite: Consent of instructor) Three hours lecture. Introduction to optimality criteria and optimization techniques for solving constrained or unconstrained optimization problems. Sensitivity analysis and approximation. Computer application in optimization. Introduction to MDO. (Same as ASE 4553/6553 and IE 4743/6743)

EM 6213 Advanced Mechanics of Materials: 3 hours.

(Prerequisite: EM 3213). Three hours lecture. Stress, strain, stress-strain relationships, strain energy, failure theories, curved beams, unsymmetrical bending, shear center, torsion of noncircular sections, energy principles, Castigliano's theorem, inelastic behavior

EM 6990 Special Topics in Engineering Mechanics: 1-9 hours.

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

EM 7000 Directed Individual Study in Engineering Mechanics: 1-6 hours.

Hours and credits to be arranged

EM 8000 Thesis Research/ Thesis in Engineering Mechanics: 1-13 hours.

Hours and credits to be arranged

EM 8113 Theory of Continuous Media: 3 hours.

(Prerequisite: MA 3353 or consent of the instructor). Three hours lecture. An introduction to the general theory of continuous media and its application to the theories of elasticity and fluid mechanics

EM 8203 Applied Elasticity: 3 hours.

Three hours lecture. Analysis of stress and strain; stress-strain relations; bending and torsion of beams; stress functions; strain energy

EM 8213 Fracture Mechanics: 3 hours.

(Prerequisite: EM 3213 or consent of instructor). Three hours lecture. History of fracture and development of fracture mechanics principles. Linear elastic and elastic-plastic stress analysis of cracked bodies. ASTM standards and applications

EM 8313 Advanced Dynamics: 3 hours.

(Prerequisites: EM 2433 and MA 3253). Three hours lecture. Fundamental considerations, Hamilton's principle, Lagrange's equations, rigid body dynamics

EM 8323 Advanced Vibrations: 3 hours.

(Prerequisite: EM 3413). Three hours lecture. Oscillatory systems, matrix formulation by Lagrange's equations, natural modes of discrete and continuous systems, approximate methods, modal analysis

EM 8990 Special Topics in Engineering Mechanics: 1-9 hours.

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

EN 0103 Basic English: 3 hours.

(Prerequisite: A score of 16 or below on the English section of the ACT). Three hours lecture. A study of grammar and mechanics as basic to composition, with emphasis on the sentence and the paragraph. Does not count toward any degree

EN 1001 First Year Seminar: 1 hour.

One hour lecture. First-year seminars explore a diverse array of topics that provide students with an opportunity to learn about a specific discipline from skilled faculty members

EN 1103 English Composition I: 3 hours.

(Prerequisite: A score of 17 or above on the English section of the ACT or EN 0103). Three hours lecture. A study of logical and rhetorical principles and organizational strategies that contribute to effective writing. Honors section available

EN 1111 English Studies: 1 hour.

One hour lecture. Introduction to English Studies: a survey of the profession, including disciplinary assumptions, research processes, sub-fields, and career opportunities

EN 1113 English Composition II: 3 hours.

(Prerequisite: EN 1103, 1163, or 1183). Three hours lecture. An expanded study of and practice in stylistics, logic, and research as contributions to analytical writing

EN 1163 Accelerated Composition I: 3 hours.

(Prerequisite: A score of 29 or above on the English section of the ACT or consent of the instructor). Three hours lecture. An expanded study of and practice in stylistics, logic, and research as contributions to expository writing, designed for students who exhibit command of basic rhetorical principles

EN 1173 Accelerated Composition II: 3 hours.

(Prerequisite: EN 1163 or an ACT sub-score in English of 28 or higher). Three hours lecture. An expanded study of and practice in stylistics, logic, and research as contributions to analytical writing, with emphasis on extensive study of diverse rhetorical models

EN 2203 Introduction to Literature: 3 hours.

(Prerequisite: Completion of freshman composition). (Not open to English majors or honors students who complete EN 1183 or 1193). Three hours lecture. The critical and appreciative study of masterpieces in various genres chosen from English and world literature

EN 2213 English Literature before 1800: 3 hours.

(Prerequisite: Completion of freshmen composition). Three hours lecture. A survey of English literature from the Medieval to the Neo-classical periods, including works by Shakespeare, Milton and Pope

EN 2223 English Literature After 1800: 3 hours.

(Prerequisite: Completion of freshmen composition). Three hours lecture. A survey of English literature including the Romantic, Victorian, and Modernist periods

EN 2243 American Literature Before 1865: 3 hours.

(Prerequisite: Completion of freshmen composition). Three hours lecture. A survey of American literature and culture, including letters, sermons, essays, fiction and poetry, from the fifteenth century through the antebellum period's "American Renaissance

EN 2253 American Literature After 1865: 3 hours.

(Prerequisite: Completion of freshmen composition). Three hours lecture. Survey of representative authors, texts, and periods that demonstrate the richness and diversity of American literature and culture after 1865

English Courses

EN 0003 Developmental English: 3 hours.

Emphasizes the use of standard American English. Offered only to students required to enroll in developmental studies; prerequisite to any English courses applicable to requirements

EN 2273 World Literature Before 1600: 3 hours.

(Prerequisite: Completion of freshmen composition). Three hours lecture. Selected works from ancient times to 1600 in translation

EN 2283 World Literature After 1600: 3 hours.

(Prerequisite: Completion of freshmen composition). Three hours lecture. Selected works since 1600, excluding literature of the U.S., Britain, and Ireland

EN 2363 Introduction to African American Literature: 3 hours.

Three hour lecture. (Prerequisites: EN 1103 or 1113 or their equivalent). An introductory course that examines the major authors and texts of the African American Literary Tradition. (Same as AAS 2363)

EN 2403 Introduction to the Study of Language: 3 hours.

Three hours lecture. Students will be introduced to the subfields of linguistics to answer questions they have about language and to provide evidence about language acquisition and use. (Same as AN 2403)

EN 2434 Literature and Film: 4 hours.

(Prerequisite: Completion of English composition requirements). Three hours lecture. One laboratory. Introduction to literary and cinematic techniques, methods of analysis, and structures

EN 2443 Introduction to Science Fiction: 3 hours.

(Prerequisite: Completion of English requirements of the student's major field). Three hours lecture. A study of major science fiction writers of the past two centuries, with emphasis on human experience in a technological society

EN 2503 Teaching Grammar: 3 hours.

(Prerequisite: Sophomore status). Three hour lecture. The study of English grammar and strategies used to teach grammar in modern classrooms

EN 2990 Special Topics in English: 1-9 hours.

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

EN 3303 Creative Writing: 3 hours.

(Prerequisite: Completion of freshman composition). Three hours lecture. Basic techniques in writing fiction and poetry; meter and rhyme, metaphor and image, plot, characterization, dramatic detail

EN 3313 Writing for the Workplace: 3 hours.

Prerequisite: EN 1113 or equivalent. Three hours lecture. Advanced writing course focused on communication in the workplace, including correspondence, technical descriptions, instruction writing, proposals, and recommendation reports

EN 3414 Critical Writing and Research in Literary Studies: 4 hours.

(Prerequisite: twelve hours of English). Four hours lecture. An introduction to the application of critical theories and research methods in writing about literature, for English and English Education majors

EN 3423 Descriptive English Grammar: 3 hours.

(Prerequisite: Twelve hours of English). Three hours lecture. Advanced course in English grammar

EN 3513 Women and Literature: Selected Topics: 3 hours.

(Prerequisites: Completion of freshman composition). Three hours lecture. A study of literary works by or about women. Texts are selected according to theme, genre, and/or historical period. (Same as GS 3513)

EN 3523 Shakespeare and Film: 3 hours.

(Prerequisite: EN 1103 and EN 1113 or their equivalent). Three hours lecture. This course offers a focused study of Shakespeare on page and screen. Specific play and film adaptations are selected by the instructor

EN 3533 Selected Authors: 3 hours.

(Prerequisites: EN 1103 and EN 1113 or their equivalent). Three hours lecture. This course offers a focused study on the major works by selected authors. Authors and texts are selected by the instructor

EN 3903 Intermediate Fiction Writing: 3 hours.

(Prerequisite: EN 3303). Three hours lecture. An intermediate course in the craft and art of fiction writing, focusing on techniques such as setting, dialogue, and characterization

EN 4000 Directed Individual Study in English: 1-6 hours.

Hours and credits to be arranged

EN 4111 Portfolios and Reflective Writing: 1 hour.

(Prerequisite: Senior standing). One hour lecture. The study and practice of writing application letters/resumes and preparing academic portfolios

EN 4223 Principles of Legal Writing: 3 hours.

(Prerequisite: EN 1103 and EN 1113 or their equivalent and Junior standing or consent of instructor). Three hours lecture. Introduction to prose of the legal profession, emphasizing rhetorical strategy and style. Advanced composition, including work with contracts, letters, regulations, memoranda of law, and briefs

EN 4233 Composition Pedagogy: 3 hours.

(Prerequisite: EN 1113 or Consent of Instructor). Three hours lecture. Introduction to practices and debates in college composition pedagogies. Develops practical strategies for instruction in composition; introduces historical and theoretical scholarship in rhetoric and composition

EN 4243 Writing Center Tutor Training: 3 hours.

(Prerequisite: Grade of B or better in EN 1113 and consent of instructor). Three hours lecture. Introduction to the practices and theories of college writing consultation in Writing Centers

EN 4303 Craft of Poetry: 3 hours.

Three hours lecture. (Prerequisite: EN 3303 or consent of instructor). The craft and practice of writing poetry

EN 4313 Craft of Fiction: 3 hours.

Three hours lecture. (Prerequisite: EN 3903 or consent of instructor). The craft and practice of writing fiction

EN 4323 Literary Criticism from Plato-Present: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A survey of literary criticism from Plato to the present

EN 4333 Southern Literature: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A survey of southern literature from the antebellum period to the "post southern" present. Features selected works representing the diverse literary heritage of the U.S. South

EN 4343 Studies in African American Literature: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A study of selected authors and/or topics in African American literature. (Same as AAS 4343)

EN 4353 Critical Theory Since 1900: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A study of major strategies of interpretation since 1900, including psychoanalysis, Marxism, structuralism, feminism, deconstruction

EN 4393 Postcolonial Literature and Theory: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A critical introduction to postcolonial studies, examining the literatures of colonized or previously colonized peoples and their diasporas. (Same as AAS 4393)

EN 4403 Introduction to Linguistics: 3 hours.

Three hours lecture. The descriptive and historical study of language; linguistic analysis and comparisons; language classification; language in its social and cultural setting. (Same as AN 4403/6403)

EN 4413 History of the English Language: 3 hours.

(Prerequisite: Twelve hours of English). Three hours lecture. The origin and development of the English language; past and ongoing changes in sounds and structure; influence of social history on language variation and change

EN 4433 Approaches to TESOL: 3 hours.

Three hours lecture. This course covers various approaches to language teaching, including course design, classroom management, and sociocultural and sociopolitical issues surrounding being a language teacher

EN 4443 English Syntax: 3 hours.

Three hours lecture. Grammatical analysis of English with emphasis on pedagogical applications to teaching English as a foreign/second language

EN 4453 Methods in TESOL: 3 hours.

Three hours lecture. This course covers the various practical pedagogical approaches common in TESOL, including methods for teaching reading, listening, speaking, and writing as well as communicative approaches

EN 4463 Studies in Second Language Acquisition: 3 hours.

(Prerequisite: EN 4403/6403 or consent of instructor). Three hours lecture. A survey of the major theories of language acquisition, concentrating on accounts of second language acquisition

EN 4493 TESOL Practicum: 3 hours.

(Prerequisite: EN 4403/6403). Three hour practicum. A pedagogical practice class that focuses on the practical application of TESOL approaches, methods, and techniques

EN 4503 Shakespeare: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Shakespeare's plays through 1599

EN 4513 Shakespeare: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Shakespeare's plays from 1600

EN 4523 Chaucer: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Studies in the major works of Chaucer. Readings in Middle English

EN 4533 Milton: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. The principal writings of Milton, including all of *PARADISE LOST* and *PARADISE REGAINED*, and some of the chief prose works

EN 4623 Language and Culture: 3 hours.

Three hours lecture. Examination of language as a part of culture, a source of knowledge about other aspects of culture, and a social behavior. (Same as AN 4623/6623 and SO 4623/6623)

EN 4633 Language and Society: 3 hours.

Three hours lecture. Examination of relationship between language and society. How language varies regionally and socially; people's use of and attitudes toward different ways of speaking. (Same as AN 4633/6633 and SO 4633/6633)

EN 4643 The Eighteenth-Century British Novel: 3 hours.

(Prerequisite: Completion of Twelve hours of English). Three hours lecture. A study of the early cultural and critical history of the novel, focusing on the novelists who invented and refined the form

EN 4653 The Nineteenth-Century British Novel: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A study of the major nineteenth-century British novelists

EN 4663 British and Irish Novel Since 1900: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A study of British and Irish novelists from Conrad and Woolf to Rushdie and Byatt, as well as literary movements including modernism, postmodernism, and postcolonialism

EN 4703 English Literature of the Sixteenth-Century: 3 hours.

(Prerequisites: Completion of English requirements in the student's major). Study of the development of the English literary tradition, including works by Wyatt, Sidney, Spenser, Marlowe and others in their cultural and historical contexts

EN 4713 English Literature of the Seventeenth-Century: 3 hours.

(Prerequisite: Completion of Twelve hours of English). Three hours lecture. Study of major works of poetry, prose, and drama, including works by Donne, Jonson, Wroth and others in their literary, cultural, and historical contexts

EN 4723 British Literature and Culture from 1600-1700: 3 hours.

(Prerequisites: Completion of English requirements in the student's major). An exploration of the literature and culture of the Restoration and late seventeenth century. Covers a variety of genres

EN 4733 British Literature and Culture of the Eighteenth-Century: 3 hours.

(Prerequisite: Completion of the English requirements in the student's major). Three hours lecture. An exploration of important literary, political and cultural phenomena from the British eighteenth century. Covers a variety of genres

EN 4803 Types of Drama Since 1900: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. The development of modern American, British, and Continental drama since Ibsen

EN 4813 The World Novel Since 1900: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Major world novelist since 1900, excluding British, Irish, and American

EN 4823 Poetry Since 1900: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Chief American and British poets; their verse technique and their contribution to poetic art

EN 4833 The American Short Story: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A study of the American short story from Washington Irving to the present, as well as relevant literary movements

EN 4863 The Romantic Poets and Prose Writers: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. An intensive study of the major Romantic poets Wordsworth, Shelley, Keats, Byron, Coleridge along with some of the non-fiction prose of the period

EN 4883 Victorian Poets and Prose Writers: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Intensive study of Tennyson, Browning, Arnold, Swinburne, and other Victorian poets, along with some of the non-fiction prose of the period

EN 4903 American Literature: 1800-1860: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Studies in Irving, Cooper, Poe, Hawthorne, the Transcendentalists, and Southern Humorists. This course cannot be taken before EN 2243

EN 4913 American Literature: 1860-1900: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Studies in Twain, Whitman, Dickinson, James, Crane, and others. This course cannot be taken before EN 2253

EN 4923 American Novel Since 1900: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A study of the American novel since Dreiser

EN 4933 Survey of Contemporary Literature: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Significant trends in European and American literature since the outbreak of World War II

EN 4943 Form and Theory of Fiction: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Theoretical aspects of fictional technique, genre, style; readings include novels, short stories, and writings about the craft of fiction. Recommended complement to creative writing courses

EN 4953 Form and Theory of Poetry: 3 hours.

(Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Poetic theory; formal conventions, techniques, and innovations in the tradition of English and American poetry. Recommended complement to creative writing courses

EN 4990 Special Topics in English: 1-9 hours.

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

EN 6013 Internship in Compositional Theory and the Teaching of College Writing: 3 hours.

(Prerequisite: Acceptance as a teaching assistant in the Department of English). Compositional theory in relation to teaching and evaluating traditional modes of writing, coordinated with at least twenty hours per week of supervised professional experience

EN 6223 Principles of Legal Writing: 3 hours.

(Prerequisite: EN 1103 and EN 1113 or their equivalent and Junior standing or consent of instructor). Three hours lecture. Introduction to prose of the legal profession, emphasizing rhetorical strategy and style. Advanced composition, including work with contracts, letters, regulations, memoranda of law, and briefs

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DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

College: Engineering

Department: Industrial & Systems Engineering

Contact Person: Lesley Strawderman **Mail Stop:** 9542 **E-mail:** strawderman@ise.msstat.edu

Nature of Change: Modification **Date Initiated:** 08/11/15 **Effective Date:** Spring 2016

Degree to be offered at: Starkville (Campus 1)

Current Degree Program Name: Bachelor of Science

Major: Industrial Engineering

Concentration:

New Degree Program Name:

Major:

Concentration:

Summary of Proposed Changes:

Change one required course, as the course currently listed is no longer offered. Instead of requiring ECE 3183 (no longer offered), we will require ECE 3413.

Add an alternative course to one required course. Instead of requiring CHE 3413, we will require CHE 3413 or ME 3403.

No other change in degree requirement is proposed.

Approved:

Date:

Department Head

8/11/15

Chair, College or School Curriculum Committee

9/1/15

Dean of College or School

9/2/15

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council



IHL Action Required



SACS Letter Sent

Proposal for the Modification of the BS in Industrial Engineering

1. CATALOG DESCRIPTION

No changes proposed.

2. CURRICULUM OUTLINE

Detailed list of changes

- Change one required course, as the course currently listed is no longer offered. Instead of requiring ECE 3183 (no longer offered), we will require ECE 3413.
- Add an alternative course to one required course. Instead of requiring CHE 3413, we will require CHE 3413 or ME 3403.
- No other change in degree requirement is proposed.

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Industrial Engineering Concentration:	Degree: Bachelor of Science Major: Industrial Engineering Concentration:
Industrial and systems engineering is the application of engineering methods and the principles of scientific management to the design, improvement, and installation of integrated systems of people, materials, information, equipment, and energy. The industrial and systems engineer is concerned with the design of total systems, and is the leader in the drive for increased productivity and quality improvement.	Industrial and systems engineering is the application of engineering methods and the principles of scientific management to the design, improvement, and installation of integrated systems of people, materials, information, equipment, and energy. The industrial and systems engineer is concerned with the design of total systems, and is the leader in the drive for increased productivity and quality improvement.
The industrial and systems engineering profession uses a variety of specialized knowledge and skills. These include communications, economics, mathematics, physical and social sciences, together with the methods of engineering analysis and design.	The industrial and systems engineering profession uses a variety of specialized knowledge and skills. These include communications, economics, mathematics, physical and social sciences, together with the methods of engineering analysis and design.
The industrial and systems engineer is often involved in designing or improving major systems that encompass the total organization. Consequently, he/she is often in contact with individuals from many segments of the organization. From his/her education and these experiences, the industrial and systems engineer develops a global view of the many inter-related operations necessary to deliver a firm's goods and services. Because of their management skills and global view of the organization, a large proportion of industrial and systems engineers move into management, and later advance into top management positions.	The industrial and systems engineer is often involved in designing or improving major systems that encompass the total organization. Consequently, he/she is often in contact with individuals from many segments of the organization. From his/her education and these experiences, the industrial and systems engineer develops a global view of the many inter-related operations necessary to deliver a firm's goods and services. Because of their management skills and global view of the organization, a large proportion of industrial and systems engineers move into management, and later advance into top management positions.
Although industrial and systems engineering is especially important to all segments of industry, it is also applied in other types of organizations, such as transportation, health care, public utilities, agriculture, defense, government, merchandising, distribution,	Although industrial and systems engineering is especially important to all segments of industry, it is also applied in other types of organizations, such as transportation, health care, public utilities, agriculture, defense, government, merchandising, distribution,

logistics, and other service sectors. With increasing emphasis on quality and productivity for successful international competition, it is expected that industrial and systems engineers will be in increasing demand in the coming decades.

The objectives of the Department of Industrial and Systems Engineering are founded in Mississippi State University's educational philosophy and in the industrial engineering profession. They were developed to satisfy the needs of the department's constituents: students, employers, alumni, faculty, and the industrial engineering profession.

The Industrial Engineering program objective is to graduate students having a broad education, with emphasis in industrial and systems engineering fundamentals and practices, which enables them to function effectively in systems involving people, materials, information, energy, and money.

The six educational objectives of the Bachelor of Science degree in industrial engineering are stated below.

1. The Department of Industrial and Systems Engineering strives to ready its graduates for a lifelong pursuit of learning.
2. The Department of Industrial and Systems Engineering expects its graduates to be well versed in industrial engineering theory, know how to apply that theory, and to be capable of functioning effectively in a broad range of organizations.
3. The Department of Industrial and Systems Engineering expects its graduates to master important professional skills, including communication, economics, physical and social science, mathematics and statistics.
4. The Department of Industrial and Systems Engineering expects its graduates to interact cooperatively in professional situations with individuals having different cultures, training, education, and interest.
5. The Department of Industrial and Systems Engineering expects its graduates to think independently, to critically examine ideas, and to make discerning professional judgments, whether intellectual, ethical, or aesthetic.
6. The Department of Industrial and Systems Engineering expects to graduate professionally mature, responsible, and informed citizens.

Because of the importance of systems design in the many facets of industrial and systems engineering, instruction of the principles and methods of design is integrated throughout the curriculum of industrial

logistics, and other service sectors. With increasing emphasis on quality and productivity for successful international competition, it is expected that industrial and systems engineers will be in increasing demand in the coming decades.

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4. The Department of Industrial and Systems Engineering expects its graduates to interact cooperatively in professional situations with individuals having different cultures, training, education, and interest.
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6. The Department of Industrial and Systems Engineering expects to graduate professionally mature, responsible, and informed citizens.

Because of the importance of systems design in the many facets of industrial and systems engineering, instruction of the principles and methods of design is integrated throughout the curriculum of industrial engineering, and culminates in a major design experience in the student's

engineering, and culminates in a major design experience in the student's senior year. The Industrial Engineering Program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org .		senior year. The Industrial Engineering Program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org .	
n/a		n/a	
CURRENT CURRICULUM OUTLINE		PROPOSED CURRICULUM OUTLINE	
Required Hours		Required Hours	
English	6	English	6
Humanities	6	Humanities	6
Fine Arts	3	Fine Arts	3
Social/Behavioral Sciences	6	Social/Behavioral Sciences	6
Major Core		Major Core	
Mathematics	15	Mathematics	15
Science	13	Science	13
Math/Science Elective	3	Math/Science Elective	3
Engineering Topics		Engineering Topics	
CHE 3413, <i>ECE 3183</i> ,	14	CHE 3413 or ME 3403,	14
EM 2413, ACC 2203, EG 1142		ECE 3413, EM 2413, ACC 2203,	
IE Topics	47	EG 1142	
IE Elective	3	IE Topics	47
Engineering Science Elective	6	IE Elective	3
		Engineering Science Elective	6
Oral Communication Requirement	3	Oral Communication Requirement	3
Writing Requirement	3	Writing Requirement	3
Total Hours	128	Total Hours	128

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

There is no change in student learning outcomes.

For the ECE replacement course, ISE was informed that ECE 3183 would no longer be offered by the ECE department. The ECE department recommended that ECE 3413 would be a suitable alternative, and the ISE faculty agreed.

For the addition of ME 3403 as an alternative to CHE 3413, this is largely driven by scheduling restrictions. CHE 3413 is only offered once per year, and is a co-requisite for IE 3323. The IE faculty determined that ME 3403 covers similar material to CHE 3413, and will be sufficient to prepare students for the coursework in IE 3323.

Benefits

The ECE course change will allow students to continue to take an ECE course to develop breadth of engineering knowledge in the electrical engineering domain.

The ME/CHE alternative change will increase scheduling flexibility for our students, while maintaining the academic rigor and content coverage required in the curriculum.

Detailed Rationale

The ISE undergraduate coordinator was notified by email on January 21, 2015, about the possibility of ECE 3183 no longer being offered, and that ECE 3413 would be modified to be suitable for non-majors. The ISE undergraduate committee presented a recommendation to the ISE faculty that ECE 3413 be accepted as a substitute for ECE 3183, and the motion passed with unanimous consent in the January 30, 2015 ISE faculty meeting. The ISE department head was notified by email on May 28, 2015, that ECE 3183 would no longer be offered, effective for the summer 2015 term and beyond, which prompted this proposal for a permanent change to the curriculum.

CHE 3413 is a co-requisite course for IE 3323. In recent semesters, student in industrial engineering have not been able to take CHE 3413 before or at the same time as enrollment in IE 3323. This is due to limited availability of CHE 3413, as well as it being scheduled at the same time as another required IE course, IE 4613. The ISE undergraduate committee reviewed possible alternative courses. ME 3403 was determined to be a suitable alternative. The ISE undergraduate committee presented a recommendation to the ISE faculty that ME 3403 be included in the curriculum as an alternative for CHE 3413, and the motion passed with unanimous consent in the May 8, 2015 ISE faculty meeting.

4. SUPPORT

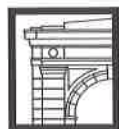
See attached letters from ISE faculty, ECE, ME, and CHE.

5. PROPOSED 4-LETTER ABBREVIATION

No change

6. EFFECTIVE DATE

Spring 2016




August 11, 2015


To: Bagley College of Engineering Committee on Courses and Curricula
University Committee on Courses and Curricula


From: Senior Faculty, Department of Industrial & Systems Engineering

RE: Curriculum Modifications, Bachelor of Science in Industrial Engineering

The senior faculty of the Department of Industrial & Systems Engineering have reviewed the application for the following curriculum modifications: replacing ECE 3183 with ECE 3413, and adding ME 3403 as an alternative to CHE 3413. The senior faculty unanimously approved these changes in department faculty meetings, and offer full support.




Linkan Bian


Stanley F. Bullington

Ra'ed Jaradat

Mohammad Marufuzzaman

Hugh Medal

Brian Smith

Lesley Strawderman

John M. Usher



MISSISSIPPI STATE UNIVERSITY
JAMES WORTH
BAGLEY
COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL
& COMPUTER ENGINEERING

Nicolas H. Younan
Department Head and Professor
James Worth Bagley Chair
younan@ece.msstate.edu

August 18, 2015

Dr. John Usher
Department of Industrial and Systems Engineering
P.O. Box 9542, 260 McCain Hall
Mississippi State, MS 39762

Dear John:

Starting spring 2016, ECE 3183 - EE Systems is no longer offered by the Department Electrical and Computer Engineering (ECE) department. The recent changes to the Fundamentals of Engineering Exam have made ECE 3413 – Intro to Electronic Circuits the more appropriate course for non-ECE majors. After soliciting feedback and reviewing the impact on students, we have decided to replace ECE 3183 (EE Systems) with ECE 3413 (Intro to Electronic Circuits). If additional information is needed, feel free to contact me.

Sincerely,

Nicolas H. Younan, Ph.D.
Department Head and Professor
James Worth Bagley Chair

August 12, 2015

RE: CHE 3413 in the IE curriculum

To Whom It May Concern:

I am writing this letter in support of the proposal for modification of the BS industrial engineering program. The industrial engineering faculty have requested to change their requirement for materials from "CHE 3413" to "CHE 3413 or ME 3403." We support this change in their curriculum.

If you need further documentation of support, please contact me.

A handwritten signature in black ink, appearing to read "Bill Elmore". The signature is fluid and cursive, with the first name "Bill" and last name "Elmore" clearly distinguishable.

Bill Elmore, Ph.D.
Interim Director, Associate Professor, and Hunter Henry Chair
Dave C. Swalm School of Chemical Engineering
Mississippi State University
elmore@che.msstate.edu
(662)325-7206



MISSISSIPPI STATE UNIVERSITY-
JAMES WORTH
BAGLEY
COLLEGE OF ENGINEERING

DEPARTMENT OF
MECHANICAL ENGINEERING

Dr. Pedro J. Mago
Department Head and Professor
PACCAR Chair
mago@me.msstate.edu

August 12, 2015

RE: Adding ME 3403 to the IE curriculum

To Whom It May Concern:

I am writing this letter in support of the proposal for modification of the BS industrial engineering program. The industrial engineering faculty have requested to change their requirement for materials from "CHE 3413" to "CHE 3413 or ME 3403." Industrial engineering students have often taken ME 3403, Materials for ME Design, as a substitution to CHE 3413, Engineering Materials, and have done well in the course. We support this change in their curriculum.

If you need further documentation of support, please contact me.

Sincerely,

Pedro J. Mago
Department Head and Professor
PACCAR Chair
Mechanical Engineering Department
210 Carpenter Building, Mail Stop 9552
Mississippi State University
Mississippi State, MS 39762
E-mail: mago@me.msstate.edu

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

College: Engineering

Department: Industrial & Systems Engineering

Contact Person: Lesley Strawderman

Mail Stop: 9542

E-mail: strawderman@ise.msstate.edu

Nature of Change: Add Minor

Date Initiated: 11/17/2014 **Effective Date:** Fall 2015

Degree to be offered at: Starkville (Campus 1)

Current Degree Program Name:

Major:

Concentration:

New Degree Program Name:

Major:

Concentration:

Summary of Proposed Changes:

This is a proposal to add an Industrial Engineering minor to be administered by the Department of Industrial & Systems Engineering. Upon approval by the UCCC, the minor will become an additional offering in the Department of Industrial and Systems Engineering in the Bagley College of Engineering. It will enable students enrolled in other engineering disciplines to enhance their education by broadening their topical coverage to include those in industrial engineering. The 15 hours required for the minor include 3 required and 2 elective courses within industrial engineering.

Approved:

Date:

Department Head

Chair, College or School Curriculum Committee

Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council



IHL Action Required



SACS Letter Sent

PROPOSAL
Industrial Engineering Minor
Department of Industrial & Systems Engineering
Mississippi State University
November 2014

1. CATALOG DESCRIPTION

Industrial engineering is an academic discipline with applicability to a broad range of students from other majors. Engineering majors specifically may wish to complement their degree programs with a minor in industrial engineering to demonstrate knowledge and competence in industrial engineering areas. Completion of the minor requirements should prepare students to apply fundamental principles of industrial engineering, such as production control, operations improvement, and engineering management, to their chosen career field.

Only students with the Bagley College of Engineering are eligible for a minor in industrial engineering. Students majoring in industrial engineering are not eligible.

A minor in industrial engineering consists of three required courses for all students pursuing the minor and two restricted elective courses:

Course	Title	Credit Hours
IE 3913	Engineering Economy	3
IE 4613	Engineering Statistics 1	3
IE 4333	Production Control 1	3
Choose 2 additional industrial engineering courses from this list:		
IE 3123/3121	Industrial Ergonomics	4
IE 4113	Human Factors Engineering	3
IE 4173	Occupational Safety Engineering	3
IE 4513	Engineering Administration	3
IE 4533	Project Management	3
IE 4543	Logistics Engineering	3
IE 4553	Engineering Law and Ethics	3
IE 4573	Process Improvement Engineering	3
IE 4653	Industrial Quality Control 1	3
IE 4733	Linear Programming 1	3
IE 4753	Systems Engineering and Analysis	3

2. CURRICULUM OUTLINE

PROPOSED New Degree	
Degree: MINOR	
Major: Industrial Engineering (IE)	
Concentration:	
<p>Industrial engineering is an academic discipline with applicability to a broad range of students from other majors. Engineering majors specifically may wish to complement their degree programs with a minor in industrial engineering to demonstrate knowledge and competence in industrial engineering areas.</p> <p>Completion of the minor requirements should prepare students to apply fundamental principles of industrial engineering, such as production control, operations improvement, and engineering management, to their chosen career field. Only students with the Bagley College of Engineering are eligible for a minor in industrial engineering. Students majoring in industrial engineering are not eligible. A minor in industrial engineering consists of three required courses for all students pursuing the minor and two restricted elective courses.</p>	
"[Click here and type new concentration description]"	
Proposed Curriculum Outline	Required Hours
Students will complete the following three required courses: <ul style="list-style-type: none"> • IE 3913, Engineering Economy • IE 4613, Engineering Statistics 1 • IE 4333, Production Control 1 	9
Students will select two of the following courses to complete the IE minor: <ul style="list-style-type: none"> • IE 3123/3121, Industrial Ergonomics • IE 4113, Human Factors Engineering • IE 4173, Occupational Safety Engineering • IE 4513, Engineering Administration • IE 4533, Project Management • IE 4543, Logistics Engineering • IE 4553, Engineering Law and Ethics • IE 4573, Process Improvement Engineering • IE 4653, Industrial Quality Control 1 • IE 4733, Linear Programming 1 • IE 4753, Systems Engineering and Analysis 	6
Total Hours	15

As a result of the new minor in industrial engineering, the Department of Industrial & Systems Engineering will add no new courses to those currently offered.

3. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Students completing the Industrial Engineering minor will be able to:

- Evaluate alternative engineering proposals using economic measures of effectiveness, cost, break even analysis, and replacement analysis.

- Describe a system by collecting data and calculating appropriate statistics.
- Construct and analyze forecast models, inventory models, and production schedules for systems exhibiting various demand characteristics.
- Understand and articulate the value-added role of industrial engineers in a production, distribution, and service systems.

Learning outcomes will be assessed by direct measures embedded in course assignments.

The effectiveness of the minor will be evaluated by periodic review of the numbers of students actively pursuing the minor, the number of graduates completing the minor, and the average grade point average of those in the program.

4. SUPPORT

- A letter of support from the Department of Industrial & Systems Engineering faculty is included with this proposal.
- A letter of support from academic department heads within the Bagley College of Engineering is included in this proposal.

5. EFFECTIVE DATE

Fall 2015



INDUSTRIAL & SYSTEMS ENGINEERING

DEPARTMENT OF INDUSTRIAL & SYSTEMS ENGINEERING
260 McCain Engineering Building
Post Office Box 9542
Mississippi State, MS 39762
Phone: 662.325.3865 Fax: 662.625.7618
<http://www.lse.msstate.edu>

November 18, 2014

To: Bagley College of Engineering Committee on Courses and Curricula
University Committee on Courses and Curricula

From: Senior Faculty, Department of Industrial & Systems Engineering

RE: Minor in Industrial Engineering

The senior faculty of the Department of Industrial & Systems Engineering have reviewed the application for the proposed minor in Industrial engineering. The senior faculty unanimously approved the offering of the minor at a department faculty meeting. We offer full support of the proposed Industrial engineering minor.

Kari Babski-Reeves

Linken Bian

Stanley F. Bullington

Mengqi Hu

Hugh Medal

Lesley Strawderman

John M. Usher

MISSISSIPPI STATE
UNIVERSITY


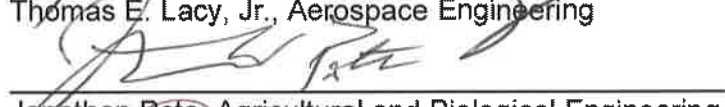
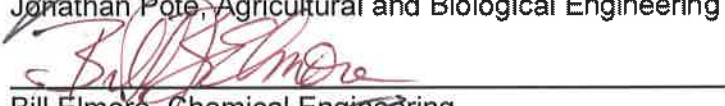
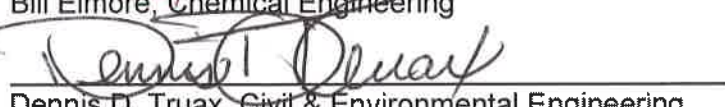
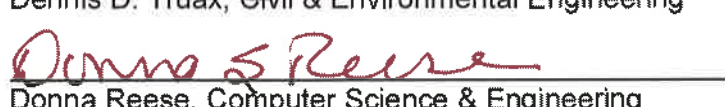
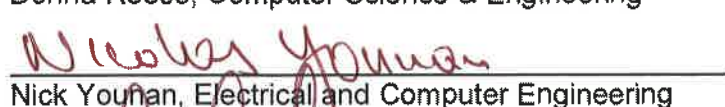

May 7, 2015

To: Bagley College of Engineering Committee on Courses and Curricula
University Committee on Courses and Curricula

From: Academic Department Heads, Bagley College of Engineering

RE: Minor in Industrial Engineering

We have reviewed the proposal for a minor in Industrial Engineering that will be made available to students in all engineering disciplines upon approval. An indication of support is shown below.

Support Proposal	Do Not Support Proposal	
<u>X</u>	_____	 Thomas E. Lacy, Jr., Aerospace Engineering
<u>X</u>	_____	 Jonathan Pote, Agricultural and Biological Engineering
<u>X</u>	_____	 Bill Elmore, Chemical Engineering
<u>X</u>	_____	 Dennis D. Truax, Civil & Environmental Engineering
<u>X</u>	_____	 Donna Reese, Computer Science & Engineering
<u>X</u>	_____	 Nick Younan, Electrical and Computer Engineering
<u>X</u>	_____	 Pedro Mago, Mechanical Engineering

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

College: Engineering Department: Mechanical Engineering
 Contact Person: Rogelio Luck Mail Stop: 9552 E-mail: luck@me.msstate.edu
 Nature of Change: Modification Date Initiated: 08/18/2015 Effective Date: Spring 2016
 Degree to be offered at: Starkville (Campus 1)
 Current Degree Program Name: Bachelor of Science
 Major: Mechanical Engineering Concentration:

New Degree Program Name:

Major:

Concentration:

Summary of Proposed Changes:

Change one required course, as the course currently listed is no longer offered. Instead of requiring ECE 3183 (no longer offered), we will require ECE 3413.

Delete Physics III (PH 2233) from Math/Science core.

Add a new course ME 3163 Introduction to Design and Finite Element Analysis to ME-Engineering topics.

Approved:

Date:

Department Head

Chair, College or School Curriculum Committee

Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

☐ IHL Action Required

☐ SACS Letter Sent



August 21, 2015

University Committee on Courses and Curricula
281 Garner Hall
Mailstop 9702
Mississippi State University

RE: Curriculum Modification of the B.S. in Mechanical Engineering

UCCC Committee:

We, the Undergraduate Committee of the Department of Mechanical Engineering, provide our support for the curriculum modification of the B.S. in Mechanical Engineering as proposed in the attached proposal.

Please do not hesitate to contact us if any additional information is needed.

Sincerely,

 Dr. Rogelio Luck, Professor	<u>8/20/15</u> Date	 Dr. Scott Thompson, Assistant Professor	<u>08/20/15</u> Date
 Dr. Richard Patton, Associate Professor	<u>8/20/15</u> Date	 Dr. Nima Shamsaei, Assistant Professor	<u>8/20/15</u> Date
 Dr. Sundar Krishnan, Associate Professor	<u>8/20/15</u> Date	 Dr. Alta Knizley, Instructor	<u>8/20/15</u> Date
 Dr. Yucheng Liu, Associate Professor	<u>8/20/15</u> Date	 Mr. Dustin Spayde, Instructor	<u>8/20/15</u> Date



MISSISSIPPI STATE UNIVERSITY
JAMES WORTH
BAGLEY
COLLEGE OF ENGINEERING

DEPARTMENT OF
MECHANICAL ENGINEERING

Dr. Pedro J. Mago
Department Head and Professor
PACCAR Chair
mago@me.msstate.edu

August 21, 2015

University Committee on Courses and Curricula
281 Garner Hall
Mailstop 9702
Mississippi State University

RE: Curriculum Modification of the B.S. in Mechanical Engineering

UCCC Committee:

The Mechanical Engineering faculty, with the involvement and support of the Mechanical Engineering Advisory Board, tasked the Mechanical Engineering (ME) Undergraduate Committee to evaluate and analyze the current curriculum of the Bachelor of Science in Mechanical Engineering. This was an effort to ensure that graduates of our program are prepared for the demands of the changing environment and to meet the future needs of our constituencies, as part of the mission of ABET, the engineering accrediting board. After evaluating the current curriculum, the ME Undergraduate Committee determined that graduates of our program require additional in-depth exposure to Finite Element Analysis. The ME Undergraduate Committee presented this information to the full Mechanical Engineering faculty and it was decided that the creation of a new course and a curriculum modification was the preferred process to incorporate Finite Element Analysis into the Mechanical Engineering curriculum.

I fully support the curriculum changes recommended in the attached proposal. If I can provide any additional information please feel free to contact me.

Sincerely,

Pedro J. Mago
Department Head and Professor
PACCAR Chair
Mechanical Engineering Department



MISSISSIPPI STATE UNIVERSITY
JAMES WORTH
BAGLEY
COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL
& COMPUTER ENGINEERING

Nicolas H. Younan
Department Head and Professor
James Worth Bagley Chair
younan@ece.msstate.edu

August 19, 2015

Dr. Pedro Mago, Department Head
Department of Mechanical Engineering
P.O. Box 9552, 314 Carpenter Hall
Mississippi State, MS 39762

Dear Pedro:

Starting spring 2016, ECE 3183 - EE Systems is no longer offered by the Department Electrical and Computer Engineering (ECE) department. The recent changes to the Fundamentals of Engineering Exam have made ECE 3413 – Intro to Electronic Circuits the more appropriate course for non-ECE majors. After soliciting feedback and reviewing the impact on students, we have decided to replace ECE 3183 (EE Systems) with ECE 3413 (Intro to Electronic Circuits). If additional information is needed, feel free to contact me.

Sincerely,

Nicolas H. Younan, Ph.D.
Department Head and Professor
James Worth Bagley Chair

Proposal for the Modification of the B.S. in Mechanical Engineering

1. CATALOG DESCRIPTION

No changes proposed.

2. CURRICULUM OUTLINE

Detailed list of changes

- Change one required course, as the course currently listed is no longer offered. Instead of requiring ECE 3183 (no longer offered), we will require ECE 3413.
- Delete Physics III (PH 2233) from Math/Science core.
- Add a new course ME 3163 Introduction to Design and Finite Element Analysis to ME-Engineering topics.

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Mechanical Engineering Concentration:	Degree: Bachelor of Science Major: Mechanical Engineering Concentration:
Mechanical Engineering is the application of science and mathematics to the design, development, and operation of mechanical and energy systems. Examples of these systems include mechanical devices ranging from simple linkages and gears to complex automated robots and energy systems ranging from basic water pumps to high-performance jet engines. Since the range of applications is so broad, virtually all industries employ Mechanical Engineers in various capacities. Some of the major areas of employment are the manufacturing, chemical, paper, aerospace, utility, construction, transportation, petroleum, electronics, and computer industries.	Mechanical Engineering is the application of science and mathematics to the design, development, and operation of mechanical and energy systems. Examples of these systems include mechanical devices ranging from simple linkages and gears to complex automated robots and energy systems ranging from basic water pumps to high-performance jet engines. Since the range of applications is so broad, virtually all industries employ Mechanical Engineers in various capacities. Some of the major areas of employment are the manufacturing, chemical, paper, aerospace, utility, construction, transportation, petroleum, electronics, and computer industries.
The mission of the Department of Mechanical Engineering is to educate students in fundamental engineering principles, thus enabling the understanding of existing and next generation technologies relevant to research and engineering practice. All graduates will receive a broad education that will enable them to be successful in industry or academia, the profession and the community.	The mission of the Department of Mechanical Engineering is to educate students in fundamental engineering principles, thus enabling the understanding of existing and next generation technologies relevant to research and engineering practice. All graduates will receive a broad education that will enable them to be successful in industry or academia, the profession and the community.
To carry out this mission, the Mechanical Engineering faculty, with input from other	To carry out this mission, the Mechanical Engineering faculty, with input from other

constituencies, has established the following objectives that describe the expected accomplishments of graduates during the first few years following graduation:

1. Apply fundamental engineering knowledge, industry perspective and research skills to become experts or leaders within a chosen engineering career path.
2. Exhibit life-long learning and develop personal and teamwork skills in order to effectively solve real-life problems and clearly communicate their results.
3. Practice ethical responsibility and accountability in professional activities and actively participate in professional development.

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

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

constituencies, has established the following objectives that describe the expected accomplishments of graduates during the first few years following graduation:

1. Apply fundamental engineering knowledge, industry perspective and research skills to become experts or leaders within a chosen engineering career path.
2. Exhibit life-long learning and develop personal and teamwork skills in order to effectively solve real-life problems and clearly communicate their results.
3. Practice ethical responsibility and accountability in professional activities and actively participate in professional development.

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

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

n/a		n/a	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English EN 1103, EN 1113	6	English EN 1103, EN 1113	6
Fine Arts	3	Fine Arts	3
Humanities	6	Humanities	6
Social/Behavioral Sciences	6	Social/Behavioral Sciences	6
Major Core		Major Core	
Mathematics	18	Mathematics	18
MA 1713, MA 1723, MA 2733, MA 2743, MA 3113, MA 3253		MA 1713, MA 1723, MA 2733, MA 2743, MA 3113, MA 3253	
Science	16	Science	13
CH 1211, CH 1213, CH 1223, PH 2213 PH 2223, PH 2233		CH 1211, CH 1213, CH 1223, PH 2213 PH 2223	
Engineering Topics	21	Engineering Topics	21
CSE 1233, ECE 3183, EM 2413, EM 2433, EM 3213, EM 3313, IE 3913		CSE 1233, ECE 3413, EM 2413, EM 2433, EM 3213, EM 3313, IE 3913	
ME Topics	43	ME Topics	46
ME 1111, ME 2133, ME 3103, ME 3113, ME 3313, ME 3403, ME 3423, ME 3513, ME 3523, ME 3613, ME 4111, ME 4301 ME 4333, ME 4401, ME 4403 ME 4443, ME 4643		ME 1111, ME 2133, ME 3103, ME 3113, ME 3163, ME 3313, ME 3403, ME 3423, ME 3513, ME 3523, ME 3613, ME 4111, ME 4301, ME 4333, ME 4401, ME 4403, ME 4443, ME 4643	
ME Technical Electives	6	ME Technical Electives	6
Writing Requirement GE 3513	3	Writing Requirement GE 3513	3
Total Hours	128	Total Hours	128

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

There is no change in student learning outcomes.

For the ECE replacement course, ME was informed that ECE 3183 would no longer be offered by the ECE Department. The ECE Department recommended that ECE 3413 would be a suitable alternative, and the ME faculty agreed.

For the addition of ME 3163 Introduction to Design and Finite Element Analysis this is driven by the need to incorporate a more formal and structured introduction to Finite Element Analysis and to provide additional exposure to machine design topics. This new course will allow the mechanical engineering students to be better prepared for their senior design projects.

In order to accommodate the new ME 3163 course the ME faculty with support of the ME Advisory Board determined that the deletion of PH 2233 would least affect the learning outcomes of the department. This is consistent with other engineering majors in the BCOE, which only require PH2213 and PH2223.

Benefits

The ECE course change will allow students to continue to take an ECE course to develop breadth

of engineering knowledge in the electrical engineering domain.

The ME curriculum change of the addition of ME 3163 Introduction to Design and Finite Element Analysis will allow the ME students to acquire the computational design skills necessary to comply with the accreditation standards set by ABET. The addition of this course will allow us to have a competitive program similar to our peer universities. Peer institutions include University of Alabama, Tennessee Technological University, University of Arkansas, and University of Florida. The design based skills of our undergraduate students will be enhanced, increasing their relevance in the professional community.

Upon completion of this course students will have a working knowledge of finite element analysis. They will have the ability to utilize commercial software to perform one-dimensional, two-dimensional, and three-dimensional finite element analysis to compute stresses, strains, and displacements under prescribed loadings, and to access the factor of safety for a given failure mode. The machine design course ME 4403 will be strengthened, allowing for our undergraduate students to have an improved understanding of machine element design.

Detailed Rationale

The ME program coordinator was notified by email on January 21, 2015, about the possibility of ECE 3183 no longer being offered, and that ECE 3413 would be modified to be suitable for non-majors. The ME undergraduate committee presented a recommendation to the ME faculty that ECE 3413 be accepted as a substitute for ECE 3183, and the motion passed with unanimous consent in the May 13, 2015 ME faculty retreat. The ME department head was notified by email on May 28, 2015, that ECE 3183 would no longer be offered, effective for the summer 2015 term and beyond, which prompted this proposal for a permanent change to the curriculum.

Within the field of Mechanical Engineering, computer based stress analysis is now commonplace as a means to supplement hand calculations when designing machine elements. The most widely used approach is finite element analysis. In the modern world, industry expects engineers holding a BS degree in mechanical engineering to have a working knowledge of finite element analysis. Currently the mechanical engineering undergraduate curriculum does not have a required course that teaches an introduction to finite element analysis. This proposed course ME 3163 Introduction to Design and Finite Element Analysis will serve to provide this introduction. In addition, introductory stress analysis topics currently taught in ME 4403 Machine Design will be moved to the new course, allowing ME 4403 to cover individual component design more thoroughly. This proposed curriculum modification was presented, discussed and approved during the ME Undergraduate Committee meeting on March 24, 2015. The full faculty of Mechanical Engineering approved the creation and addition of an Introduction to Design and Finite Element Analysis and the deletion of PH 2233 Physics IIII from the Mechanical Engineering curriculum during the ME faculty retreat on May 15, 2015.

4. SUPPORT

See attached letters from ME faculty and ECE faculty.

5. PROPOSED 4-LETTER ABBREVIATION

No Change

6. EFFECTIVE DATE

Spring 2016

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

College: Forest Resources **Department:** Sustainable Bioproducts

Contact Person: Rubin Shmulsky **Mail Stop:** 9820 **E-mail:** rs26@msstate.edu

Nature of Change: Name Change -- IHL Approval Required

Date Initiated: 5/21/15 **Effective Date:** Spring 2016

Degree to be offered at: Starkville Campus (Campus 1)

Current Degree Program Name: Master of Science

Major: Forest Products **Concentration:** N/A

New Degree Program Name:

Major: Sustainable Bioproducts **Concentration:** N/A

Summary of Proposed Changes:

This is a name change. In 2013, the name of Department of Forest Products was changed to the Department of Sustainable Bioproducts. The requested change will update the major to reflect the departmental name. No other changes to courses or degree requirements are required.

Approved:

Dr. Rubin Shmulsky
Department Head

Dr. David Jones
Chair, College or School Curriculum Committee

Dr. George Hopper
Dean of College or School

Dr. Kirk Swortzel
Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

Date:

Rubin Shmulsky 6/1/15

David Jones 6/1/15

G. Hopper 6/4/15

☐ IHL Action Required

☐ SACS Letter Sent

CURRENT TITLE AND DESCRIPTION:

M.S. Forest Products

The Forest Products field is concerned with extending our knowledge of wood as a material and applying this knowledge to the manufacture of useful products. It requires knowledge of the chemical, physical, botanical, and engineering sciences and how they impinge on wood.

PROPOSED TITLE AND DESCRIPTION:

M.S. Sustainable Bioproducts

The Sustainable Bioproducts field is concerned with extending our knowledge of wood as a material and applying this knowledge to the manufacture of useful products. It requires knowledge of the chemical, physical, botanical, and engineering sciences and how they impinge on wood.

JUSTIFICATION:

The home department, Sustainable Bioproducts formally changed its name in 2014. As part of the ongoing transition to the new name and focus, it was determined by the faculty that the academic programming at the graduate level should be updated and renamed appropriately.

RELATION TO EXISTING CURRICULA:

There are no other Mississippi institutions offering the same degree program. Furthermore, apart from syllabi name changes, no major curriculum changes were made.

PROPOSED 4-LETTER ABBREVIATION:

SBP (3 letter) / SBPS (if 4 letter is needed)

EFFECTIVE DATE:

Spring 2016

**Appendix 9a: Modifications to Existing Degree Program Proposal
(Renaming)
(Submit Appendix 9a in both PDF and Word Document Formats)**

Institution:			
Date of Implementation:	Present Six Digit CIP Code(s):	New Six Digit CIP Code:	
1/1/2016	03.0509		
Present Program Title(s) as Appear(s) on Academic Program Inventory, Diploma, and Transcript:		New Program Title as will Appear on Academic Program Inventory, Diploma, and Transcript:	
Forest Products		Sustainable Bioproducts	
Degree(s) to be Awarded:		Credit Hour Requirements:	
Master of Science		24 + 6 (Thesis) / 30 (Non-Thesis)	
List any institutions within the state offering similar programs:			
None			
Responsible Academic Unit(s):		Institutional Contact:	
College of Forest Resources		Dr. Rubin Shmulsky	
Number of Students Enrolled in Last Six Years:		Number of Graduates Expected in Next Six Years:	
Year One	10	Year One	10
Year Two	10	Year Two	10
Year Three	10	Year Three	10
Year Four	10	Year Four	10
Year Five	10	Year Five	10
Year Six	10	Year Six	10
Total	60	Total	60
<p>Program Summary: The Sustainable Bioproducts field is concerned with extending our knowledge of wood and other biobased products as materials, chemicals, and energy and applying this knowledge to the manufacture of useful products, chemicals, and energy. It requires knowledge of the chemical, physical, botanical, and engineering sciences and how they relate to wood and biobased products. Graduate study in the Department of Sustainable Bioproducts leads to the Master of Science degree; either thesis or non-thesis option. Major areas of study include composite products, coatings, environmental biotechnology, preservation, business and production systems, lignocellulosic chemistry, furniture, structural products evaluation, bioenergy, and biobased chemicals.</p>			
Chief Academic Officer Signature		Date	
Institutional Executive Officer Signature		Date	

Institution:

1. Describe how the proposed modification fits within the mission of the institution.

This degree promotes the education and training of students at the post baccalaureate level. This modification is a name change of an existing degree program which currently educates and trains junior professionals in this particular field of study at MSU.

2. Is this modification unnecessarily duplicative of other programs within the System?

No, there are no other programs resembling the current program proposed.

3. Describe the anticipated institutional impact including any research efforts associated with this program.

This proposed name change associated with this existing program will better serve and connect with students who wish to study, learn about, and ultimately work in the Bioproducts / forest based products professions.

4. Are there any anticipated budget savings associated with the proposed modification?

None

5. Are there any changes to the educational objectives of the degree program associated with the proposed modification?

None

6. Are there any changes to the curriculum of the degree program associated with the proposed modification?

No

7. Describe how the proposed modification will affect program faculty.

There will be no change.

8. Describe the evaluation process which led to the request for the proposed modification.

The home department, Sustainable Bioproducts (formerly Forest Products) formally changed its name in 2014. As part of the ongoing transition to the new name and focus, it was determined by the faculty that the academic programming at the graduate level should be updated and renamed appropriately.