

UNIVERSITY COMMITTEE ON COURSES AND CURRICULA

A MEMORANDUM

DATE: February 6, 2018

TO: UCCC Members

FROM: Dr. Dana Pomykal Franz, Chair

SUBJECT: February 16, 2018 Meeting

Enclosed are the minutes from the meeting on January 19, 2018 and the agenda and proposals for the meeting on Friday, February 16, 2018 beginning at 1:30 p.m. The meeting will be held in the Trotter Room (Room 2200) of the Center for Advanced Vehicular Systems in the Research Park. Please contact the UCCC office if you are unable to attend.

Thank you.

Enclosures: January 19, 2018 Meeting Minutes Course/Curriculum Proposals

AGENDA UNIVERSITY COMMITTEE ON COURSES AND CURRICULA February 16, 2018

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

AGRICULTURE AND LIFE SCIENCES

+Distance	AELC 3203	Professional Writing in Agriculture, Natural Resources,
		and Human Sciences

ENGINEERING

Addition	<u>GE 8003</u>	Master of Engineering Capstone Course
+Distance		
Addition	<u>PTE 1101</u>	Introduction to Petroleum Engineering
Addition	<u>PTE 4983</u>	Petroleum Engineering Capstone Design

FOREST RESOURCES

Addition	NREC 4313	Spatial Technologies in Natural Resources Management
Addition	<u>NREC 4573</u>	Ecology of Managed Forests
Addition	<u>WFA 4113</u> /6113	Animal Behavior
Addition	<u>WFA 8663</u>	Movement Ecology

VETERINARY SCIENCE

_			
	Addition	<u>CVM 5382</u>	Cytology Elective

4. Degree proposals by college/school

AGRICULTURE AND LIFE SCIENCES

Modification	Minor	Gerontology (Tabled at Jan. 19, 2018 meeting)
Modification	MS	Human Development and Family Studies
Modification	Ph.D.	Human Development and Family Studies

ENGINEERING

Addition	Minor	Electrical Engineering
Modification	BS	Petroleum Engineering

University Committee on Courses and Curricula Mississippi State University January 19, 2018

Members Present:	Amy Adkerson, Shrinidhi Ambinakudige, Randy Campbell, Russell Carr, Cody Coyne, Amy Crumpton, Dana Franz, Seamus Freyne, Charles Freeman, Kevin Hunt, Brenda Kirkland, Pat Matthes, Rob Moore, Kelly Moser, Greg Olsen, Emily Owen, Prem Parajuli, Tommy Parker, Andy Perkins, Tommy Phillips, Wendy Roussin, Kathy Sherman-Morris, Brad Trinkle, Jenny Turner, Jeff Winger, Robert Wolverton, Chien Yu
Absent:	Ben Macklin, Erin McDevitt, Charles Provine
Excused:	Holly Holladay, Trey Howell, Barry Stewart, Erica Waldman
Proxy:	Kayla Pineda for Tracey Baham
Guests:	Stephanie King, Andrew Mercer, Lynda Moore, Dan Punday, Peter Ryan, Gregg Twietmeyer, Calvin Walker

Franz called the meeting to order at 1:30 p.m. on Wednesday, January 18, 2018 in room 324 of the Student Union. Franz introduced Dr. Peter Ryan, Associate Provost. Dr. Ryan thanked the committee members for their service on the committee, stressed the importance of the committee's work to insure quality curriculum for MSU students, and discussed the revisions to the UCCC workflow process and Course Inventory Management software forms. A committee member asked Dr. Ryan if part of the revisions to the workflow process would include colleges and schools handling more of the process without further UCCC review. Dr. Ryan replied that current course and program proposals will continue to flow through the UCCC.

The UCCC Office received one nomination for the UCCC Chairperson for 2018-2019, and the nomination was Dr. Dana Franz. Franz was unanimously reelected UCCC Chairperson for 2018-2019.

Franz announced UCCC member Holladay is promoting a graduate research symposium on February 17, 2018 and needs faculty members to serve as judges. The UCCC Office will be forwarding Holladay's information by email about how to volunteer as a judge.

Carr moved to approve the December 13, 2017 UCCC minutes. Hunt seconded the motion. A committee member was concerned there is not enough detail in the minutes about syllabi issues in the course proposals. Turner asked the committee member to email specific information that needs to be included in the minutes. Moser moved to pass the minutes contingent upon the committee member's concerns being addressed. Parajuli seconded the motion. The motion to approve the minutes contingent was approved unanimously.

Moore moved to approve the addition of distance education to MGT 3513 Introduction to Human Resource Management. Hunt seconded the motion. Committee members discussed whether the syllabus needs more detail about subject content and whether there should be more specificity about

the exams. The motion to approve the addition of distance education to MGT 3513 was approved unanimously.

Carr moved to approve the addition of ASE 4713/6713 Introduction to Unmanned Aircraft Systems and the inclusion of distance education to ASE 4713/6713. Olsen seconded the motion. Committee members pointed out the method of instruction on the proposal indicates the course will be a lecture/lab, but the course is a lecture. Franz indicated the UCCC Office can correct that information. Committee members discussed what credentials are needed for graduate level courses and suggested the course schedule should be included on the syllabus. The motion to approve the addition of ASE 4713/6713 and the inclusion of distance education to ASE 4713/6713 was approved unanimously.

Carr moved to approve the modification of the minor in Gerontology. Parajuli seconded the motion. Committee members had questions about whether this is a minor or a certificate since the proposal mentions both and why information about the graduate certificate was being added to the catalog description but no information about the graduate certificate is included in the proposal. A faculty member was not available to answer questions about the proposal. Moser moved to table the modification of the minor in Gerontology until more information could be obtained. Crumpton seconded the motion. The motion to table the modification of the minor in Gerontology was approved unanimously.

Carr moved to approve the modification of LA 1701 Landscape Career Paths Seminar. Parajuli seconded the motion. Committee members pointed out that the courses that use LA 1701 will need to be revised by technical changes if the course name for LA 1701 is included in the catalog descriptions. The motion to approve the modification of LA 1701 was approved unanimously.

Carr moved to approve the modification and inclusion of distance education to PE 3223 Motor Development and Movement. Parajuli seconded the motion. The subcommittee that reviewed the proposal pointed out the number of credit hours on the course proposal needs to be revised to 3 (instead of 0,3) since the course no longer includes a lab; the catalog description needs editing because there appears to be words missing from the description; and an attendance policy needs to be added to the syllabus. Perkins moved to pass the modification and inclusion of distance education to PE 3223 contingent upon the above concerns being addressed. Hunt seconded the motion. The motion to pass the modification and inclusion of distance education to PE 3223 was approved unanimously.

Carr moved to approve the additions of SS 3903 Ancient and Medieval Sport History, SS 4003 Philosophy of Sport & Physical Activity, and SS 8893 History and Philosophy of Sport Seminar. Perkins seconded the motion. Dr. Gregg Twietmeyer appeared in support of the proposals. The committee discussed whether letters of support from other departments were necessary since the new courses touched on the subjects of history, philosophy and the classics, and these courses would provide opportunities for cross listing with other departments. The subcommittee that reviewed the proposals made the following observations: for SO 3903 exams are 50% of the course grade but no detail is provided about how many exams will be given, the first sentence in the second paragraph under Justification needs to be edited or deleted, and My Courses is referred to as My Course; for SS 4003/6003, taking the grades out to two decimal places may be confusing; and it is not clear if an exam will be given after each unit or if the units will be grouped together for testing. The motion to approve the additions of SS 3903, SS 4003 and SS 8893 was approved unanimously. Franz indicated she would email the proposal initiator to inform him of the discussions and indicate the UCCC encouraged interdisciplinary opportunities with these courses.

Parajuli moved to approve the modification of the Ph.D. in Community College Leadership. Crumpton seconded the motion. Committee members pointed out the number of program credit hours on the cover/signature page is incorrect. Franz indicated that can be revised by the UCCC Office. The motion to approve the modification of the Ph.D. in Community College Leadership was unanimously approved.

Hunt moved to approve the modification and addition of distance education to EN 2203 Introduction to Literature. The subcommittee that reviewed the proposal discussed whether the assignments should be outlined in the syllabi for Campus 1 & Campus 5 and whether general education courses may be restricted but determined these were not issues. The subcommittee also pointed out there are typographical errors in the Campus 1 and Campus 5 Equivalency table for the content areas that need to be revised. Moser moved to pass the modification and addition of distance education to EN 2203 contingent on the typographical errors being revised. Parajuli seconded the motion. The motion to pass the modification and addition of distance education to EN 2203 contingent was approved unanimously.

Kirkland moved to approve the modification of GG 4063/6063 Earth and Atmospheric Energy Resources. Yu seconded the motion. The committee discussed how graduate students would be graded. The motion to approve the modification of GG 4063/6063 was approved unanimously.

Kirkland moved to approve the modification and addition of the general education designation for GR 1604 Weather and Climate and the addition of distance education for GR 4733/6733 Synoptic Meteorology. Parajuli seconded the motion. Subcommittee members who reviewed the proposals pointed out that GR 1603 is being revised to GR 1604, and a program proposal is needed to accompany the course proposal because the course is required in the program concentrations; the catalog description should be revised to indicate it is a two hour lab instead of a one hour lab; there is a lack of description about the lab assignments, and the lab is only 15% of the final grade and that may need to be reviewed. Hunt moved to pass the modification and addition of the general education designation for GR 1604 contingent upon the above concerns being addressed. The motion to pass GR 1604 contingent was unanimously approved. The committee then unanimously approved the addition of distance education for GR 4733/6733.

Moore, Director of the University Academic Advising Center, announced she is working with a committee to compile the GPA requirements for each department/major on campus to make the information available to students. Moore also gave an update on the Complete to Compete program.

Moser moved to adjourn. Hunt seconded the motion. The motion to adjourn was unanimously approved. The meeting was adjourned at 3:15 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 to UCCC Mail Stop 9702 (281 Garner Hall), Phone: 325-9410.

College: Ag & Life Sciences

Department: School of Human Sciences

Contact Person: Joe D. Wilmoth Mail Stop: 9745 E-mail: joe.wilmoth@msstate.edu Nature of Change: Minor Modification Date Initiated: 11/27/17 Effective Date: Fall 2018 Current Degree Program Name:

Major:

Concentration:

Minor: Gerontology

New Degree Program Name:

Major:

Concentration:

Summary of Proposed Changes:

This university-wide, multidisciplinary minor includes courses from multiple colleges and departments. The Gerontology Committee recommends changes in courses included in the minor to reflect what courses currently are offered on campus.

In addition, changes are recommended in the program description to clarify the distinction between the undergraduate minor and the graduate certificate.

Approved:

E. Meuman **Department Head**

Chain College or School Curriculum Committee

Date:

12-1-17

18

1.3.1B

OR GH Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

DEGREE MODIFICATION OUTLINE FORM

CURRENT Degree Description		PROPOSED Degree Description	
Degree:		Degree:	
Major:		Major:	
Concentration:		Concentration:	
Minor: Gerontology The Gerontology Minor/Certificate provides with current factual and theoretical data alon practical experience relating to the process of is a multidisciplinary effort with contribution variety of departments cutting across several Students completing the requirements will ea minor/certificate in gerontology. This area of study is open to students from al within the University. The Gerontology Minor/Certificate was developed to supplem student's chosen major. Undergraduate stude wishing to complete the Gerontology require select a major in addition to electing 15 hour gerontology course work.	g with f aging. It is from a colleges. arn a Il colleges ent the ents ements will	Minor: Gerontology The Gerontology Minor/Certificate provides st current factual and theoretical data along with experience relating to the process of aging. It is multidisciplinary effort with contributions from of departments cutting across several colleges. completing the requirements will earn a minor in gerontology. This area of study is open to students from all within the University. The Gerontology Minor was developed to supplement the student's che Undergraduate students wishing to complete the undergraduate Gerontology minor requirement select a major in addition to electing 15 hours gerontology course work. Students wishing to	practical s a n a variety Students /certificate colleges /Certificate osen major. ne tts will of complete ements will
"[Click here and type old concentration desc	ription]"	select a major in addition to electing a mini hours of gerontology course work. "[Click here and type new concentration descr	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English (Ex: EN 1103 English Comp I):		English (Ex: EN 1103 English Comp I):	
Fine Arts (General Education):		Fine Arts (General Education):	D
Natural Sciences (2 labs required from Gen Ed):		Natural Sciences (2 labs required from Gen Ed):	
Extra Science (if appropriate)		Extra Science (if appropriate)	
Math (General Education):		Math (General Education):	
Humanities (General Education):		Humanities (General Education):	
Social/Behavioral Sciences (Gen Ed):		Social/Behavioral Sciences (Gen Ed):	
Major Core Courses		Major Core Courses	
Concentration Courses		Concentration Courses	
Minor Courses		Minor Courses	

 HDFS 4403 Introduction to Gerontology Choose at least three of the following: COE 4713 Issues in Aging EP 4123 Aging and Physical Activity EP 4143 Aging and Disability HDFS 4813 Adult Development: The Middle Years HDFS 4863 Consumer Aspects of Aging SO 4413 Aging and Retirement in American Society SO 4433 Sociology of Death and Dying SW 3023 Human Behavior and the Social Environment II SW 4623 Social Work with the Aged Choose one of the following (may include courses from above): HDFS 3673 Environments for Special Needs HDFS 4333 Families, Legislation and Public Policy FNH 4353 Nutrition Throughout the Life Civila 	 HDFS 4403 Introduction to Gerontology Choose at least three of the following: COE 4713 Issues in Aging EP 4123 Aging and Physical Activity EP 4143 Aging and Disability HDFS 4813 Adult Development: The Middle Years HDFS 4863 Consumer Aspects of Aging PSY 4983 Psychology of Aging SO 4413 Aging and Retirement in American Society SW 3023 Human Behavior and the Social Environment II SW 4623 Social Work with the Aged DIS (could be a Practicum in Aging) Choose one of the following (may include courses from above): FNH 3163 Basic Principles of Health Promotion FNH 3723 Community Nutrition FNH 4123 Nutrition Throughout the Life 	
Middle Years	Middle Years	
SO 4413 Aging and Retirement in	SO 4413 Aging and Retirement in	
BW 4025 Sooial Work Will morriged		
Choose one of the following (may include	Choose one of the following (may include	
	courses from above):	
Needs HDFS 4333 Families, Legislation and Public Policy	Promotion FNH 3723 Community Nutrition FNH 4123 Nutrition and Chronic Disease	

3. JUSTIFICATION AND LEARNING OUTCOMES

Change 1: Degree description was reworded for clarification.

- Change 2: SO 4433 Sociology of Death and Dying and SW 2323 Social Welfare Policy II have not been taught for several years. There courses were deleted.
- Change 3: FNH 3163 Basic Principles of Health Promotion, FNH 3723 Community Nutrition, FNH 4123 Nutrition and Chronic Disease, FNH 4233 Medical Nutrition Therapy, FNH 4353 Nutrition Throughout the Life Cycle, PSY 3813, Developmental Psychology, SW 3003 Populations at Risk, and SW 4633 Social Work in Health Care were added to the curriculum. The Gerontology Committee agreed these courses would provide appropriate and beneficial options for students.
- Change 4: A directed independent study, which could be a practicum, was moved to the core courses making up the minor. The Gerontology Committee agreed this change would strengthen the program for students.

Student learning outcomes include the following:

- 1. Students will gain knowledge of major theories and research findings related to human aging.
- 2. Students will gain practical experience related to the process of aging.
- 3. Students will gain a multidisciplinary perspective on aging.

4. SUPPORT

Letters of support from the Gerontology Committee chair and the School of Human Sciences Curriculum Committee chair are included with this proposal.

5. PROPOSED 4-LETTER ABBREVIATION

N/A

6. EFFECTIVE DATE

Fall 2018



SCHOOL OF HUMAN SCIENCES

P. O. Box 9745 Mississippi State, MS 39762 P: 662.325.2950 humansci.msstate.edu

January 2, 2018

Ms. Jessica Graves Chair, CALS Curriculum Committee Box 9815 Mississippi State, MS 39762

Ms. Graves:

On behalf of the School of Human Sciences Curriculum Committee, I have reviewed the Gerontology Minor curriculum modification proposal, and we support its approval. This university-wide program provides a unique opportunity for students in a wide variety of academic programs, and the proposed changes will strengthen this program.

Sincerely,

Joe D. Wilmoth, Chair, SHS Curriculum Committee



MISSISSIPPI STATE

Department of Psychology Magruder Hall P.O. Box 6161 255 Lee Boulevard Mississippi State, MS 39762 Phone: 662-325-3202 FAX: 662-325-7212

January 5, 2018 Ms. Jessica Graves Chair, CALS Curriculum Committee Box 9815 Mississippi State, MS 39762

Dear Ms. Graves:

I am writing this letter on behalf of the Gerontology Committee, which advises the university on the curriculum of the Gerontology Minor. I have reviewed the Gerontology Minor modification proposal with the committee, and we strongly support its approval. The university-wide Gerontology program provides instruction and research opportunities for students in academic programs throughout the university. The proposed changes will strengthen the program, and make it more compatible with newly established guidelines for Gerontology programs from the Association for Gerontology in Higher Education (AGHE).

Sincerely,

acolon Advier Alee

Associate Professor of Psychology Chair, Mississippi State University Gerontology Committee

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: Sch	ool of Human Sciences
Contact Person: Tommy M. Phillips	Mail Stop: 9745	E-mail: tom.phillips@msstate.edu
Nature of Change: Modification	Date Initiated: 0	8/17 Effective Date: Fall 2018
Degree to be offered at: Starkville (Campus	1)	
Current Degree Program Name: Master of S	cience	
Major: Human Development & Family Studi	es Conce	ntration: N/A

New Degree Program Name: Master of Science

Major: Human Development and Family Science Concentration: N/A

Summary of Proposed Changes:

- Delete focus areas and replace with 12 hours of approved electives for thesis track students and 15 hours of approved electives for non-thesis track students.
- For non-thesis track students, delete the requirement that they take 6 hours of HS 7000 (Directed Individualized Study).
- Change requirement that non-thesis students must take AIS 8703 to the option of taking AELC 8703 or AELC 8803.
- Change all HS course prefixes in the curriculum to HDFS. (The change of all HS course prefixes to HDFS has already approved by UCCC.)
- Change all AIS course prefixes in the curriculum to AELC. (The change of all AIS course prefixes to AELC has already been approved by UCCC.)
- Delete requirement that thesis track students take AIS 8503.

	Approved: Michael E. Neuma	Date: 12-15-17	
/	Department Head	1.26.18	
	Chair, College or School Curriculum Committee	1-29-18	
	Chair, University Committee on Courses and Curricu	la	
	Chair, Graduate Council (if applicable)		
	Chair, Deans Council		
	IHL Action Required	SACS Letter Sent	

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: M.S.		Degree: M.S.	
Major: Human Development & Family Stu	dies	Major: Human Development and Family Sc	ience
Concentrations: N/A		Concentrations: N/A	
Human Development and Family Studies (H	DFS)	Human Development and Family Science (HD	DFS)
Graduate Coordinator: Dr. Tommy Phillips	, i i i i i i i i i i i i i i i i i i i	Graduate Coordinator: Dr. Tommy Phillips	
201B Lloyd Ricks Watson Building		201B Lloyd Ricks Watson Building	
Box 9745		Box 9745	
Mississippi State, MS 39762		Mississippi State, MS 39762	
Telephone: 662-325-0655		Telephone: 662-325-0655	
E-mail: tom.phillips@msstate.edu		E-mail: tom.phillips@msstate.edu	
			Martanaf
The School of Human Sciences offers both t		The School of Human Sciences offers both the Science and the Doctor of Philosophy in Hum	
of Science and the Doctor of Philosophy in I		Development and Family Science (HDFS). S	all tudonts in
Development and Family Studies (HDFS).	Jontact the	Development and Family Science (HDFS). S	
Graduate Coordinator for more information	regarding	the M.S. program may select either the these theory and the set of	sis or non-
admission requirements and curriculum.		thesis option. Non-thesis students take a comprehensive oral exam in lieu of the thes	ic
		Doctoral students must complete a research	
Human Development and Family Studies is		dissertation. Contact the Graduate Coordinat	
interdisciplinary approach to the study of inc		information regarding admission requirements	
and family development in a variety of conte		curriculum.	sanu
the lifespan, from conception to later life. It			
encompasses specialty areas in infant and cl	hild		
studies, youth studies, family studies, family		Human Development and Family Studies is an	
		interdisciplinary approach to the study of indi	vidual and
studies, youth studies, family studies, family		interdisciplinary approach to the study of indi family development in a variety of contexts ac	vidual and
studies, youth studies, family studies, family		interdisciplinary approach to the study of indi	vidual and
studies, youth studies, family studies, family		interdisciplinary approach to the study of indi family development in a variety of contexts ac	vidual and
studies, youth studies, family studies, family management, and gerontology.	resource Required	interdisciplinary approach to the study of indi family development in a variety of contexts ac lifespan, from conception to later life.	vidual and cross the Required
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE	resource Required Hours	interdisciplinary approach to the study of indifamily development in a variety of contexts achieved by the study of the study of contexts achieved by the study of the study o	vidual and cross the Required Hours
studies, youth studies, family studies, family management, and gerontology.	resource Required	interdisciplinary approach to the study of indi family development in a variety of contexts ac lifespan, from conception to later life.	vidual and cross the Required
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses	resource Required Hours	 interdisciplinary approach to the study of indifamily development in a variety of contexts ad lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses 	vidual and cross the Required Hours
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE	resource Required Hours	interdisciplinary approach to the study of indifamily development in a variety of contexts achieved by the study of contexts achieved by the study of the study o	vidual and cross the Required Hours N/A
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses	resource Required Hours	 interdisciplinary approach to the study of indifamily development in a variety of contexts and lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS 	Required Hours N/A
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses:	Required Hours N/A	 interdisciplinary approach to the study of indifamily development in a variety of contexts and lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR 	vidual and cross the Required Hours N/A
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses: HDFS 8813 Seminar in HDFS	Required Hours N/A	 interdisciplinary approach to the study of indifamily development in a variety of contexts and lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS 	Required Hours N/A
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses: HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR	Required Hours N/A	 interdisciplinary approach to the study of indifamily development in a variety of contexts and lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR 	Required Hours N/A
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses: HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics	Required Hours N/A 3 3 4	 interdisciplinary approach to the study of indifamily development in a variety of contexts and lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR 	Required Hours N/A
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses: HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8503 Program Planning and Dev in	Required Hours N/A 3 3 4	 interdisciplinary approach to the study of indifamily development in a variety of contexts and lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics 	Required Hours N/A
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses: HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8503 Program Planning and Dev in AIS	Required Hours N/A 3 3 4 3	 interdisciplinary approach to the study of indifamily development in a variety of contexts at lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8803 Applying Research Methods to Agricultural and Extension Education 	Required Hours N/A
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses: HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8503 Program Planning and Dev in AIS AELC 8803 Research Methods (Thesis	Required Hours N/A 3 3 4 3	 interdisciplinary approach to the study of indifamily development in a variety of contexts and lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8803 Applying Research Methods 	Required Hours N/A
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses: HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8503 Program Planning and Dev in AIS AELC 8803 Research Methods (Thesis Option) <u>OR</u> AELC 8703 Eval of Ag and Ext Ed (Non-Thesis Option)	Required Hours N/A 3 3 4 3	 interdisciplinary approach to the study of indifamily development in a variety of contexts and lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8803 Applying Research Methods to Agricultural and Extension Education HDFS 8000 Research/Thesis 	Required Hours N/A 3 4 3 6
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses: HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8503 Program Planning and Dev in AIS AELC 8803 Research Methods (Thesis Option) <u>OR</u> AELC 8703 Eval of Ag and Ext Ed	Required Hours N/A 3 3 4 3	 interdisciplinary approach to the study of indifamily development in a variety of contexts at lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8803 Applying Research Methods to Agricultural and Extension Education 	vidual and cross the Required Hours N/A 3 3 4 3 3
studies, youth studies, family studies, family management, and gerontology. CURRENT CURRICULUM OUTLINE College Required Courses Major Required Courses: HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8503 Program Planning and Dev in AIS AELC 8803 Research Methods (Thesis Option) <u>OR</u> AELC 8703 Eval of Ag and Ext Ed (Non-Thesis Option)	Required Hours N/A 3 3 4 3 3	 interdisciplinary approach to the study of indifamily development in a variety of contexts and lifespan, from conception to later life. PROPOSED CURRICULUM OUTLINE College Required Courses Major Required Courses (Thesis Option): HDFS 8813 Seminar in HDFS HDFS 8823 Advanced Theories of HDFR EPY 6214 Ed and Psyc Statistics AELC 8803 Applying Research Methods to Agricultural and Extension Education HDFS 8000 Research/Thesis 	Required Hours N/A 3 4 3 6

Infant	& Child I	Torne			
HS	8113	Trends in Infant & Child			
115	0115	Development*			
HS	6883	Risk, Resilience and			
110	0000	Preventive Interventions			
COE	8913	Counseling Children			
EDE	9420	Research Practicum in ECE			
EPY	8293	Cognitive Development			
HS	6823	Development and Administration of Child Service Programs			
EDX	6423	Teaching the Disadvantaged Child			
PSY	6713	Language & Thought			
EDX	6353	Assistive Technology in			
		Special Education			
Youth	Focus	<i>x</i> · · · · · · · · · · · · · · · · · · ·			
HS	8313	Contemporary Youth Issues*			
HS	688 3	Risk, Resilience and Preventive Interventions			
HS	687 3	Positive Youth Development			
SO	6233	Juvenile Delinquency			
SO	6333	Sociology of Sports			
AIS	6403	Development of Youth Programs			
Family	Focus	0			
HS	8413	Issues in Family Studies*			
HS	8423	Development of Intimate Relationships			
COE	8303	Family Counseling Theory			
HS	6313	Family Resource Management			
HS	6333	Families, Legislation, & Public Policy			
HS	6403	Introduction to Gerontology			
HS	6803	Parenting			
HS	6813	Adult Development: The Middle Years			
HS	6843	Family Interaction			
HS	6853	The Family: An Ecological Perspective			
HS	6883	Risk, Resilience and Preventive Interventions			
SO	6203	The Family in the United States			
SO	6223	Comparative Family			

Family	Resourc	e Management Focus			
HS	6313	Family Resource			
		Management*			
HS	6333	Families, Legislation			
		& Public Policy			
HS	6863	Consumer Aspects of			
		Aging			
HS	6323	Consumer Issues and			
		Policy			
HS	6683	Current Housing			
		Problems of Families			
	tology Fo				
HS	6403	Intro to Gerontology*			
PSY	6983	Psychology of Aging			
HS	6863	Consumer Aspects of			
	1110	Aging			
SO	6413	Aging and Retirement in			
GOD	(American Society			
COE	6713	Issues in Aging			
COE	8813	Counseling Elderly			
80	(122	<i>Clients</i>			
SO	6433	Sociology of Death and			
		Dying			
*Dono	tes requi	red courses within focus			
areas.	ico i cyun	eu courses miningoeus			
ur cub.					
				Total Hours (Thesis option)	31
				Major Required Courses (Non-Thesis	
				Option):	
				Option).	
				HDFS 8813 Seminar in HDFS	3
				HDFS 8823 Advanced Theories of HDFR	3
				EPY 6214 Ed and Psyc Statistics	4
				AELC 8503 Program Planning and	3
				Development in Agricultural and	
				Extension Education	
				AELC 8803 Applying Research Methods	3
				to Agricultural and Extension Education	
				OR	
				AELC 8703 Evaluation of Agricultural	
				and Extension Education Programs	
1				15 hours of approved electives	15
			31	Total Hours (Non-Thesis Option)	31

3. JUSTIFICATION AND LEARNING OUTCOMES

Change 1: Delete focus areas and replace with 12 hours of approved electives for thesis track students and 15 hours of approved electives for non-thesis track students. Requiring students to declare specific focus areas and limiting them to specific courses approved for

Change 2:	their particular focus areas has presented frequent scheduling problems and necessitated equally-frequent course substitutions to ensure students meet their focus area requirements. Deleting focus areas and replacing them with electives approved by their major professors and committees will afford students greater scheduling flexibility, while decreasing scheduling conflicts and course substitutions. <i>For non-thesis track students, delete the requirement that they take 6 hours of HS 7000 (Directed Individualized Study).</i> The consensus among the members of the HDFS graduate faculty is that, in general, non-thesis students would benefit more from taking an additional two 3-hour courses related to their interests than taking 6 hours of directed individualized study. This change, however, would not prohibit non-thesis students from taking DIS hours in situations where they and their major professors feel that individualized study would be beneficial and appropriate.
Change 3:	Change requirement that non-thesis students must take AIS 8703 to the option of taking AELC 8703 or AELC 8803. Because AELC 8703 is taught just one time each year, it presents frequent scheduling problems for non-thesis students. Deleting the requirement that non-thesis students only take AELC 8703 and allowing them to take either AELC 8703 (Evaluation of Ag and Ext Ed) or AELC 8803 (Applied Research Methods to AEE) would provide students with increased scheduling flexibility while still meeting the program's expectation that all graduate students take a course that addresses research and evaluation.
Change 4:	<i>Change all HS course prefixes in the curriculum to HDFS.</i> The change of all HS course prefixes to HDFS has already approved by UCCC. The change now needs to be made in the official curriculum to reflect the changes to course prefixes.
Change 5:	Change all AIS course prefixes in the curriculum to AELC. The change of all AIS course prefixes to AELC has already approved by UCCC. The change now needs to be made in the official curriculum to reflect the changes to course prefixes.
Change 6:	Delete requirement that thesis track students take AIS 8503. AELC 8503 (Program Planning and Development in AELC) has a practitioner emphasis that, while appropriate for non-thesis HDFS master's students who are more likely to become practitioners, is less appropriate for HDFS master's students on the thesis track, as they are more likely to have academic/research interests and goals. Deleting the requirement that thesis students take AELC 8503 and allowing them to take an additional approved elective will provide them with more coursework in their areas of research interest.
Student learnin	g outcomes remain unchanged by this proposal and include the following:

- 1. Students will gain knowledge of major theories and research findings related to Human Development & Family Science.
- 2. Students will gain knowledge of research/evaluation design methodology and statistical applications.
- 3. Students will demonstrate effective oral and written communication skills.

4. SUPPORT

A letter of support from the School of Human Sciences Curriculum Committee is included with this proposal.

5. PROPOSED 4-LETTER ABBREVIATION

HDFS

6. EFFECTIVE DATE

Fall 2018



SCHOOL OF HUMAN SCIENCES

P. O. Box 9745 Mississippi State, MS 39762 P: 662.325.2950 humansci.msstate.edu

December 14, 2017

Ms. Jessica Graves Chair, CALS Curriculum Committee Box 9815 Mississippi State, MS 39762

Ms. Graves:

The School of Human Sciences Curriculum Committee has reviewed the proposal for modifications in the Master of Science in Human Development and Family Science, and we support its approval. The proposal brings the degree requirements into alignment with current course offerings and provides more flexibility for our students. We believe the proposed degree modification will benefit the master's students in our department.

Sincerely,

Joe D. Wilmoth, Chair

Julie Parker, Member

Alisha Hardman, Member

Brandan Wheeler, Member

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: Schoo	l of Human Sciences
Contact Person: Tommy M. Phillips	Mail Stop: 9745	E-mail: tom.phillips@msstate.edu
Nature of Change: Modification	Date Initiated: 08/	17 Effective Date: Fall 2018
Degree to be offered at: Starkville (Campus	1)	
Current Degree Program Name: Doctor of P	hilosophy	
Major: Human Development & Family Studi	es Concent	tration: N/A

New Degree Program Name: Doctor of Philosophy

Major: Human Development and Family Science Concentration: N/A

Summary of Proposed Changes:

- Delete focus areas and replace with 15 hours of approved electives.
- Delete requirement that students take AIS 8523, as this course will no longer be taught.
- Add requirement that students take 1 of 4 possible courses (HDFS 8123, AELC 8413, AELC 8503, AELC 8513) related to teaching and outreach.
- Replace requirement that all students take AIS 8703 with requirement that students take 2 of 4
 possible courses (AELC 8703, AELC 8803, EDF 9453, EDF 9643) related to research and evaluation.
- Replace requirements that all students take EPY 8214, an additional unspecified statistics course, and EPY 9213 or AIS 9583 with requirement that students take EPY 8214 and 1 of 3 additional courses (EPY 9213, AELC 9583, SO 8233) related to statistics and analysis.
- Change all HS course prefixes in the curriculum to HDFS. (The change of all HS course prefixes to HDFS has already been approved by UCCC.)
- Change all AIS course prefixes in the curriculum to AELC. (The change of all AIS course prefixes to AELC has already been approved by UCCC.)

Approved:	Date:
Michaelt. Meuman	12-15-17
Department Head	
Jesse Males	1.26.18
Chair, College or School Curriculum Committee	-
SILAIL 0 7. 6H	1-29-18
WS/ VC-1	

Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

GRADUATE DEGREE MODIFICATION OUTLINE FORM

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

CURRENT Degree Description		PROPOSED Degree Description		
Degree: Ph.D.		Degree: Ph.D.		
Major: Human Development & Family Stu	dies	Major: Human Development and Family Science		
Concentrations: N/A	areb	Concentrations: N/A		
Human Development and Family Studies (H	DFS)	Human Development and Family Science (HDFS)		
Graduate Coordinator: Dr. Tommy Phillips	DI 5)	Graduate Coordinator: Dr. Tommy Phillips		
201B Lloyd Ricks Watson Building				
		201B Lloyd Ricks Watson Building Box 9745		
Box 9745				
Mississippi State, MS 39762		Mississippi State, MS 39762		
Telephone: 662-325-0655		Telephone: 662-325-0655		
E-mail: tom.phillips@msstate.edu		E-mail: tom.phillips@msstate.edu		
The School of Human Sciences offers both t	he Master	The School of Human Sciences offers both the	e Master of	
of Science and the Doctor of Philosophy in H		Science and the Doctor of Philosophy in Hum		
Development and Family Studies (HDFS).		Development and Family Science (HDFS). S		
Graduate Coordinator for more information	regarding	the M.S. program may select either the the		
admission requirements and curriculum.	- <u>0</u> B	thesis option. Non-thesis students take a		
aumosion requirements and carrienalli.		comprehensive oral exam in lieu of the thes	is.	
Hanner Development and Femile, Otraliant	0.77	Doctoral students must complete a research		
Human Development and Family Studies is		dissertation. Contact the Graduate Coordinat		
interdisciplinary approach to the study of inc		information regarding admission requirements		
and family development in a variety of conte		curriculum.		
the lifespan, from conception to later life. It				
encompasses specialty areas in infant and cl		Human Development and Family Studies is an interdisciplinary approach to the study of individual and family development in a variety of contexts across the lifespan, from conception to later life.		
studies, youth studies, family studies, family	resource			
management, and gerontology.				
		mespan, from conception to later me.		
CURRENT CURRICULUM OUTLINE	Required	PROPOSED CURRICULUM OUTLINE	Required	
	Hours		Hours	
College Required Courses	N/A	College Required Courses	N/A	
Major Required Courses:				
J	1	Core Required Courses:		
		Core Required Courses:		
EPY 8214 Advanced Ed & Psy Statistics	4	HDFS 8833 Foundations of HDFS	3	
EPY 8214 Advanced Ed & Psy Statistics AIS 8703 Evaluation of Ag & Extension	4 3	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction	3	
	1	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction HDFS 8853 Current Issues in HDFS	3 3	
AIS 8703 Evaluation of Ag & Extension	1	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction	3	
AIS 8703 Evaluation of Ag & Extension Education	3	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction HDFS 8853 Current Issues in HDFS	3 3	
AIS 8703 Evaluation of Ag & Extension Education EPY 9213 Advanced Analysis <u>OR</u>	3	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction HDFS 8853 Current Issues in HDFS	3 3	
AIS 8703 Evaluation of Ag & Extension Education EPY 9213 Advanced Analysis <u>OR</u> AIS 9583 Analysis of Data in AEE	3	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction HDFS 8853 Current Issues in HDFS HDFS 9000 Research/Dissertation	3 3	
AIS 8703 Evaluation of Ag & Extension Education EPY 9213 Advanced Analysis <u>OR</u> AIS 9583 Analysis of Data in AEE Approved Statistics Course HS 8833 Foundations of HDFS	3 3 3	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction HDFS 8853 Current Issues in HDFS HDFS 9000 Research/Dissertation	3 3	
AIS 8703 Evaluation of Ag & Extension Education EPY 9213 Advanced Analysis <u>OR</u> AIS 9583 Analysis of Data in AEE Approved Statistics Course HS 8833 Foundations of HDFS AIS 8523 Teaching Out-of-School in AIS	3 3 3 3 3	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction HDFS 8853 Current Issues in HDFS HDFS 9000 Research/Dissertation Teaching and Outreach	3 3 20	
AIS 8703 Evaluation of Ag & Extension Education EPY 9213 Advanced Analysis <u>OR</u> AIS 9583 Analysis of Data in AEE Approved Statistics Course HS 8833 Foundations of HDFS AIS 8523 Teaching Out-of-School in AIS HS 6843 Family Interaction	3 3 3 3 3 3	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction HDFS 8853 Current Issues in HDFS HDFS 9000 Research/Dissertation Teaching and Outreach Select 1 of the following (3 hours):	3 3 20	
AIS 8703 Evaluation of Ag & Extension Education EPY 9213 Advanced Analysis <u>OR</u> AIS 9583 Analysis of Data in AEE Approved Statistics Course HS 8833 Foundations of HDFS AIS 8523 Teaching Out-of-School in AIS HS 6843 Family Interaction HS 8853 Current Issues in HDFS	3 3 3 3 3 3 3 3 3	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction HDFS 8853 Current Issues in HDFS HDFS 9000 Research/Dissertation Teaching and Outreach Select 1 of the following (3 hours): HDFS 8123 Effects of Poverty on	3 3 20	
AIS 8703 Evaluation of Ag & Extension Education EPY 9213 Advanced Analysis <u>OR</u> AIS 9583 Analysis of Data in AEE Approved Statistics Course HS 8833 Foundations of HDFS AIS 8523 Teaching Out-of-School in AIS HS 6843 Family Interaction	3 3 3 3 3 3 3 3	HDFS 8833 Foundations of HDFS HDFS 6843 Family Interaction HDFS 8853 Current Issues in HDFS HDFS 9000 Research/Dissertation Teaching and Outreach Select 1 of the following (3 hours):	3 3 20	

r			1	AELC 8513 Volunteer Development AEE	
		urses (Choose 15 hours	15	-	
from 1 area below)			Research and Evaluation		
	& Child I			Select 2 of the following (6 hours):	6
HS	8113	<i>Trends in Infant & Child Development*</i>		AELC 8703 Evaluation of Ag & Ext. Ed.	
HS	6883	Risk, Resilience and		AELC 8803 Research Methods	
		Preventive Interventions		EDF 9453 Intro Qual Research	
COE	8913	Counseling Children		Education	
EDE	9420	Research Practicum in ECE		EDF 9463 Qual Data Collection Ed.	
EPY	8293	Cognitive Development		Statistics and Analysis	4
HS	6823	Development and		EDV 0214 Advanced Ed & Day Statistics	
		Administration of Child		EPY 8214 Advanced Ed & Psy Statistics	
EDX	6423	Service Programs Teaching the		AND one (3 hours) of the following:	3
	0425	Disadvantaged Child		Althe one (5 nours) of the following.	
PSY	6713	Language & Thought		EPY 9213 Advanced Analysis	
EDX	6353	Assistive Technology in		AELC 9583 Analysis of Data in AEE	
		Special Education		SO 8233 Qualitative Analysis	
Youth	Focus	-			1.
HS	8313	Contemporary Youth		Approved Electives	15
		Issues*		With approval of major professor and	
HS	6883	Risk, Resilience and		graduate committee, select 5 courses (15	
UG	(073	Preventive Interventions		hours).	
HS	<i>6873</i>	Positive Youth Development			
SO	6233	Juvenile Delinquency			
SO	6333	Sociology of Sports			
AIS	6403	Development of Youth			
		Programs			
Family	Focus	0			
HS	8413	Issues in Family Studies*			
HS	<i>8423</i>	Development of Intimate Relationships			
COE	8303	Family Counseling Theory			
HS	6313	Family Resource			
		Management			
HS	6333	Families, Legislation, & Public Policy			
HS	6403	Introduction to			
	2.00	Gerontology			
HS	6803	Parenting			
HS	6813	Adult Development:			
		The Middle Years			
HS	6843	Family Interaction			
HS	6853	The Family: An			
	2003	Ecological Perspective			
HS	6883	Risk, Resilience and Preventive Interventions			
SO	6203	The Family in the United			
		States			
SO	6223	Comparative Family			

		Systems			
Family	Resourc	e Management Focus			
HS	6313	Family Resource			
HS	6333	Management*			
пs	0333	Families, Legislation & Public Policy			
HS	6863	Consumer Aspects of			
		Aging			
HS	6323	Consumer Issues and			
HS	6683	Policy Current Housing			
по	0005	Current Housing Problems of Families			
Geroni	tology Fo				
HS	6403	Intro to Gerontology*			
PSY	6983	Psychology of Aging			
HS	6863	Consumer Aspects of			
80	(112	Aging			
SO	6413	Aging and Retirement in American Society			
COE	6713	Issues in Aging			
COE	8813	Counseling Elderly			
		Clients			
SO	6433	Sociology of Death and			
		Dying			
*Deno	tes reaui	red courses within focus			
areas.				1	
Total I	Hours		60	Total Hours	

3. JUSTIFICATION AND LEARNING OUTCOMES

- Change 1: Delete focus areas and replace with 15 hours of approved electives. Requiring students to declare specific focus areas and limiting them to specific courses approved for their particular focus areas has presented frequent scheduling problems and necessitated equally-frequent course substitutions to ensure students meet their focus area requirements. Deleting focus areas and replacing them with electives approved by their major professors and committees will afford students greater scheduling flexibility, while decreasing scheduling conflicts and course substitutions.
- Change 2: Delete requirement that students take AIS 8523. This course is no longer be offered by the School of Human Sciences.
- Change 3: Add requirement that students take 1 of 4 possible courses (HDFS 8123, AELC 8413, AELC 8503, AELC 8513) related to teaching and outreach. HDFS doctoral students are expected to demonstrate proficiency in the application and dissemination of knowledge to a variety of audiences. In addition to teaching classes, one of the ways they did this in the past was through successful completion of AIS 8523, a course that is no longer offered. This proposed change will afford doctoral students flexibility in selecting from several possible courses that emphasize teaching and outreach.
- Change 4: Replace requirement that all students take AIS 8703 with requirement that students take 2 of 4 possible courses (AELC 8703, AELC 8803, EDF 9453, EDF 9643) related to research and evaluation. This requested change will increase students' competencies in

the areas of research and evaluation while providing them with greater flexibility and more course options in these areas.

- Change 5: Replace requirements that all students take EPY 8214, an additional unspecified statistics course, and EPY 9213 or AIS 9583 with requirement that students take EPY 8214 and 1 of 2 additional courses (EPY 9213 or AELC 9583) related to statistics and analysis. This requested change makes the statistics and analysis requirement more prescriptive and will eliminate problems associated with having an unspecified statistics course in the curriculum. The deletion of one statistics course in the curriculum is countered by the addition of a course related to research and evaluation.
- Change 6: Change all HS course prefixes in the curriculum to HDFS. The change of all HS course prefixes to HDFS has already approved by UCCC. The change now needs to be made in the official curriculum to reflect the changes to course prefixes.
- Change 7: Change all AIS course prefixes in the curriculum to AELC. The change of all AIS course prefixes to AELC has already approved by UCCC. The change now needs to be made in the official curriculum to reflect the changes to course prefixes.

Student learning outcomes remain unchanged by this proposal and include the following:

- 1. Students will demonstrate broad, advanced content knowledge related to Human Development & Family Studies.
- 2. Students will demonstrate proficiency in research design methodology and statistical applications.
- 3. Students will demonstrate effective oral and written communication skills.
- 4. Students will demonstrate proficiency in the application and dissemination of knowledge to a variety of audiences.
- 4. SUPPORT

A letter of support from the School of Human Sciences Curriculum Committee is included with this proposal.

5. PROPOSED 4-LETTER ABBREVIATION

HDFS

6. EFFECTIVE DATE

Fall 2018



SCHOOL OF HUMAN SCIENCES

P. O. Box 9745 Mississippi State, MS 39762 P: 662.325.2950 humansci.msstate.edu

December 14, 2017

Ms. Jessica Graves Chair, CALS Curriculum Committee Box 9815 Mississippi State, MS 39762

Ms. Graves:

The School of Human Sciences Curriculum Committee has reviewed the proposal for modifications in the Doctor of Philosophy in Human Development and Family Science, and we support its approval. The proposal brings the degree requirements into alignment with current course offerings and provides more flexibility for our students. We believe the proposed degree modification will benefit the Ph.D. students in our department.

Sincerely,

16 D. Wilmoth, Chair

Julie/Parker, Member

Alisha M. Hardina

Alisha Hardman, Member

Brandan Wheeler, 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 to UCCC Mail Stop 9702 (281 Garner Hall), Phone: 325-9410.

College: Engineering	Department: Electrical & Computer Engineering
Contact Person: JW BRUCE Nature of Change: add minor	Mail Stop:9571E-mail:jwbruce@ece.msstate.eduDate Initiated:11/14/2027Effective Date:Fall 2018
Current Degree Program Name:	N/A
Major:	Concentration:
New Degree Program Name:	N/A
Major:	Concentration:

Summary of Proposed Changes:

We propose to add an Electrical Engineering (EE) minor to be administered in the Department of Electrical & Computer Engineering. Upon approval by the UCCC, the EE minor will become an additional offering in the Department of Electrical & Computer Engineering in the Bagley College of Engineering. It will enable students enrolled in other disciplines at MSU to enhance their education by learning and applying fundamental concepts of electrical engineering. The proposed minor requires at least 16 hours to be composed of three required courses and two elective courses. All courses for the EE minor are currently taught by faculty in the Department of Electrical & Computer Engineering.

Approved:

Date:

12

Nucl Oma **Department Head**

-

1/30/18

Chair, College or School Curriculum Committee

Dean of College or School

2

Chair, University Committee on Courses and Curricula

Chair, Graduate Council(if applicable)

Chair, Deans Council

PROPOSAL

Electrical Engineering Minor

Department of Electrical & Computer Engineering

Mississippi State University

November 2017

1. CATALOG DESCRIPTION

A minor in Electrical Engineering (EE) will prepare students for additional study or employment in electrical engineering fields. Students will become familiar with basic theory and techniques necessary for analyzing electrical and electronics systems and informing their design decisions involving electrical and electronics systems. Academic advising toward the EE minor is available from the ECE Undergraduate Program Coordinator located in 216 Simrall.

Students majoring in electrical engineering and computer engineering are not eligible.

A minimum of 16 hours must be taken to obtain the EE minor. All courses used to earn the EE minor must be taken at MSU. A grade of "C" or better must be earned in all courses for the EE minor. A minimum grade point average of 2.0/4.0 is required in all courses taken as a part of the EE minor.

For all eligible MSU majors, the EE minor consists of three required courses and two restricted elective courses. Note that some course choices may require other courses as prerequisites.

REQUIRED COURSES (10h)	credit hours
ECE 3413 Introduction to Electronic Circuits	3
ECE 3424 Intermediate Electronics Circuits	4
ECE 3443 Signals & Systems	3
RESTRICTED ELECTIVE COURSES (6-8h)	credit hours
RESTRICTED ELECTIVE COURSES (6-8h) Choose two of the following:	credit hours
	credit hours
Choose two of the following:	2

ECE 3434 Advanced Electronics Circuits	4
ECE 3614 Fundamentals of Energy Systems	4
ECE 4263 Principles of VLSI Design	3
ECE 4293 Nano-electronics	3
ECE 4313 Antennas	3
ECE 4323 Electromagnetic Compatibility	3
ECE 4333 RF & Microwave Engineering	3
ECE 4413 Digital Signal Processing	3
ECE 4433 Intro to Radar	3
ECE 4613 Power Transmission Systems	3
ECE 4633 Power Distribution Systems	3
ECE 4653 Intro to Power Electronics	3
ECE 4673 Fundamentals of HV Engineering	3
ECE 4813 Communications Theory	3
ECE 4913 Feedback Control Systems I	3
ECE 4923 Feedback Control Systems II	3
ECE 4933 State Space Design	3

2. CURRICULUM OUTLINE

PROPOSED New Degree

Degree: Minor **Major:** Electrical Engineering (EE) **Concentration:**

A minor in Electrical Engineering (EE) will prepare students for additional study or employment in electrical engineering fields. Students will become familiar with basic theory and techniques necessary for analyzing electrical and electronics systems and informing their design decisions involving electrical and electronics systems. Academic advising toward the EE minor is available from the ECE Undergraduate Program Coordinator located in 216 Simrall.

Students majoring in electrical engineering and computer engineering are not eligible.

A minimum of 16 hours must be taken to obtain the EE minor. All courses used to earn the EE minor must be taken at MSU. A grade of "C" or better must be earned in all courses for the EE minor. A minimum grade point average of 2.0/4.0 is required in all courses taken as a part of the EE minor.

For all eligible MSU majors, the EE minor consists of three required courses and two restricted elective courses. Note that some course choices may require other courses as prerequisites.

[Click here and type new concentration description]

[Click here and type new concentration description]	
Proposed Curriculum Outline	Required Hours
Students will complete the following three required	10
courses:	
ECE 3413 Intro to Electronic Circuits	
ECE 3424 Intermediate Electronic Circuits	
 ECE 3443 Signals & Systems 	
Students will select two of the following courses: • ECE 3213 Solid-State Electronics	6
ECE 3313 Electromagnetics I	
ECE 3323 Electromagnetics II	
ECE 3434 Advanced Electronics Circuits	
 ECE 3614 Fundamentals of Energy Systems 	
 ECE 4263 Principles of VLSI Design 	0
ECE 4293 Nano-electronics	
ECE 4313 Antennas	

ECE 4323 Electromagnetic Compatibility	
 ECE 4333 RF & Microwave Engineering 	
 ECE 4413 Digital Signal Processing 	
ECE 4433 Intro to Radar	
 ECE 4613 Power Transmission Systems 	
 ECE 4633 Power Distribution Systems 	
ECE 4653 Intro to Power Electronics	
 ECE 4673 Fundamentals of HV Engineering 	
ECE 4813 Communications Theory	
 ECE 4913 Feedback Control Systems I 	
 ECE 4923 Feedback Control Systems II 	
 ECE 4933 State Space Design 	
Total Hours (minimum)	16

The courses listed above that satisfy the requirements of the EE minor are already being taught in support of the degrees in electrical engineering, computer engineering, and other programs in the Bagley College of Engineering. As a result of the new minor in electrical engineering, the Department of Electrical & Computer Engineering will add no new courses, and no additional faculty will be needed.

3. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Students completing the minor in electrical engineering will be able to

- apply the concepts of electricity, circuit analysis, basic electronics, and signal theory to analyze the response of systems
- evaluate competing electrical, electronic, and signal processing solutions to determine the most desirable approach
- understand and articulate the issues surrounding electrical, electronic, and signal components within the larger engineered design

4. SUPPORT

A letter of support from the Department of Electrical & Computer Engineering Undergraduate Committee is included with this proposal.

A letter of support from the academic heads of the departments within the Bagley College of Engineering is included with this proposal.

5. EFFECTIVE DATE

Fall 2018



13 November 2017

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

FROM: Undergraduate Committee, Department of Electrical & Computer Engineering

RE: Minor in Electrical Engineering

The Undergraduate Committee of the Department of Electrical & Computer Engineering has reviewed the application for the proposed minor in electrical engineering. After doing so, the Undergraduate Committee recommended and the ECE faculty unanimously approved the offering of the EE minor at a an ECE faculty meeting held on 10 November 2017.

We offer the full support of the proposed electrical engineering minor.

Vino 100

Nicolas Younan, ECE Department Head

J. Patrick Donohoe

Masoud Karimi

Jean Mohammadi-Aragh

J.W. Bruce, Undergraduate Committee Chair

Randy Follett

Mehme

Lokesh Shivakumaraiah



13 November 2017

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

FROM: Academic Department Heads, James W. Bagley College of Engineering

RE: Minor in Electrical Engineering

We have the reviewed the proposal for a minor in Electrical Engineering that will be made available to all students except those in the electrical engineering and computer engineering disciplines upon University approval. Our support for the proposed Electrical Engineering minor is given below.

Support Do not support proposal proposal Davy Belk, Ph.D. Aerospace Engineering Jopathan Pote, Ph.D., Agricultural & Biological Engineering Bill Elmore, Ph.D., Chemical Engineering Mart Dennis Truax, Ph.D., P.E., Civil & Environmental Engineering Ed Swan, Ph.D., Computer Science & Engineering John Usher, Ph.D., P.E., Industrial & Systems Engineering Pedro Mago, Ph.D., Mechanical Engineering

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

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

College: Bagiey College of Engineering Department: School of Chemical Engineering

Contact Person: Bill B. Elmore Mail Stop: 9595 E-mail: elmore@che.msstate.edu

Nature of Change: Program Modification Date Initiated: 11/17/17 Effective Date: 8/15/18

Current Degree Program Name: Petroleum Engineering

Major: Petroleum Engineering Concentration: NA

New Degree Program Name: NA

Major: Petroleum Engineering Concentration: NA

Summary of Proposed Changes (for side-by-side comparison of current and proposed program see the attached *Degree Modification Outline* form):

- 1) Removal of the following courses from the PTE curriculum:
 - CHE 1101 Introduction to Chemical Engineering
 - GG 1113 Survey of Earth Sciences
 - PH 2223 Physics II
 - CHE 4313 Transport Phenomena

2) Addition of the following courses to the PTE curriculum:

- a. PTE 1001 Introduction to Petroleum Engineering (Course Proposal Submitted to UCCC and attached)
- b. CHE 3213 Heat Transfer Operations
- c. CHE 3203 Fluid Unit Operations
- d. PTE 4483 Capstone Design (Course Proposal Submitted to UCCC and attached)

Approved:

Date:

0

25/18 1

Department Head

Chair, College or School Curriculum Committee

waso 0 Dean of College or School

30/18

2/1/18

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (If applicable)

Chair, Deans Council

DEGREE MODIFICATION OUTLINE FORM

1. Catalog Description

Use the chart below to make modifications to an existing undergraduate degree outline. If any General Education (Core) course is acceptable in the category, please indicate by saying "any Gen Ed course". There is no need to type in the whole list. All deleted courses and information should be shown in *italics* and all new courses and information in **bold**. Include the course prefix, number, and title in both columns. Expand this table as needed.

CURRENT Degree Description	PROPOSED Degree Description
Degree: Petroleum Engineering	Degree: Petroleum Engineering
Major: Petroleum Engineering	Major: Petroleum Engineering
Concentration:	Concentration:
Concentration: This curriculum is designed to educate students on the foundational principles required for success in the petroleum industry. Graduates will be prepared to enter the workforce and manage the human and energy resources in the petroleum industry. Students will develop hands-on, communication, and critical thinking skills to be successful. The program offers unique training with a particular emphasis on petroleum reservoir engineering, enhanced petroleum recovery methods, and thorough economic analysis. The degree is housed within the Swalm School of Chemical Engineering and offers a student-focused curriculum with one-on-one advising and professional development opportunities. The petroleum industry is one of the world's largest industries and is relied upon for our current way of life in several ways. First, petroleum fuels can be burned for energy which is used to supply heat and generate electricity for stationary applications. Secondly, petroleum has a favorable energy density and can be pursued for transportation applications. Finally, petroleum products are used to produce many chemical products of industrial and household relevance. The world consumes over 30 billion barrels of oil per year. It is estimated that 25% of the oil produced annually is used in the United States of America. The state of Mississippi ranks 13 th in annual petroleum production in the United States. Major refineries in the state are located in Pascagoula, Vicksburg and Sandersville. The state is estimated to produce 3.1% of U.S. motor gasoline and 1.7% of U.S. distillate fuel, which are significant amounts given the total volume of consumption.	Concentration: This curriculum is designed to educate students on the foundational principles required for success in the petroleum industry. Graduates will be prepared to enter the workforce and manage the human and energy resources in the petroleum industry. Students will develop hands-on, communication, and critical thinking skills to be successful. The program offers unique training with a particular emphasis on petroleum reservoir engineering, enhanced petroleum recovery methods, and thorough economic analysis. The degree is housed within the Swalm School of Chemical Engineering and offers a student-focused curriculum with one-on-one advising and professional development opportunities. The petroleum industry is one of the world's largest industries and is relied upon in numerous ways for sustaining a modern and ever-advancing energy-driven, technologically-based society.

2. Catalog Description

CURRENT CURRICULUM OUTLINE	Req Hrs	PROPOSED CURRICULUM OUTLINE	Req Hrs
English (Ex: EN 1103 English Comp I): EN 1103 English Composition I EN 1113 English Composition II	6	English (Ex: EN 1103 English Comp I): EN 1103 English Composition I EN 1113 English Composition II	6
Fine Arts (See General Education list):	3	Fine Arts (See General Education List):	3
Natural Sciences (2 labs required from Gen Ed): See Major Core			
Extra Science (if appropriate) See Major Core		Extra Science (if appropriate) See Major Core	
Math (General Education): See Major Core		Math (General Education): See Major Core	
Humanities (See General Education List):	6	Humanities (See General Education List):	6
Social/Behavioral Sciences (See General Education List):	6	Social/Behavioral Sciences (See General Education List):	6
Major Core Math and Basic Sciences MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2733 Calculus IV MA 3253 Differential Equations CH 1213 Chemistry I CH 1211 Investigations in Chemistry I CH 1223 Chemistry II CH 1221 Investigations in Chemistry II GG 1113 Survey of Earth Sciences PH 2213 Physics I PH 2223 Physics II	3 3 3 3 3 3 3 1 3 1 3 3 3	Major Core Courses MA 1713 Calculus I MA 1723 Calculus II MA 2733 Calculus III MA 2743 Calculus IV MA 3253 Differential Equations CH 1213 Chemistry I CH 1211 Investigations in Chemistry I CH 1223 Chemistry II CH 1221 Investigations in Chemistry II PH 2213 Physics I	3 3 3 3 3 3 3 1 3 1 3
Geology Elective (Choose one) Technical Elective: GG 4063 Development of Fossil Fuel Resources GG 4153 Engineering Geology GG 4304 Prin. of Sedimentary Deposits I GG 4413 Structural Geology GG 4443 Prin. of Sedimentary Deposits II	6	Geology & Geography Electives (Choose two—at least one must be a Geology Elective): GG 4063 Development of Fossil Fuel Resources (proposal before UCCC to rename this course "Earth Energy Resources") GG 4233 Applied Geophysics GG 4304 Prin. of Sedimentary Deposits I GG 4413 Structural Geology GG 4433 Subsurface methods GG 4633 Introduction to Geochemistry GR 4303 Principles of GIS GR 4313 Advanced GIS GR 4323 Cartographic Sciences	6

i	CURRENT Degree Description		PROPOSED Degree Description	
18	Major Core—Engineering Topics		Major Core—Engineering Topics	
Dž	CHE 1101 Intro. to Chem. & Pet. Engineering CHE 2114 Mass & Energy Balances	1	PTE 1101 Introduction to Petroleum Engineering	1
		3	Engineering	4
	CHE 2213 Analysis CHE 3113 Chem. Engr. Thermodynamics I	3	CHE 2114 Mass & Energy Balances	3
	CHE 3413 Engineering Materials	3	CHE 2213 Analysis	3
	CHE 3413 Engineering Materials CHE 4313 Transport Phenomena	3	CHE 3113 Chem. Engr. Thermodynamics I	3
	CHE 4313 Transport Phenomena	2	CHE 3203 Fluids Unit Operations	3
	EM 2413 Engineering Mechanics I	3	CHE 3203 Fluids Chil Operations	۲°
	EM 3123 Mechanics of Materials	3	CHE 3413 Engineering Materials	
	EWI 5125 Wechanics of Waterials	3	CIL 3413 Engineering Materials	3
÷	IE 3913 Engineering Economy I	3	EM 2413 Engineering Mechanics I	3
	IE 4613 Engineering Statistics I	3	EM 3123 Mechanics of Materials	1 1
	15 4015 Engineering Statistics 1	3		3
	PTE 3902 Petroleum Engineering Lab I	2	IE 3913 Engineering Economy I	3
ĝ.	PTE 3902 Petroleum Reservoir Fluid	3	IE 4613 Engineering Statistics I	1 I
	Properties	2	12 4015 Engineering Statistics I	2
. č.	PTE 3912 Petroleum Engineering Lab II	3	PTE 3902 Petroleum Engineering Lab I	3
	PTE 3953 Pet. Res. Rock Prop. & Fluid Flow	3	PTE 3903 Petroleum Reservoir Fluid Properties	2
	PTE 3963 Drilling	3	PTE 3912 Petroleum Engineering Lab II	3
-	PTE 3973 Petroleum Production Operations	3	PTE 3953 Pet. Res. Rock Properties & Fluid Flow	3
	PTE 4903 Petroleum Reservoir Engineering l	3	PTE 3963 Drilling	3
E.	PTE 4913 Petroleum Reservoir Engineering I	3	PTE 3973 Petroleum Production Operations	3
	PTE 4923 Completion Design	3	PTE 4903 Petroleum Reservoir Engineering I	3
	PTE 4953 Formation Evaluation	3	PTE 4913 Petroleum Reservoir Engineering II	3
	PTE 4963 Oil Recovery Methods	3	PTE 4923 Completion Design	3
	PTE 4993 Petroleum Economic Analysis	-	PTE 4953 Formation Evaluation	3
			PTE 4963 Oil Recovery Methods	3
			PTE 4993 Petroleum Economic Analysis	3
			PTE 4983 Capstone Design in Pet. Engr.	
	Writing Requirement	3	Writing Requirement	3
	GE 3513 Technical Writing		GE 3513 Technical Writing	
	Oral Communication Requirement—Fulfilled in		Oral Communication Requirement—Fulfilled in	
	PTE 3902, PTE 3912 and PTE 4993		PTE 3902, PTE 3912 and PTE 4993	
Q.	Total Hours	128	Total Hours	128

(10)

3. Justification and Student Learning Outcomes

The Petroleum Engineering (PTE) Bachelor's Degree program is being modified in response to an extensive review by the Petroleum Engineering faculty and by representatives from the oil and gas industry. The Petroleum Engineering B.S. degree was approved by IHL for initiation in the fall 2015 semester. Our PTE faculty (each of whom has been hired in the past two years) have evaluated the curriculum with regard to the necessary preparation needed for core petroleum engineering courses.

As indicated in the UCCC Proposal Guide, the proposed changes are being made to better prepare students to compete for internships and entry-level positions in the oil and gas industry and are based upon *extensive feedback from program constituents including industry representatives and External Advisory Board members, petroleum engineering faculty and students.* The proposed changes also bring the PTE curriculum more in line with similar curricula offered at peer and peer-plus institutions.

Justifications and Student Learning Outcomes are outlined below for each proposed change.

1) Course Deletions and Additions.

a. CHE 1101 Introduction to Chemical Engineering is being replaced by PTE 1101 Introduction to Petroleum Engineering (Course Proposal Attached). After consultation with program constituents (i.e. faculty, industrial representatives, students and Advisory Board members) it was determined that, given this early state of the PTE program it is very important to establish an introductory course directed specifically at petroleum engineering students to build student familiarity with PTE topics and strengthen interactions among PTE freshmen.

Student learning outcomes will be an increased familiarity with the Petroleum Engineering industry, exposure to specific PTE topics and issues for the industry, and growth in soft skills of teamwork and leadership.

- b. GG 1113 Survey of Earth Science (an introductory course) is being replaced by a new course (proposal attached) PTE 4983 Capstone Design. ABET accreditation criteria specifically states that all engineering curriculum should culminate in a "capstone" design experience bringing into focus the spectrum of topics covered throughout the undergraduate curriculum. The Capstone Design course will enable students to put fundamental petroleum engineering principles into practice by focusing on a major project, the complexity of which commensurate with industry practice.
- c. PH 2223 Physics II is being replaced by CHE 3203 Fluid Flow Operations. The topics of fluid mechanics and flow behavior in piping/pumping systems are deemed by the PTE faculty to be critically important as prerequisite material for more advanced petroleum engineering topics. Learn outcomes include student ability to understand fluid mechanics principles and design fluids handling systems.

- d. CHE 4313 Transport Phenomena is being replaced by CHE 3213 Heat Transfer Operations. Exposure to topics of heat transfer and associated processing equipment provide PTE students fundamental preparation for dealing with heat transport phenomena in the many processes of oil and gas processing (e.g. drilling and production). Further justification is required in that course prerequisites for CHE 4313 Transport Phenomena are CHE 3203 Fluid Flow Operations and CHE 3213 Heat Transfer. Retaining CHE 4313 Transport Phenomena as a degree requirement is unsustainable in light of these two course prerequisites which would exceed the allowable 128 SCH for the degree.
- 1. Will this program change meet local, state, regional and national educational and cultural needs?

As noted earlier, these changes are made in direct response to feedback from industry representatives and alumni who are active in national and international oil and gas companies to ensure that our graduates are competitive.

2. Will this program change result in duplication in the System?

Ĭ.

1

The Petroleum Engineering program at Mississippi State University is unique to the State of Mississippi and offers a unique degree program to a number of surrounding states through the Academic Common Market.

3. Will this program change/advance student diversity within the discipline?

The Petroleum Engineering program has drawn students from underrepresented minorities from within Mississippi and from out of state thereby increasing the diversity in the field of petroleum engineering and within the university. The proposed changes to the curriculum strengthen the engineering fundamentals and training of our graduates.

4. Will this program change result in an increase in the potential placement of graduates in Mississippi, the Southeast and in the U.S.

Without question, the concentration of oil and gas companies in Mississippi and in this region of the U.S. will be significantly enhanced by Mississippi State Petroleum Engineering graduates entering the field. Given the historic recognition of Mississippi State engineering graduates across all degree programs, the Petroleum Engineering bachelor's degree program promises to join the ranks of other Bagley College of Engineering degree programs in providing quality graduates to industry, government and advance degree programs. As noted earlier, the proposed changes will enhance the marketability and placement of MSU Petroleum Engineering graduates. 5. Will the program change result in an increase in the potential salaries of graduates in Mississippi, the Southeast and in the U.S.?

Petroleum Engineering graduate salaries are among the highest of any bachelor's degree starting salary in the United States. The proposed curriculum changes further enhance the marketability of our graduates and offers the potential for PTE graduates to lead the Bagley College of Engineering in per capita salary offers for entry-level BCOE and MSU graduates.

4. Letters of Support

1

ı.

ţ

Letters of support from the Swalm School of Chemical Engineering faculty and the Geosciences faculty are attached.

5. Proposed 4-letter abbreviation

The Petroleum Engineering program is designated by the letters PTE

6. Effective Date

The proposed effective date is Fall 2018.



Dave C. Swalm School of Chemical Engineering Box 9595 • Mississippi State, MS 39762 Phone (662) 325-2480 • FAX (662) 325-2482

Date:	November 20, 2017
То:	University Committee on Courses and Curricula
Through:	Bagley College of Engineering Committee on Courses and Curricula
From:	Faculty, Dave C. Swalm School of Chemical Engineering
RE:	Proposed changes to the petroleum engineering degree program

We, the undersigned faculty, support the proposed changes to the petroleum engineering degree program as summarized below (with details in attached documents).

- 1) Removal of CHE 1101 Introduction to Chemical Engineering to be replaced by a new course PTE 1101 Introduction to Petroleum Engineering (Course Proposal Attached)
- 2) Removal of GG 1113 Survey of Earth Sciences (3 SCH to be replaced by addition of a capstone design course—PTE 4983 (Proposed Course Number)—Course Proposal attached).
- 3) Removal of PH 2223 Physics II to be replaced by CHE 3203 Unit Operations Fluids
- 4) Removal of CHE 4313 Transport Phenomena to be replaced by CHE 3213 Unit Operations Heat Transfer
- 5) Geology and Technical Electives to be selected from a specific list (attached).

Amin Amirlatin Todd French an tanu 1AhC Santanu Kundu Dong Meng Yizhi Xiang

Pricilla Hill

ryam Maribolghasemi

eer Neeraj Rai

e. Director Bill B. Elmoi

David Cole

Chad Kronkosky

Larry Pearson

Hossein Toghiani



MISSISSIPPI STATE

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

January 22, 2018

The Department of Geosciences Curriculum Committee recently met to discuss the proposed changes to the PTE major and their impacts on the Department of Geosciences. After discussion, the committee voted unanimously to support the proposal, though we would like to offer suggestions regarding the proposed changes.

The Department of Geosciences feels it is important for students to retain a solid grasp geophysical processes related to oil formation and the rock types that contain oil, and we propose that some additional courses be added to the list of electives that students may choose from. In particular:

- GG 4443 Principles of Sediment Deposits II this course is recommended as it gives students an understanding of large-scale reservoir morphology
- GG 4633 Introduction to Geochemistry -- this is recommended as Geophysics will only be offered every other Fall, with this course being offered in its stead

We would also recommend that you modify the course name of GG 4063 Development of Fossil Fuels to its new name (currently in review at UCCC level) Earth Energy Resources. Finally, we noted that there are prerequisites for many of our listed courses, but these are not fatal and feel that they may be waived at the consent of the instructor, with the exception of the GG 4303 prerequisite for GG 4443 which will be enforced.

We look forward to the continued positive impact that this program will have to our department and Mississippi State University.

Respectfully

Andrew Mercer (Committee Chair)

Rinat Gabitov (Committee Member)

Kathleen Sherman-Morris (Committee Member)

Shrinidhi Ambinakudige (Committee Member)

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