Summary and Proposals September 27, 2022 Curriculum Committee/October 11, 2022 Faculty Senate

- College of Arts and Humanities Department of History and Political Science
 - a. Modify the Minor Pre-Law
 - (1) Add the following courses:

PHIL 2053: Introduction to Critical Thinking; and

POLS 4033: Principles of Legal Study;

(2) Delete the following courses:

PHIL 3023: Ethics; and

ENGL 2053: Technical Writing; and

- (3) Add ENGL 2053: Technical Writing, or ENGL 2043: Introduction to Creative Writing.
- 2. College of Education and Health Department of Kinesiology and Rehabilitation Science
 - a. Change the degree for the Bachelor of Arts in Rehabilitation Science to a Bachelor of Science. Remove the name change proposal from the agenda since this type of change goes directly to ADHE for approval.
- 3. College of Science, Technology, Engineering, and Mathematics Department of Engineering and Computing Sciences
 - a. Delete ELEG/MATH 3173: Math Methods for Engineers, from the course descriptions.
- 4. College of Science, Technology, Engineering, & Mathematics Department of Mathematics and Statistics
 - a. Delete MATH/ELEG 3173: Math Methods for Engineers, from the course descriptions.
- 5. College of Science, Technology, Engineering, and Mathematics Department of Physical Science
 - a. Modify the Minor in Engineering Physics, as follows:
 - (1) Change the name to Minor in Physics;
 - (2) Delete 11 hours of Physics Electives;
 - (3) Require the following courses:

PHYS 2114: Calculus-Based Physics I,

PHYS 2124: Calculus-Based Physics II, and

PHYS 3213: Modern Physics;

- (4) DELETE ITEM 4: Add 6 hours of UD Physics Electives;
- (5) DELETE ITEM 5: Add 3 hours of UD PHYS and MATH Electives; REPLACE WITH: Change PHYS Electives (9 hours of 3000-4000 level) to 6 hours of UD PHYS Electives and 3 hours of UD PHYS or MATH Electives; and
- (6) Update the program description.

REQUEST FOR PROGRAM CHANGE

Department Initiating Proposal	Date
History and Political Science	
	5/20/2022

Title	Signature	Date
Department Head	11/1/1	31 Ma, 2022
Dean (Jeffey Can	31/May/2
Assessment	Chi lut	8/9/2022
Registrar	Jammy Walle	81912072
Graduate Dean (Graduate Proposals Only)		To the de
Vice President for Academic Affairs		

Approval Date
The state of the s

Program Title:	***************************************
Pre-Law Minor	

Outline change in program: (e.g., list changes in program such as (1) delete three hours of elective and (2) add three hours of approved major electives)

Add PHIL 2053 Introduction To Critical Thinking as an elective to the pre-law minor
Add POLS 4033 Principles of Legal Study as an elective to the pre-law minor
Delete PHIL 3023 Ethics as an elective to the pre-law minor
Delete ENGL 2053 Technical Writing as a requirement to the pre-law minor
Add ENGL 2053 Technical Writing or ENGL 2043 Creative Writing as a requirement to the

Add ENGL 2053 Technical Writing or ENGL 2043 Creative Writing as a requirement to the pre-law minor

What impact will the change have on staffing, on other programs and space allocation?

No Impact

Answer the following Assessment questions:

- a. How does the program change align with the university mission?
- b. If this change in the program is mandated by an accrediting or certifying agency, include the directive. If not, state not applicable.
- c. What is the rationale for this program change?
 - 1. How will the program change impact learning for students enrolled in this program?
 - 2. Provide an example or examples of student learning assessment evidence which supports the changes in the program.
- b. How does this program fit in the current state of the discipline? Include Arkansas institutional comparisons. If Arkansas educational institutions do not have the course or program provide comparative examples from regional educational institutions.
- c. Attach a detailed assessment plan including three to five specific program student learning outcomes, means or instructional measures to assess each outcome, identify program courses where learning will be assessed, and performance standards or criteria for success which demonstrate student learning for each outcome. (Examples for assessment plans/curriculum mapping can be found at the Office of Assessment and Institutional Effectiveness web page.)

If this course will affect other departments, a Departmental Support Form for each affected department must be attached. The form is located on the Curriculum forms web page at http://www.atu.edu/registrar/curriculum forms.php.

Arkansas Tech University DEPARTMENTAL SUPPORT FORM

This form must be completed for every department affected by the course change.

Department Affected:	This department	
English & World Languages	X supports	oes not support
	the change.	
Comments:		
EWL supports the revision of the Pre-Law minor so the ENGL 2043 Introduction to Creative Writing and ENG		
Department H	ead Signature:	Hoffman

Date: 05-31-22

Pre-Law

The pre-law minor program's objective is to prepare students for entrance to and advanced study at law school or alternative careers in the legal profession (e.g. legal aide, court reporter, paralegal, etc.) upon graduation through the development of writing, analytic and logical reasoning, and research skills key to the study and practice of law.

The minor in pre-law requires 21 hours of courses:

- COMM 2003 Public Speaking
- ENGL 2053 Technical Writing

ENGL 2053 OF ENGL 2043

- PHIL 3103 Logic
- POLS/CJ 3023 Judicial Process or POLS 3043 Judicial Politics
- · POLS 4043 American Constitutional Law

and 6 hours selected from the following:

- BLAW 2033 Legal Environment of Business
- CJ 4023 Law and the Legal System
- · HIST 3023 The Era of the American Revolution
- HIST 4183 American Legal History
- MGMT 3123 Business Ethics
- PHIL 3023 Ethics
- < PHIL 2053



Religious Studies

The minor in religious studies is designed to provide students with the opportunity to learn about religion in cross-cultural and historical perspectives. The required courses are designed to provide a comparative perspective on world religions and to develop an appreciation of both the origins and contemporary expressions of different religions. This minor is particularly well suited for students in the humanities and social sciences as well as students in other disciplines who want to deepen their understanding of the role of religion in contemporary life.

Students must have a minimum of 2.00 grade point average in the required 18 hours to be eligible for a religious studies minor:

- ANTH 2003 Cultural Anthropology
- HIST 1503 World History to 1500
- · HIST 4503 History of Christianity
- PHIL 2013 Religions of the World
- PHIL 3053 Philosophy of Religion
- · SOC 4073 Sociology of Religion

Strategic Studies

DEGREE AUDIT CHECK LIST

(MINOR-PLAW) Pre-Law
2022-23 2023-24

Student's Name

Date			Student's Name			
Grade Point	Graduation Date	ion Date T#		- 		
General	Education Requirements	Hrs	Minor Requirements Hrs			
ENGL#			COMM	2003	3	
MATH#			ENGL	2053 or 2043	3	
SCIENCE	No oxygen west one		PHIL	3103	3	
US HIST/GOVT	,		POLS	4043	3	
SOC SCI			POLS/CJ	POLS/CJ 3023 OR POLS 3043	3	
			6 HRS	BLAW 2033 CJ 4023 HIST 3023 4183 2053 MGMT 3123 PHIL 3023 3073 POLS 4033	6	
FINE ART/HUN	1					
COMM TECH 1001 ♦						
TOTAL GEN	ED HOURS					
	PRODUCTION TO THE PRODUCTION OF THE PRODUCTION O			TOTAL MINOR HOURS	21	
TOTAL ELEC	CTIVE HOURS (0)			TOTAL HOURS		
Final Check:	Min. hours requir Earned F to be complet TOTA	Irs				

Must have 2.00 in minor Must have minimum of 6 hours in residence Must use same catalog for both major and minor



KINESIOLOGY AND REHABILITATION SCIENCE

August 31, 2022

407 West Q Street Witherspoon Hall, 336 Russellville, AR 72801

479-968-0283

TO: ATU Curriculum Committee

FROM: Erica L. Wondolowski, Ph.D., CRC

DATE: August 31, 2022

SUBJECT: Request for Change in RS Degree Type

Keeping in line with the reallocation of the Rehabilitation Science program into the College of Education and Health and the Department of Kinesiology and Rehabilitation, the Rehabilitation Science program would like to request that the scientific underpinnings of the degree be acknowledged by changing the degree awarded from a Bachelor of Arts to a Bachelor of Science.

More specifically, it is requested that the BA in Rehabilitation Science, ADHE Degree Code 1740, CIP Code 51.2314 is changed to a BS in Rehabilitation Science with no change to the curriculum, ADHE Degree Code, or CIP Code.

Thank you for your consideration in this matter.

Erica L. Wondolowski, Ph.D., CRC

Associate Professor and Program Director Rehabilitation Science Program

Arkansas Tech University

APPROVED BY:

Dr. Rockie Pederson, Department Chair

Department of Kinesiology and Rehabilitation Science

Dr. Linda Bean, Dean

College of Education and

Health



REQUEST FOR COURSE DELETION

Department Initiating Proposal	****	- 200	Date
Engineering and Computing Sciences			6/28/2022
Title	Signature		Date
Department Head	John	1 L Krohn	6/28/2022
Dean Judy L. Cezeaux	Juny.	L Cyrk	7/1/2022
Assessment	Mu	18 at	8/9/202
Registrar	Lan	my levaller	8/9(2072
Graduate Dean (Graduate Proposals Only)		U	
Vice President for Academic Affairs			
Committee			Approval Date
General Education Committee (Undergra	iduate Proposal	s Only)	
Teacher Education Committee (Graduate	or Undergradu	uate Proposals)	
Curriculum Committee (Undergraduate Pro	posals Only)		
Faculty Senate (Undergraduate Proposals Only)	***************************************	
Graduate Council (Graduate Proposals Only)			
Course Subject: (e.g., ACCT, ENGL)		Course Number: (e.g., 1003)	
ELEG		3173	Vi Vi
Official Catalog Title:			
Math Methods for Engineers			

Is this course cross-listed with another existing of Yes \(\cap \) No	ourse? If so, list course subject and number.
MATH 3173	
Will the cross-listed course be deleted?	CNo

(NOTE: If major or minor course, you must complete the Request for Program Change form to delete course from program.)

Answer the following Assessment questions:

- a. If this course is mandated by an accrediting or certifying agency, include the directive. If not, state not applicable.
 Not Applicable.
- b. If this course was required for the major or minor, complete the following.
 - How will <u>program level learning outcome(s) previously addressed</u> by this course now be addressed?

The material in this course will be covered in other courses in the curriculum. See c.

c. What is the rationale for deleting this course? What evidence supports this action? The course is no longer required in the curriculum. The course content includes linear algebra, complex variables, discrete mathematics, and applied statistics which is too broad to be covered in depth in one course. The content is now covered in other courses in the curriculum. Electrical Engineering, Electrical Engineering with Biomedical Option, and Computer Engineering majors take MATH 2703: Discrete Mathematics and STAT 3153: Applied Statistics. Linear algebra and complex variables topics are included in the ELEG 2103, 2113, and 3123 courses.

If this course will affect other departments, a Departmental Support Form for each affected department must be attached. The form is located on the Curriculum forms web page at http://www.atu.edu/registrar/curriculum forms.php.

NOTE: This deletion will be effective at the end of the spring term of the current catalog year.



REQUEST FOR COURSE DELETION

Department Initiating Proposal			Date
Mathematics and Statistics		,	6/28/2022
Title	Signature		Date
Department Head			Date
Jeanine L. Myers	Jean	e J. Myca	6/28/2022
Dean Judy L. Cezeaux	Juny	L Cyck	7/1/2022
Assessment Dr. Christine Austin	Chris	# Austri	7/8/2022
Registrar	Yam	mylerauler	811122
Graduate Dean (Graduate Proposals Only)		0	
Vice President for Academic Affairs			
Committee			Approval Date
General Education Committee (Underg	raduate Proposa	is Only)	
Teacher Education Committee (Gradua	te or Undergrad	uate Proposals)	
Curriculum Committee (Undergraduate Pr	roposals Only)		
Faculty Senate (Undergraduate Proposals On	ly)		
Graduate Council (Graduate Proposals Only)			
Course Subject: (e.g., ACCT, ENGL)		Course Number: (e.g., 10	003)
Official Catalog Title:	*	31/3	
Math Methods for Engineers			

Is this course cross-listed with another existing	course? If so, list course subject and number.
• Yes C No	
ELEG 3173	
Will the cross-listed course be deleted?	r No

(NOTE: If major or minor course, you must complete the Request for Program Change form to delete course from program.)

Answer the following Assessment questions:

- a. If this course is mandated by an accrediting or certifying agency, include the directive. If not, state not applicable.
 Not Applicable.
- b. If this course was required for the major or minor, complete the following.
 - How will <u>program level learning outcome(s) previously addressed</u> by this course now be addressed?

The material in this course will be covered in other courses in the curriculum. See c.

c. What is the rationale for deleting this course? What evidence supports this action? The course is no longer required in the engineering curriculum and math students don't take it so we are deleting it. The course content includes linear algebra, complex variables, discrete mathematics, and applied statistics which is too broad to be covered in depth in one course. The content is now covered in other courses in the curriculum. Electrical Engineering, Electrical Engineering with Biomedical Option, and Computer Engineering majors take MATH 2703: Discrete Mathematics and STAT 3153: Applied Statistics. Linear algebra and complex variables topics are included in the ELEG 2103, 2113, and 3123 courses.

If this course will affect other departments, a Departmental Support Form for each affected department must be attached. The form is located on the Curriculum forms web page at http://www.atu.edu/registrar/curriculum forms.php.

NOTE: This deletion will be effective at the end of the spring term of the current catalog year.

REQUEST FOR PROGRAM CHANGE

Department Initiating Proposal	Date
Department of Physical Sciences	3-22-2022

Signature	Date
	3-22-2022
Sman	3-22-2122
The his	8.9-2022
Lammylwance	8/9/2022
	Signature Signature Signature Signature Signature Signature

Approval Date

Program Title:	
Minor in Engineering Physics	

Outline change in program: (e.g., list changes in program such as (1) delete three hours of elective and (2) add three hours of approved major electives)

- 1- Change the name from "minor in engineering physics" to "minor in physics";
- 2- Delete 11 hours of Physics Electives;
- 3- Require the following courses: PHYS 2114, PHYS 2124, PHYS 3213;
- 4- DELETE: Add 6 hours of UD PHYS Electives;
- 5- DELETE: Add 3 hours of UP PHYS or MATH Electives; and REPLACE WITH: Change PHYS Electives (9 hours of 3000-4000 level) to 6 hours of UD PHYS Electives and 3 hours of UD PHYS or MATH Electives: and
- 6- Change engineering physics to physics in minor program description.

 What impact will the change have on staffing, on other programs and space allocation?

No impact

Answer the following Assessment questions:

Attached is the Physics degree program assessment plan.

- a. How does the program change align with the university mission? Arkansas Tech University is dedicated to student success and excellence. To achieve that we have changed the curricula for the physics and engineering physics program. As part of the change, PHYS 3023 is offered on a yearly basis. This course could play an essential role for some other majors (chemistry, electrical engineering, etc.) if they choose to go to graduate programs. So we decided to include this course in the minor of physics required courses, since it is the backbone for all the modern physics application in any part of the science.
- b. If this change in the program is mandated by an accrediting or certifying agency, include the directive. If not, state not applicable.
- c. What is the rationale for this program change? As mentioned above, PHYS 3023 is a very important course for whoever wanting to do anything physics related. It is understood that if someone wants to have a minor in physics, they possibly want to use it in some ways, and that means they must have basic understanding of the modern physics. Besides, there was no way we could have an exact number of 20 hours for students, so we changed the required number of hours to 18.
 - d. How does this program fit in the current state of the discipline? Several programs use the minor programs to introduce the physics (as a major) to students. Some students might take modern physics and realize they like to become physicists. That is one of the main reasons minor in physics is so important for our program to generate more physics majors.
 - e. Attach a detailed assessment plan including three to five specific program student learning outcomes, means or instructional measures to assess each outcome, identify program courses where learning will be assessed, and performance standards or criteria for success which demonstrate student learning for each outcome. (Examples for assessment plans/curriculum mapping can be found at the Office of Assessment and Institutional Effectiveness web page.)

 A tentative assessment plan that we use for our physics program is attached.

If this course will affect other departments, a Departmental Support Form for each affected department must be attached. The form is located on the Curriculum forms web page at http://www.atu.edu/registrar/curriculum forms.php.

Tentative Physics PLO's (Subject to change to satisfy ANSAC criteria)

(I: Introduce, R: Reinforce, E: Emphasize)

PLO 1: An ability to identify, formulate, and solve broadly defined technical or scientific problems by applying knowledge of mathematics and science and/or technical topics to classical and modern physics.

Performance Indicator		
State the fundamental laws of classical physics	PHYS 2114/2000 & 2124/2010	I
Understand the fundamental concepts of quantum physics	PHYS 3213, PHYS 4013	R
Explain different natural phenomena using the fundamental concepts of classical and quantum physics	PHYS 3023, PHYS 3133, PHYS 4003	R
Develop ways to describe a specific phenomenon and formulate it	PHYS 4951	E

PLO 2: An ability to formulate or design a system, procedure or program to meet desired needs.

Performance Indicator		
Recognize and apply the relevant laws of physics to the problem	PHYS 2114/2000, PHYS 2124/2010, PHYS 3213	,I
Use experimental, computational or theoretical methods to meet the desired needs.	PHYS 3023, PHYS 3133, PHYS 4013, PHYS 4xx3 (Computational Physics)	R
Design the needed system or develop the computer codes to solve the problem in hand.	PHYS 4951	E

PLO 3: An ability to develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgement to draw conclusion.

Performance Indicator		
Conduct experiments and collect and analyze data	PHYS 2000, PHYS 2010	1
Fit data into graphs, analyze and interpret the data using the fundamental laws of physics	PHYS 3003, PHYS 4113	R
Plan experiments to test different hypotheses, analyze the data and recommend new ideas to improve the experiment.	PHYS 4951	E

PLO 4: An ability to communicate effectively with a range of audience.

Performance Indicator		
Present Content in their own words	PHSC 1011, PHYS 2000, PHYS 2010	1
Organize and analyze the data in a meaningful and scientific way	PHYS 4113	R
Prepare presentation and present them in local or national meetings	PHYS 4951	E
Criticize peers' presentations in a scientific way	PHYS 4951	E

PLO 5: An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.

Performance Indicator		
Perform effectively in teams to conduct experiments	PHYS 2000, PHYS 2010	1
Show the ability to plan the experiments and meet the deadlines in group settings	PHYS 3003, PHYS 4113	R
Coordinate effectively within the team to plan the experiment, analyze the data and finalize the results	PHYS 4951	E

Arkansas Tech University DEPARTMENTAL SUPPORT FORM

This form must be completed for every department affected by the course change.

Department Affected: Electrical Engineering	This department x□ supports the change.	□ does not support
Comments:	100	***************************************
Support the cosmetic change for physics m	ninor.	
		Company (no. 1994)
		EGreogh
_		
Depa	rtment Head Signature:	
		Date:5/3/2021

Arkansas Tech University DEPARTMENTAL SUPPORT FORM

This form must be completed for every department affected by the course change.

Department Affected: Mechanical Engineering	This department Supports the change.	□ does not support
Comments:		
		W. Commission of the Commissio
	Department Head Signature:	Jol 2 1/102 Date: 5/3/21

DOWNLOAD PDF III

General Information

Navigate this section:

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Academic Calendar

Administration & Faculty

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Admission

ACTS Course Transfer System

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General Education Requirements

University Honors

College Distinction

Military Science

Catalog PDF

Department of Physical Sciences - Minors Available

DEPARTMENT HOMEPAGE

Chemistry

The minor in chemistry is designed for science majors who would like to further their studies in chemistry and for students who cannot complete a major in chemistry, but for employment opportunities, would like to gain basic knowledge and competencies in chemistry. The minor in chemistry requires the core chemistry courses:

- CHEM 2124 General Chemistry I and CHEM 2120 General Chemistry I Lab
- CHEM 2134 General Chemistry II and CHEM 2130 General Chemistry II Lab
- CHEM 3245 Quantitative Analysis
- CHEM 3254 Fundamentals of Organic Chemistry
- CHEM 3264 Mechanistic Organic Chemistry

Geology

The minor in geology is primarily designed for students who are majoring in disciplines where a broader background in geology can aid in recognizing and addressing geological hazards, natural disasters, environmental issues, natural resource management, conservation, and land use planning. The minor in geology requires 20 hours of courses:

- GEOL Electives (11 hours)
- GEOL Electives (9 hours of 3000 or 4000 level)

*No more than one credit hour can be a seminar course or special problem

Engineering Physics

update description

The minor in engineering physics is for engineering students or physical science students wishing to obtain additional background to support their major degree and enhance their employment opportunities. The minor in engineering physics requires 20 hours of courses:

- PHYS Electives (11 hours)
- PHYS Electives (9 hours of 3000 or 4000 level)

*No more than one credit hour can be a seminar course or special problem

Physical Science

Require: PHYS 2114 PHYS 2124 PHYS 3213

PHYS or MATH / (3 hours of 3000-4000 level) The minor in physical science is for students wishing to obtain additional background to enhance their employment opportunities. The minor in physical science requires 20 hours of courses:

- Electives (11 hours chosen from CHEM, GEOL, PHSC, or PHYS)
- Electives (9 hours of 3000 or 4000 level chosen from CHEM, GEOL, PHSC, or PHYS)

*No more than one credit hour can be a seminar course or special problem

DEGREE AUDIT CHECK LIST (MINOR-ENPH) Engineering Physics

Date Studen		Student's	t's Name	
Grade Point Graduation Date		T#		
General Education Requirements	Hrs		Minor Requirements	Hrs
ENGL#		PHYS	20 HRS (9UD) 2114 2124 32	13 20-
MATH#			LE HRS UD	
SCIENCE		PHYS	3 HRS UD	20
US HIST/GOVT		MATH		
SOC SCI			ONLY I HR OF SEMINAR OR SPECIAL	
			PROBLEM MAY COUNT	-
FINE ART/HUM				
COMM				
TOTAL GEN ED HOURS				
			TOTAL MINOR HOURS (20)	
TOTAL ELECTIVE HOURS (0)			TOTAL HOURS	

Final Check:

Min. hours required 20
Earned Hrs to be completed _____

Must have 2.00 in minor Must have minimum of 6 hours in residence Must use same catalog for both major and minor