

Approval Chart for Curriculum Changes

A = Approve I= Information Item¹ R= Advise & Respond²

Course Number _____ or Degree Plan(s) Physics - PHYS

State the requested change and reason. A memo may be attached if more space is necessary.

We need to update the required course list due to a change in the intro course sequence ENGR 115, 116 which are now ENGR 115, 116, and 117

We made changes to the concentration requirements to enable greater flexibility for students and the department in scheduling the advanced physics courses. The previously required courses were placed in an advanced elective menu increasing the number of options and hopefully providing extra flexibility in scheduling courses.

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

				COUNCIL ³						
Change to a Course		Dept./School	College Academic	Deans	TEC	UGEC	UUAC	GRAD	Provost	President
1.	Title.(description unchanged)	A	A	A		I			I	I
2.	Description (not affecting content)	A	A	A		I			I	I
3.	Course term(s)	A	I	A		I			I	I
4.	Content (substantive change)	A	A	A		I			A	I
5.	Number of hours (lecture, lab, contact)	A	A	A		A			A	I
6.	Course number within the hundred	A	A	I		I			I	I
7.	Course number beyond the hundred	A	A	A		A			A	I
8.	Prerequisites	A	A	A		I			I	I
9.	Course fee(s)	A	--	A		--			A	I
10.	From U to G or G to U	A	A	A		A			A	I
11.	Cross list with another department: U or G level	A	A	A		A			A	I
12.	Department of record	A	A	A		A			A	I
13.	Open or close a course	A	A	A		A			A	I
14.	New course — See website for application and process. This change includes combining or splitting a course(s).	A	A	A		A			A	I

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

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		COUNCIL ³										President	Faculty	Provost	GRAD	UUAC	UGEC	TEC	Deans	College Academic	Dept./School
Change to a Degree Plan																					
1.	University Requirements — Change in approved course content ⁶	A	A	A	A			A	--	A	--	A	--								
2.	University Requirements — Add or drop a required course from the University Requirements chart ⁶	A	A	A	A			A	A	A	--	A	--								
3.	University Requirements — Add or drop a course from a menu within the University Requirements ⁶	A	--	--	A			A	--	A	--	A	--								
4.	University Requirements — Change hours within a menu on the University Requirements chart ⁶	A	A	A	A			A	A	A	--	A	--								
5.	Major — Revision of major ^{4,5}	A	A	A	A			A	--	A	--	A	--								
6.	Major — Adopt or change admission requirements	A	A	A	A			A	--	A	--	A	--								
7.	Major — Add ^{4,5}	A	A	A	A			A	A	A	A	I	I								
8.	Major — Discontinue (proposed by the department or college)	A	A	A	A			A	A	A	A	I	I								
9.	Major — Discontinue (proposed by the Provost)	See below.																			
10.	GPA — Revise major or cumulative requirement	A	A	A	A			A	A	A	--	A	--								
11.	Minor — Revise course selection	A	A	A	I			I	--	I	--	I	--								
12.	Minor — Add	A	A	A	A			A	--	A	--	A	--								
13.	Minor — Discontinue (proposed by the department or college)	A	A	A	A			A	--	A	--	A	--								
14.	Minor — Discontinue (proposed by the Provost)	See below.																			
15.	Degree — Add	A	A	A	A			A	A	A	A	I	I								
16.	Degree — Discontinue (proposed by the department or college)	A	A	A	A			A	A	A	A	I	I								
17.	Degree — Discontinue (proposed by the Provost)	See below.																			
18.	Any change to a graduate degree program	A	A	A	A			A	--	A	--	A	--								

COUNCIL ³										
	Provost-Proposed Change	Provost	Department	Dean	TEC	UAC	Graduate	Faculty	President	Board of Trustees
1.	Major/Graduate Program – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I
2.	Minor – Discontinue (proposed by the Provost)	A	R	R	A			--	A	--
3.	Degree – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I

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COUNCIL ³										
	Change to the Catalog Information	Dept./School	College Academic	Deans	UGEC	UUAC	GRAD	Provost	Faculty	President
1.	General requirements for graduation including course requirements that are common to all majors for all degrees ⁷	-	-	-	A			A	A	A
2.	Admission requirements	-	-	-	A			A	A	A
3.	Policies governing academic probation and suspension	-	-	-	A			A	A	A
4.	Requirements for graduating with honors	-	-	-	A			A	A	A

¹ Councils may request additional information about "Information" items. These items are approved as "Consent Agenda."

² The Dean and Department should respond to the Provost's recommendation to close a program in writing. Advise & Respond (R) requires that the voting body should receive the written responses at least one week prior to the vote.

³ All courses that meet University Requirements for general education must go through UGEC. Courses or degrees offered only to students seeking teacher certification must go through the Teacher Education Council. All undergraduate changes must go before the UUAC. All graduate degree plan changes must go through the Graduate Council.

⁴ A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

⁵ Program or course changes that apply to any major that includes Teacher Certification will be reviewed by the college, the Teacher Education Council (TEC), and then the UUAC.

⁶ Courses that satisfy ACU's University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and "not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession" (SACS 2.7.3). Departments may request exceptions to the first three criteria.

⁷ The UUAC approved the clarification that "general requirements for graduation" means the enumerated items in the "General Requirements for Bachelor's Degrees" section of the catalog.

Revised 8-26-19

Curriculum/Catalog Changes Signature Page

Department/School Chair(s)	
 Signature	2/11/2020 Approval date
_____ Signature	_____ Approval date

College Academic Council(s)	
 Signature	03/25/2020 Approval date
_____ Signature	_____ Approval date

Dean(s)	
 Greg Straughm (Mar 26, 2020) Signature	_____ Approval date
_____ Signature	_____ Approval date

Teacher Education Council	
_____ Chair's signature	_____ Approval date

General Education Council	
_____ Chair's signature	_____ Approval date

Undergraduate Academic Council	
_____ Chair's signature	_____ Approval date

Graduate Council	
_____ Chair's signature	_____ Approval date

Provost	
_____ Signature	_____ Approval date

Faculty	
_____ Chair of faculty senate	_____ Approval date

President	
_____ Signature	_____ Approval date

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University Requirements

Please see the [University Requirements](#) section of this catalog.

Major Requirements

Physics

- [ENGR 115 - Introduction to Engineering and Physics](#) Credit Hours: ~~2~~1
- [ENGR 116 - Introduction to Engineering and Physics Laboratory](#) Credit Hours: 1
- [ENGR 117 – Computational Tools for Engineering and Physics](#) Credit Hours: 1
- [PHYS 220 - Engineering Physics I](#) Credit Hours: 3 *
- [PHYS 221 - Engineering Physics I Laboratory](#) Credit Hours: 1
- [PHYS 222 - Engineering Physics II](#) Credit Hours: 3 *
- [PHYS 223 - Engineering Physics II Laboratory](#) Credit Hours: 1
- [PHYS 330 - Modern Physics](#) Credit Hours: 3 *
- [PHYS 331 - Modern Physics Laboratory](#) Credit Hours: 1
- [PHYS 362 - Optics](#) Credit Hours: 3
- [PHYS 363 - Optics Laboratory](#) Credit Hours: 1
- [PHYS 379 - Philosophy, Religion and Science](#) Credit Hours: 3 *
- [PHYS 497 - Physics Capstone I](#) Credit Hours: 2 (capstone and writing- intensive course)
- [PHYS 498 - Physics Capstone II](#) Credit Hours: 2 (capstone course)

*Hours may also fulfill university requirements and are not included in total major hours

Mathematics

- [MATH 185 - Calculus I](#) Credit Hours: 3 *
- [MATH 186 - Calculus II](#) Credit Hours: 3

*Hours may also fulfill university requirements and are not included in total major hours

Total: ~~20~~ 17 Credit Hours

Physics (PHYS)

- [PHYS 135 - Introduction to Electric Circuits](#) Credit Hours: 3

- [PHYS 136 - Introduction to Electric Circuits Laboratory](#) Credit Hours: 1
- [PHYS 360 - Electricity and Magnetism](#) Credit Hours: 3
- [PHYS 371 - Classical Mechanics](#) Credit Hours: 3
- ~~PHYS 461 - Nuclear Physics Credit Hours: 3~~
- [PHYS 463 - Math of Physics and Engineering](#) Credit Hours: 3
- ~~PHYS 472 - Solid State Physics Credit Hours: 3~~
- [PHYS 481 - Thermodynamics](#) Credit Hours: 3
- [PHYS 491 - Quantum Mechanics](#) Credit Hours: 3
- ~~PHYS 493 - General Relativity Credit Hours: 3~~
- [MATH 286 - Calculus III](#) Credit Hours: 3 *
- [MATH 325 - Linear Algebra](#) Credit Hours: 3
- [MATH 361 - Ordinary Differential Equations](#) Credit Hours: 4
- [CHEM 131 - General Chemistry Laboratory I](#) Credit Hours: 1
- [CHEM 133 - General Chemistry I](#) Credit Hours: 3
- [CS 120 - Programming I](#) Credit Hours: 3
- Choose 9 hours from PHYS 300-499 Credit Hours: 9

*Hours may also fulfill university requirements and are not included in total major hours

Total: ~~42~~ 45 Credit Hours

Electives

Minimum - 10 Credit Hours

Total Major Hours: 72

Other Graduation Requirements

Minimum grade for PHYS courses: C

Minimum GPA for graduation: 2.00

Minimum advanced hours: 33 Credit Hours

Minimum total hours: 128 Credit Hours

*Courses numbered 0** do not count in minimum hours required for degree.*