

Approval Chart for Curriculum Changes

A = Approval I = Information*

Course Number _____ or Degree Plan(s) **PHMT**

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

The proposed change incorporates the spirit of the Education, Chemistry, Biology and Engineering and Physics Departments to offer a composite-science teaching track for high school teaching. The changes made by the Engineering and Physics Department involves changing the "BS: High School Teacher Certification - Physics and Mathematics Degree" to include a track for composite science and PHMT. Other than changing math hours in PHMT to Biology and Chemistry hours in the Physics Composite Science (PHCS) there is the replacement of Math Capstone in an Engineering and Physics Degree with the Physics Capstone. The capstone change is now possible with the passing physics capstone in spring 2013, and was planned on from the inception of the degree. PHYS 401, which was also passed a couple years back, has been included to replace physics elective hours as agreed to when the course was jointly developed. Because electronics is such a part of daily life and a unique lab experience transferrable to the High school level, the incorporation of Introduction to Electronics/Lab (3 hours together) has been also placed into the degree in lieu of physics elective hours for both tracks.

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

COUNCIL**

	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.	Content (substantive change)	A	A	A		I			A	A
4.	Number of hours (lecture, lab, contact)	A	A	A		A			A	A
5.	Course number within the hundred	A	A	I		I			I	I
6.	Course number beyond the hundred	A	A	A		A			A	A
7.	Prerequisites	A	A	A		I			I	I
8.	Course fee(s)	A	--	A		--			A	I
9.	From U to G or G to U	A	A	A		A			A	A
10.	Cross list with another dept: U or G level	A	A	A		A			A	A
11.	Department of record	A	A	A		A			A	A
12.	Open or close a course	A	A	A		A			A	A
13.	New course — See Adams Center for packet. This change includes combining or splitting a course(s).	A	A	A		A			A	A

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

**Courses offered only to students seeking teacher certification must go through the Teacher Education Council.

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.

Approval Chart for Curriculum Changes

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	Change to a Degree Plan	Dept./School	College Academic	Deans	TEC	COUNCIL			Provost	Faculty	President
						UGEC	UUAC	GRAD			
1.	University Requirements — Change in approved course content**	A	A	A		A			A	--	A
2.	University Requirements — Add or drop a required course from the University Requirements chart**	A	A	A		A			A	A	A
3.	University Requirements — Add or drop a course from a menu within the University Requirements**	A	A	A		A			A	--	A
4.	University Requirements — Change hours within a menu on the University Requirements chart**	A	A	A		A			A	A	A
5.	Major — Revision of major ♦ ‡	A	A	A		A			A	--	A
6.	Major — Adopt or change admission requirements	A	A	A		A			A	--	A
7.	Major — Add or discontinue	A	A	A		A			A	A	A
8.	GPA — Revise major or cumulative requirement	A	A	A		A			A	A	A
9.	Minor — Revise course selection	A	A	A		I			I	--	I
	Minor — Add or discontinue	A	A	A		A			A	--	A
10.	Degree — Add or discontinue	A	A	A		A			A	A	A
11.	Any change to a graduate degree program*	A	A	A		A			A	--	A

♦ 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.

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

* All graduate degree plan changes must go through the Graduate Council.

** Courses that satisfy ACU's University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and corequisites, 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.

Note: The Board of Trustees is informed when a major or degree is added or discontinued.

Revised 4-18-12

Approval Chart for Academic Information Changes

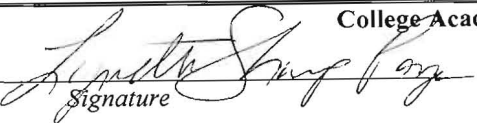
	Change to the Catalog	Dept./School	College Academic	Deans	UGEC	UUAC	GRAD	Provost	Faculty	President	Board of Trustees
1.	General requirements for graduation including course requirements that are common to all majors for all degrees*	--	I	--		A		A	A	A	--
2.	Admission requirements	--	--	--		A		A	A	A	--
3.	Policies governing academic probation and suspension	--	--	--		A		A	A	A	--
4.	Requirements for graduating with honors	--	--	--		A		A	A	A	--
5.	Other academic policy changes	--	--	--		A		A	--	A	

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

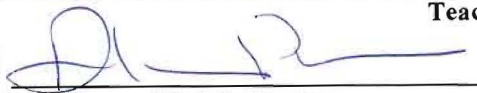
Revised 3-2-11

Curriculum/Catalog Changes Signature Page

Department/School Chair(s)	
 Signature	<u>2-27-14</u> Approval date
_____ Signature	_____ Approval date

College Academic Council(s)	
 Signature	<u>3-4-14</u> Approval date
_____ Signature	_____ Approval date

Dean(s)	
_____ Signature	_____ Approval date
_____ Signature	_____ Approval date

Teacher Education Council	
 Chair's signature	<u>3-17-14</u> Approval date
_____ Chair's signature	_____ Approval date

General Education Council	
_____ Chair's signature	_____ Approval date
_____ Chair's signature	_____ Approval date

Undergraduate Academic Council	
_____ Chair's signature	_____ Approval date
_____ Chair's signature	_____ Approval date

Graduate Council	
_____ Chair's signature	_____ Approval date
_____ Chair's signature	_____ Approval date

Provost	
_____ Signature	_____ Approval date
_____ Signature	_____ Approval date

Faculty	
_____ Chair of faculty senate	_____ Approval date
_____ Chair of faculty senate	_____ Approval date

President	
_____ Signature	_____ Approval date
_____ Signature	_____ Approval date

HIGH SCHOOL TEACHER CERTIFICATION - PHYSICS AND MATHEMATICS (BS)
BS: HIGH SCHOOL TEACHER CERTIFICATION - PHYSICS AND MATHEMATICS
DEGREE PLAN (PHMT)

UNIVERSITY REQUIREMENTS	
Please see the University Requirements section of this catalog.	
MAJOR REQUIREMENTS	
Physics	
PHYS 120 Engineering Physics I	(3)
PHYS 121 Engineering Physics I Lab	(1)
PHYS 122 Engineering Physics II	(3)
PHYS 123 Engineering Physics II Lab	(1)
PHYS 230/231 Modern Physics Lecture/Lab	4
PHYS 335/336 Introduction to Electronics	4
PHYS 401 Secondary Science Methods	3
PHYS 497/498 Capstone I/II (capstone and writing-intensive course)	4
TOTAL	15
Mathematics	
MATH 185 Calculus I	(3)
MATH 186 Calculus II	3
TOTAL	3
Hours (in parentheses) may also fulfill university requirements and are not included in total major hours	
CONCENTRATIONS (CHOOSE ONE)	
PHYSICS AND MATHEMATICS DEGREE PLAN (PHMT)	
5 additional hours (3 must be advanced from PHYS 300-499 (except 378))	5
Math	
MATH 187 Calculus Computer Lab	1
MATH 227 Discrete Mathematics	1
MATH 286 Calculus III	3
MATH 309 Algebraic Concepts for Teachers I	3
MATH 311 Geometric Concepts for Teachers I	3
MATH 361 Ordinary Differential Equations	3
MATH 377 Statistical Methods I	3
PHMT TOTAL	24
COMPOSITE SCIENCE - ENGINEERING AND PHYSICS (PHCS)	
Biology	
BIOL 112/114 General Biology I/Lab	4
BIOL 113/115 General Biology II/Lab	4
Chemistry	
CHEM 133/131 General Chemistry I/Lab	4
CHEM 134/132 General Chemistry II/Lab	4
Physics	
8 additional hours (7 must be advanced from PHYS 300-499)	8
PHCS TOTAL	24

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OTHER REQUIREMENTS	
Teacher Education Requirements	
EDUC 211 Educational Foundations and Multicultural Perspectives	(3) ¹
EDUC 221 Educational Psychology	(3) ¹
EDUC 412 Secondary Curriculum and Media (capstone course)	3
EDUC 432 Secondary Management and Methods (capstone course)	3
EDUC 476 Effective Strategies for English Language Learners	3
EDUC 490 Student Teaching (capstone course)	6
READ 322 Reading in Secondary Content Areas	3
SPED 371 Teaching Students With Special Needs (writing-intensive course)	3
Other Required Course	
ENGR 115/116 Introduction to Engineering and Physics	4
PHIL 379 Philosophy, Religion and Science	(3) ¹
TOTAL	25
Hours (in parenthesis) may also fulfill university requirements and are not included in total major hours	
ELECTIVES	
Minimum	5
TOTAL MAJOR HOURS	72
CRITERIA FOR ADMISSION TO TEACHER EDUCATION	
In accordance with Texas state law, students must meet the admission criteria described in the Teacher Education section.	
OTHER GRADUATION REQUIREMENTS	
Minimum GPA in major requirements	2.75
Minimum GPA for graduation	2.75
Minimum advanced hours	33
Minimum total hours	128
<i>Courses numbered 0** do not count in minimum hours required for degree.</i>	

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