

Abilene Approval Chart for Curriculum Changes

A = Approve I = Information Item R = Respond In Writing

Course Number: _____ **or Degree Plan(s):** PHYN - Engineering Physics

We are updating the course listings to match changes being made as part of the addition of the ME, CE, and EE programs. ENGR 221 is removed since it will no longer be offered and ENGR 222 is put in instead. This also adds 1 elective hour back to the plan.

		Dept/ School	College	Dean	TEC	AUAC/ Grad	Provost
	Campus-Level Academic Review¹						
	Change to a Course Include signatures from all chairs/program directors for cross-listed courses. ¹						
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 (change of course outcomes)	A	A	A	I	I	A
5.	Number of credit hours	A	A	A	A	A	A
6.	Course number within the hundred	A	A	I	I	I	I
7.	Course number beyond the hundred	A	A	A	A	A	A
8.	Prerequisites	A	A	A	I	I	I
9.	Course restriction (e.g., majors only, junior standing)	A	A	A	A	A	A
10.	Level change (U to G or G to U)	A	A	A	A	A	A
11.	Cross list course	A	A	A	A	A	A
12.	Department of record	A	A	A	A	A	A
13.	Open or close a course	A	A	A	A	A	A
	Change to a Degree Plan						
14.	Educational Program — Revise	A	A	A	A	A	A
15.	Educational Program — Adopt/revise admission requirements	A	A	A	A	A	A
16.	GPA — Revise program-required GPA	A	A	A	A	A	A
17.	Minor — Revise	A	A	A	A	A	A

		Dept./School	College	Dean	TEC	AUAC/Grad	Provost	Campus Faculty	Senior VPAA	President
	Full Review									
	Change to Catalog Information (for Campus)									
18.	General requirements for Bachelor's and Associate Degrees	-	-	-	-	A	A	A	A	I
19.	Policies governing academic probation and suspension	-	-	-	-	A	A	A	A	I
20.	Requirements for graduating with honors	-	-	-	-	A	A	A	A	I
	Change to a Degree Plan									
21.	Educational Program — Add or Discontinue ²³	A	A	A	A	A	A	A	A	I
22.	Educational Program — Discontinue (Provost-proposed)	R	-	R	A	A	A	A	A	I
23.	Minor — Add or Discontinue	A	A	A	A	A	A	-	A	I
24.	Minor — Discontinue (Provost-proposed)	R	-	R	A	A	A	-	A	I
25.	Degree — Add or Discontinue	A	A	A	A	A	A	A	A	I
26.	Degree — Discontinue (Provost-proposed)	R	-	R	A	A	A	A	A	I

		Dept./School	College	Dean	AUAC	Provost	UGEC	University Faculty	Senior VPAA	President
	Change to General Education Requirements for Undergraduates (System)									
27.	Change course outcomes of an included course	A	A	A	A	A	A	-	A	I
28.	Add or drop a required course from the General Education Requirements	A	-	A	-	A	A	A	A	I
29.	Add or drop a course from a menu within the General Education Requirements	A	-	A	-	A	A	-	A	I
30.	Comprehensive revision of General Education Requirements	-	-	-	-	A	A	A	A	I

Notes

² Any change to a cross-listed course requires the signature of both department chairs or program directors overseeing the course to ensure that the courses stay in sync. This includes courses taught at other campuses (e.g. BIBL 101 and BIBO 101).

³ For undergraduate majors, a minimum of 30 hours is required. These programs must have a minimum of 6 elective hours, unless the requirements of external accrediting bodies make it impossible. Master's programs must include a minimum of 30 hours, and doctoral programs must include a minimum of 30 hours beyond the master's.

⁴ When a department/school or dean proposes closing a program, approval routing follows the typical process beginning with the department/school. An administrative proposal by the provost or senior vice president for academic affairs would follow the "provost-proposed" routing on the chart.

Updated 8/1/2023

Department/School(s)	
	2/2/2024
Chair Signature	Date
Chair/Program Director Signature	Date
College Academic Council(s)	
	2/2/2024
Chair Signature	Date
Chair Signature	Date
Dean(s)	
	2/2/2024
Signature	Date
Signature	Date
Teacher Education Council	
Signature	Date
Campus Academic Council: Abilene Undergraduate or Abilene Graduate	
Signature	Date
Provost	

Signature

Date

University General Education Council

Signature

Date

University Faculty

Abilene Faculty Senate Chair signature

Date

Dallas Faculty Council Chair signature

Date

Senior Vice President for Academic Affairs

Signature

Date

President

Signature

Date

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Physics, Engineering Physics, BS (PHYS-PHYN)

BS: Physics Degree Plan (PHYS)

General Departmental Requirements

Physics majors must develop mathematical skills as well as experimental, theoretical, and computational abilities. If the student does not qualify to take Precalculus II ([MATH 124](#)) when the student enters ACU, his or her graduation may be delayed.

General Education Requirements

Please see the [General Education](#) section of this catalog.

Major Requirements

Physics

[ENGR 115 - Introduction to Engineering and Physics](#) Credit Hours: 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 general education 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 general education requirements and are not included in total major hours**

Total: 20 Credit Hours

Engineering Physics (PHYN)

CS 120 - Programming I Credit Hours: 3

CHEM 131 - General Chemistry Laboratory I Credit Hours: 1

CHEM 133 - General Chemistry I Credit Hours: 3

ENGR 131 - Computer Aided Design and Modeling Credit Hours: 1

~~**ENGR 221 - Statics and Dynamics Credit Hours: 4**~~

ENGR 222 - Dynamics Credit Hours: 3

MATH 286 - Calculus III Credit Hours: 3

ENGR 377 - Statistics for Engineers Credit Hours: 3

MATH 361 - Ordinary Differential Equations Credit Hours: 4

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

ENGR 322 - Advanced Dynamics and Vibrations Credit Hours: 3

or

PHYS 371 - Classical Mechanics Credit Hours: 3

PHYS 463 - Math of Physics and Engineering Credit Hours: 3

ENGR 281 - Engineering Thermodynamics Credit Hours: 3

or

PHYS 481 - Thermodynamics Credit Hours: 3

PHYS 491 - Quantum Mechanics Credit Hours: 3

**Chose 9 credit hours from any ENGR, CIVE, ECEN, MECH, or PHYS courses
300 or higher Credit Hours: 9**

Total: ~~50~~ 49 Credit Hours

Electives

Minimum - ~~4~~ 5 Credit Hours

Total Major Hours: 74

Other Graduation Requirements

Minimum grade for PHYS and ENGR 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.