

Abilene Approval Chart for Curriculum Changes

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

Course Number: _____ **or Degree Plan(s): Bachelor of Science in Engineering (BSE)**

Proposed changes to the BSE degree plan

The proposed degree plan change is to eliminate concentrations from the Bachelor of Science in Engineering (BSE) degree plan. The purpose of this change is to avoid confusion by offering clarity and distinction from the new discipline-specific degree plans (BSME, BSEE, BSCE). The BSE degree plan has also been arranged such that the engineering core is made consistent with the new discipline-specific degrees. The proposed change will also see the BSE become the General Engineering (BS) degree plan to better facilitate students wishing to double major while offering greater flexibility for students who do not wish to specialize. Please see General Engineering (BS) Degree Plan below.

The proposed changes:

- Degree plan modification to ensure conformity to structure of new degrees
- Removal of discipline concentrations to reduce confusion and to provide students interested in a general degree with more flexibility
- Degree change from BSE to BS to facilitate dual majors

		D e p t . / S c h o o l	C o l l e g e	D e a n	T E C	A U A C / G r a d	P r o v o s t
	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

		D e p t . / S c h o o l	C o l l e g e	D e a n	T E C	A U A C / G r a d	P r o v o s t	C a m p u s F a c u l t y	S e n i o r V P A A	P r e s i d e n t
	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 ^{2 3}	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

		D e p t . / S c h o o l	C o l l e g e	D e a n	T E C	A U A C / G r a d	P r o v o s t	C a m p u s F a c u l t y	S e n i o r V P A A	P r e s i d e n t
	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)



12/1/23

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

General Engineering (BS) Degree Plan

General Education Requirements

Please see the General Education section of this catalog.

Major Requirements

Chemistry

- CHEM 133 – General Chemistry I Credit Hours: 3
- CHEM 131 – General Chemistry Laboratory I Credit Hours: 1

Total: 4 Credit Hours

Engineering Core

- ENGR 115 – Introduction to Engineering and Physics Credit Hours: 1
- ENGR 116 – Introduction to Engineering and Physics Laboratory Credit Hours: 1
- ENGR 217 – Engineering Career Skills Credit Hours: 1
- ENGR 306 – Engineering Ethics Credit Hours: 1
- ENGR 317 – Engineering Project Management Credit Hours: 1
- ENGR 350 – Engineering Economics Credit Hours: 3 *
- ENGR 390 – Junior Clinic Credit Hours: 3
- ENGR 430 – Senior Clinic I Credit Hours: 2 (capstone course)
- ENGR 432 – Senior Clinic II Credit Hours: 2 (capstone and writing-intensive course)

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

Total: 12 Credit Hours

Mathematics

- MATH 185 – Calculus I Credit Hours: 3 *
- MATH 186 – Calculus II Credit Hours: 3
- MATH 286 – Calculus III Credit Hours: 3
- MATH 361 – Ordinary Differential Equations Credit Hours: 4

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

Math/Science Selections

Choose 3 hours from the following:

- MATH 341 – Numerical Methods Credit Hours: 3
- MATH 325 – Linear Algebra Credit Hours: 3
- MATH 463 – Partial Differential Equations Credit Hours: 3
- BIOL 121 – Introductory Biology I or above (excluding BIOL 203) Credit Hours: 3
- CHEM 114 – Introductory Organic and Biological Chemistry or above (excluding CHEM 203) Credit Hours: 3
- PHYS 330 – Modern Physics or above (excluding PHYS 360, PHYS 362, PHYS 363, PHYS 379, PHYS 388, PHYS 401, PHYS 481, and PHYS 499) Credit Hours: 3

Total: 13 Credit Hours

Philosophy

- PHIL 379 – Philosophy, Religion and Science Credit Hours: 3*

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

Total: 0 Credit Hours

Physics

- 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

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

Total: 2 Credit Hours

General Engineering Requirements

- ENGR 117 – Computational Tools for Engineering and Physics Credit Hours: 1 or CS 120 – Programming I Credit Hours: 3
- ENGR 131 – Computer Aided Design and Modeling Credit Hours: 1
- ENGR 135 – Introduction to Electric Circuits Credit Hours: 3
- ENGR 136 – Introduction to Electric Circuits Laboratory Credit Hours: 1
- ENGR 220 – Statics Credit Hours: 3
- ENGR 222 – Dynamics Credit Hours: 3
- ENGR 281 – Engineering Thermodynamics Credit Hours: 3
- ENGR 320 – Material Science Credit Hours: 3
- ENGR 332 – Mechanics of Materials Credit Hours: 3

- ENGR 333 – Fluid Mechanics Credit Hours: 3

Total: 24-26 Credit Hours

Engineering Electives

- Choose 6 hours from CIVE 200-498, ECEN 200-498, ENGR 200-498, MECH 200-498

Advanced Technical/Physical Science Electives

- Choose 10 hours from CIVE 300-498, ECEN 300-498, ENGR 300-498, MECH 300-498, or PHYS 300-498

Electives

Minimum - 1-3 Credit Hours

Total Major Hours: 74

Other Graduation Requirements

Minimum grade for PHYS or ENGR courses: C

Minimum GPA for graduation: 2.00

Minimum advanced hours: 33

Minimum total hours: 128

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