

Abilene Approval Chart for Curriculum Changes

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

Course Number: _____ or Degree Plan(s): GENG (General Engineering)

Here are the substantive changes:

- The addition of ENGR 377 (Statistics for Engineers).
- CS 120 has been moved from a menu item under “Engineering Requirements” to a menu item under “Math/Science Requirements”
- ENGR 220 (Statics) and ENGR 332 (Mech. of Mat.) are replaced with ENGR 223 (Statics and Mech. of Mat.)
- ENGR 136 (Circuits Lab) removed to match MECH
- PHYS 379 removed to match MECH, CIVE, and ECEN
- Number of ENGR/CIVE/ECEN/MECH electives increased from 9 to 12

Otherwise, sections have been reorganized to better match the other engineering programs.

	Campus-Level Academic Review ¹						
	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

	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

	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.

	Department/School(s)
Chair Signature	3/3/25 Date

Chair/Program Director Signature	Date
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College Academic Council(s)	
	3/7/2025
Chair Signature	Date

Chair Signature	Date
Dean(s)	

	3/7/2025
Signature	Date

Signature	Date
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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

BS: Engineering (GENG)

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 general education requirements and are not included in total major hours

Total: 12 Credit Hours

Mathematics Math/Science Requirements

CHEM 131 - General Chemistry Laboratory I Credit Hours: 1
CHEM 133 - General Chemistry I Credit Hours: 3
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
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
ENGR 377 - Statistics for Engineers Credit Hours: 3

*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
- CS 120 - Programming I Credit Hours: 3

Total: 43 22 Credit Hours

Philosophy

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

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

Total: 2 Credit Hours

Total: 34 34 Credit Hours

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 - Engineering Mechanics: Statics Credit Hours: 3~~

ENGR 222 - Engineering Mechanics: Dynamics Credit Hours: 3

ENGR 223 - Statics and Mechanics of Materials Credit Hours: 4

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~~ 21 Credit Hours

Engineering Electives

Choose 6 hours **not already taken** from the following:

- CIVE 200-498, ECEN 200-498, ENGR 200-498, MECH 200-498

Total: 6 Credit Hours

Advanced Technical/Physical Science Electives

Choose ~~40~~ 12 hours not already taken from the following:

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- CIVE 300-498, ECEN 300-498, ENGR 300-498, MECH 300-498, or PHYS 300-498

Total: ~~40~~ 12 Credit Hours

Electives

Minimum - ~~13~~ 1 Credit Hours

Total Major Hours: 74

Other Graduation Requirements

Minimum grade for CIVE, ECEN, ENGR, MECH, or PHYS courses: C

Minimum GPA for graduation: 2.00

Minimum advanced hours: 33

Minimum total hours: 128