Abilene Approval Chart for Curriculum Changes

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

Course Number: Remove BIOL 492 Physiology &
Replace with BIOL 494 Human Physiology

or Degree Plan(s): BMSC-Biomedical Sciences-General
BMSC-Biomedical Sciences-Pre-Dental
BMSC-Biomedical Sciences-PA
BMSC-Biomedical Sciences-Pharm/Opt

OSCE Biomedical Sciences committee is recommending removing the BIOL 492 Physiology requirement and replacing it with the Department of Biology's new course BIOL 494 Human Physiology. The course content in Human Physiology is a better choice for a Biomedical Sciences degree programs and tracks that prepare students for careers in human health.

	Campus-Level Academic Review[1]	Dept./School	College	Dean	TEC	AUAC/Grad	Provost
	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	Dept./School	College	Dean	TEC	AUAC/Grad	Provost	Campus Faculty	Senior VPAA	President
	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 [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

	Change to General Education Requirements for Undergraduates (System)	Dept./School	College	Dean	AUAC	Provost	UGEC	University Faculty	Senior VPAA	President
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)

Chair Signature	Date
Diana J Hanson	3/3/26
Chair/Program Director Signature	Date

College Academic Council(s)

Kathleen Lee	04/02/2026
Chair Signature	Date
Chair Signature	Date

Dean(s)

Charles S Mantsch	4/7/2026
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

BS: Biomedical Sciences (BMSC)

General Education Requirements

Please see the General Education section of this catalog.

Major Requirements

Biomedical Sciences

- BIOL 121 - Introductory Biology I Credit Hours: 3 *
- BIOL 122 - Introductory Biology I Laboratory Credit Hours: 1
- BIOL 123 - Introductory Biology II Credit Hours: 3
- BIOL 124 - Introductory Biology II Laboratory Credit Hours: 1
- CHEM 133 - General Chemistry I Credit Hours: 3
- CHEM 131 - General Chemistry Laboratory I Credit Hours: 1
- CHEM 134 - General Chemistry II Credit Hours: 3
- CHEM 132 - General Chemistry Laboratory II Credit Hours: 1
- PHP 201 - Introduction to Health Professions Seminar Credit Hours: 1
- PHP 301 - Health Professions Application Seminar Credit Hours: 1
- BIBP 352 - Biomedical Ethics Credit Hours: 3 *
-
- BIOL 497 - Seminar in Biology Credit Hours: 3 (capstone and writing-intensive course)
- *or*
- CHEM 423 - Chemistry and Biochemistry Seminar Credit Hours: 3 (capstone and writing-intensive course)
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 18 Credit Hours

General Concentration

- BIOL 312 - Cell Biology Credit Hours: 3
- BIOL 351 - Genetics Credit Hours: 3
- BIOL 352 - Genetics Laboratory Credit Hours: 1
- ~~BIOL 492 - Physiology Credit Hours: 3.~~ Replace with BIOL 494-Human Physiology Credit Hours: 3
- CHEM 221 - Organic Chemistry Laboratory I Credit Hours: 1
- CHEM 223 - Organic Chemistry I Credit Hours: 3
- CHEM 322 - Organic Chemistry Laboratory II Credit Hours: 1
- CHEM 324 - Organic Chemistry II Credit Hours: 3
- CHEM 453 - Biochemistry I: Foundations of Biochemistry Credit Hours: 3
- CHEM 456 - Biochemistry III: Metabolism Credit Hours: 2

Total: 23 Credit Hours

Advanced Biomedical Sciences Electives

Choose a minimum of 6 hours from the following courses:

- BIOL 355 - Microbiology Credit Hours: 3
- BIOL 357 - Microbiology Laboratory Credit Hours: 1
- BIOL 452 - Virology Credit Hours: 3

- BIOL 454 - Immunology Credit Hours: 3
- BIOL 475 - Molecular Genetics Credit Hours: 3
- BIOL 480 - Histology Credit Hours: 3
- BIOL 484 - Developmental Biology Credit Hours: 3
- BIOL 491 - Human Anatomy Credit Hours: 3
- BIOL 493 - Human Anatomy Laboratory Credit Hours: 1
- BIOL 495 - Physiology Laboratory Credit Hours: 1
- BIOL 498 - Cancer Biology Credit Hours: 3
- CHEM 356 - Analytical Chemistry II Credit Hours: 4
- CHEM 413 - Physical Chemistry/Life Sciences Credit Hours: 3
- CHEM 430 - Medicinal Chemistry Credit Hours: 3
- CHEM 454 - Biochemistry II: Gene Expression Credit Hours: 3
- CHEM 463 - Biochemistry Laboratory I Credit Hours: 1

Total: 6 Credit Hours

Advanced Biology & Chemistry Selections

Choose a minimum of 9 hours, not previously taken, from BIOL (300-499) or (CHEM 300-499).
Total: 9 Credit Hours

Experiential Learning

Students are required to complete an experiential learning component.
Choose one option from the list below:

- BIOL 399 - Biology Research Credit Hours: 1-3^
- CHEM 393 - Introduction to Research Credit Hours: 0-3^
- PHP 305 - Medical Missions Seminar Credit Hours: 1
- PHP 308 - Global Healthcare Credit Hours: 3 ^
- PHP 315 - Clinical Healthcare Internship Credit Hours: 1
- Other Study Abroad Experience^

^Hours fulfill either general education or major requirements and are not counted a second time for this requirement.
Total: 0-1 Credit Hours

Supplement for Major

Physics

- PHYS 110 - General Physics I Credit Hours: 3 *
- PHYS 111 - General Physics I Laboratory Credit Hours: 1
- PHYS 112 - General Physics II Credit Hours: 3
- PHYS 113 - General Physics II Laboratory Credit Hours: 1

Mathematics

- MATH 131 - Calculus for Application Credit Hours: 3 *
- *or*
- MATH 185 - Calculus I Credit Hours: 3 *
-

- MATH 123 - Elementary Statistics Credit Hours: 3
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 8 Credit Hours

Electives

Minimum - 9-10 Credit Hours
Total Major Hours: 74

BS: Biomedical Sciences (BMSC-PDEN)

General Education Requirements

Please see the General Education section of this catalog.

Major Requirements

Biomedical Sciences

- BIOL 121 - Introductory Biology I Credit Hours: 3 *
- BIOL 122 - Introductory Biology I Laboratory Credit Hours: 1
- BIOL 123 - Introductory Biology II Credit Hours: 3
- BIOL 124 - Introductory Biology II Laboratory Credit Hours: 1
- CHEM 133 - General Chemistry I Credit Hours: 3
- CHEM 131 - General Chemistry Laboratory I Credit Hours: 1
- CHEM 134 - General Chemistry II Credit Hours: 3
- CHEM 132 - General Chemistry Laboratory II Credit Hours: 1
- PHP 201 - Introduction to Health Professions Seminar Credit Hours: 1
- PHP 301 - Health Professions Application Seminar Credit Hours: 1
- BIBP 352 - Biomedical Ethics Credit Hours: 3 *
-
- BIOL 497 - Seminar in Biology Credit Hours: 3 (capstone and writing-intensive course)
- *or*
- CHEM 423 - Chemistry and Biochemistry Seminar Credit Hours: 3 (capstone and writing-intensive course)
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 18 Credit Hours

Pre-Dental Concentration (PDEN)

- BIOL 312 - Cell Biology Credit Hours: 3
- BIOL 351 - Genetics Credit Hours: 3
- BIOL 352 - Genetics Laboratory Credit Hours: 1
- BIOL 355 - Microbiology Credit Hours: 3
- BIOL 357 - Microbiology Laboratory Credit Hours: 1
- BIOL 491 - Human Anatomy Credit Hours: 3
- ~~BIOL 492 - Physiology Credit Hours: 3.~~ Replace with BIOL 494-Human Physiology Credit Hours: 3
- BIOL 493 - Human Anatomy Laboratory Credit Hours: 1
- CHEM 221 - Organic Chemistry Laboratory I Credit Hours: 1
- CHEM 223 - Organic Chemistry I Credit Hours: 3
- CHEM 322 - Organic Chemistry Laboratory II Credit Hours: 1
- CHEM 324 - Organic Chemistry II Credit Hours: 3
- CHEM 453 - Biochemistry I: Foundations of Biochemistry Credit Hours: 3
- CHEM 456 - Biochemistry III: Metabolism Credit Hours: 2

Total: 31 Credit Hours

Advanced Biomedical Sciences Electives

Choose a minimum of 3 hours from the following courses:

- BIOL 452 - Virology Credit Hours: 3
- BIOL 454 - Immunology Credit Hours: 3
- BIOL 475 - Molecular Genetics Credit Hours: 3
- BIOL 480 - Histology Credit Hours: 3
- BIOL 484 - Developmental Biology Credit Hours: 3
- BIOL 495 - Physiology Laboratory Credit Hours: 1
- BIOL 498 - Cancer Biology Credit Hours: 3
- CHEM 356 - Analytical Chemistry II Credit Hours: 4
- CHEM 413 - Physical Chemistry/Life Sciences Credit Hours: 3
- CHEM 430 - Medicinal Chemistry Credit Hours: 3
- CHEM 454 - Biochemistry II: Gene Expression Credit Hours: 3
- CHEM 463 - Biochemistry Laboratory I Credit Hours: 1

Total: 3 Credit Hours

Advanced Biology & Chemistry Selections

Choose a minimum of 6 hours, not previously taken, from BIOL (300-499) or (CHEM 300-499).
Total: 6 Credit Hours

Experiential Learning

Students are required to complete an experiential learning component.
Choose one option from the list below:

- BIOL 399 - Biology Research Credit Hours: 1-3^
- CHEM 393 - Introduction to Research Credit Hours: 0-3^
- PHP 305 - Medical Missions Seminar Credit Hours: 1
- PHP 308 - Global Healthcare Credit Hours: 3 ^
- PHP 315 - Clinical Healthcare Internship Credit Hours: 1
- Other Study Abroad Experience^

^Hours fulfill either general education or major requirements and are not counted a second time for this requirement.
Total: 0-1 Credit Hours

Supplement for Major

Physics

- PHYS 110 - General Physics I Credit Hours: 3 *
- PHYS 111 - General Physics I Laboratory Credit Hours: 1
- PHYS 112 - General Physics II Credit Hours: 3
- PHYS 113 - General Physics II Laboratory Credit Hours: 1

Mathematics

- MATH 131 - Calculus for Application Credit Hours: 3 *
- *or*
- MATH 185 - Calculus I Credit Hours: 3 *
-

- MATH 123 - Elementary Statistics Credit Hours: 3
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 8 Credit Hours

Electives

Minimum - 7-8 Credit Hours
Total Major Hours: 74

BS: Biomedical Sciences (BMSC-PPA)

General Education Requirements

Please see the General Education section of this catalog.

Major Requirements

Biomedical Sciences

- BIOL 121 - Introductory Biology I Credit Hours: 3 *
- BIOL 122 - Introductory Biology I Laboratory Credit Hours: 1
- BIOL 123 - Introductory Biology II Credit Hours: 3
- BIOL 124 - Introductory Biology II Laboratory Credit Hours: 1
- CHEM 133 - General Chemistry I Credit Hours: 3
- CHEM 131 - General Chemistry Laboratory I Credit Hours: 1
- CHEM 134 - General Chemistry II Credit Hours: 3
- CHEM 132 - General Chemistry Laboratory II Credit Hours: 1
- PHP 201 - Introduction to Health Professions Seminar Credit Hours: 1
- PHP 301 - Health Professions Application Seminar Credit Hours: 1
- BIBP 352 - Biomedical Ethics Credit Hours: 3 *
-
- BIOL 497 - Seminar in Biology Credit Hours: 3 (capstone and writing-intensive course)
- *or*
- CHEM 423 - Chemistry and Biochemistry Seminar Credit Hours: 3 (capstone and writing-intensive course)
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 18 Credit Hours

Pre-PA Concentration (PPA)

- BIOL 312 - Cell Biology Credit Hours: 3
- BIOL 351 - Genetics Credit Hours: 3
- BIOL 352 - Genetics Laboratory Credit Hours: 1
- BIOL 355 - Microbiology Credit Hours: 3
- BIOL 357 - Microbiology Laboratory Credit Hours: 1
- BIOL 491 - Human Anatomy Credit Hours: 3
- ~~BIOL 492 - Physiology Credit Hours: 3.~~ Replace with BIOL 494-Human Physiology Credit Hours: 3
- BIOL 493 - Human Anatomy Laboratory Credit Hours: 1
- BIOL 495 - Physiology Laboratory Credit Hours: 1
- CHEM 221 - Organic Chemistry Laboratory I Credit Hours: 1
- CHEM 223 - Organic Chemistry I Credit Hours: 3
- CHEM 322 - Organic Chemistry Laboratory II Credit Hours: 1
- CHEM 324 - Organic Chemistry II Credit Hours: 3
- CHEM 453 - Biochemistry I: Foundations of Biochemistry Credit Hours: 3
- KINE 302 - Medical Terminology Credit Hours: 2
- PSYC 120 - Introduction to Psychology Credit Hours: 3 *
-
- PSYC 232 - Developmental Psychology Credit Hours: 3

- *or*
- PSYC 382 - Abnormal Psychology Credit Hours: 3
- *or*
- SOCI 111 - Introduction to Sociology Credit Hours: 3
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 35 Credit Hours

Advanced Biomedical Sciences Electives

Choose a minimum of 3 hours from the following courses:

- BIOL 452 - Virology Credit Hours: 3
- BIOL 454 - Immunology Credit Hours: 3
- BIOL 475 - Molecular Genetics Credit Hours: 3
- BIOL 480 - Histology Credit Hours: 3
- BIOL 484 - Developmental Biology Credit Hours: 3
- BIOL 498 - Cancer Biology Credit Hours: 3
- CHEM 356 - Analytical Chemistry II Credit Hours: 4
- CHEM 413 - Physical Chemistry/Life Sciences Credit Hours: 3
- CHEM 430 - Medicinal Chemistry Credit Hours: 3
- CHEM 454 - Biochemistry II: Gene Expression Credit Hours: 3
- CHEM 456 - Biochemistry III: Metabolism Credit Hours: 2
- CHEM 463 - Biochemistry Laboratory I Credit Hours: 1

Total: 3 Credit Hours

Advanced Biology & Chemistry Selections

Choose a minimum of 6 hours, not previously taken, from BIOL (300-499) or (CHEM 300-499).
Total: 6 Credit Hours

Experiential Learning

Students are required to complete an experiential learning component.
Choose one option from the list below:

- BIOL 399 - Biology Research Credit Hours: 1-3^
- CHEM 393 - Introduction to Research Credit Hours: 0-3^
- PHP 305 - Medical Missions Seminar Credit Hours: 1
- PHP 308 - Global Healthcare Credit Hours: 3 ^
- PHP 315 - Clinical Healthcare Internship Credit Hours: 1
- Other Study Abroad Experience^

^Hours fulfill either general education or major requirements and are not counted a second time for this requirement.
Total: 0-1 Credit Hours

Supplement for Major

Physics

- PHYS 110 - General Physics I Credit Hours: 3 *
- PHYS 111 - General Physics I Laboratory Credit Hours: 1

Mathematics

- MATH 131 - Calculus for Application Credit Hours: 3 *
- *or*
- MATH 185 - Calculus I Credit Hours: 3 *
-
- MATH 123 - Elementary Statistics Credit Hours: 3
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 4 Credit Hours

Electives

Minimum - 7-8 Credit Hours

Total Major Hours: 74

BS: Biomedical Sciences (BMSC-PPO)

General Education Requirements

Please see the General Education section of this catalog.

Major Requirements

Biomedical Sciences

- BIOL 121 - Introductory Biology I Credit Hours: 3 *
- BIOL 122 - Introductory Biology I Laboratory Credit Hours: 1
- BIOL 123 - Introductory Biology II Credit Hours: 3
- BIOL 124 - Introductory Biology II Laboratory Credit Hours: 1
- CHEM 133 - General Chemistry I Credit Hours: 3
- CHEM 131 - General Chemistry Laboratory I Credit Hours: 1
- CHEM 134 - General Chemistry II Credit Hours: 3
- CHEM 132 - General Chemistry Laboratory II Credit Hours: 1
- PHP 201 - Introduction to Health Professions Seminar Credit Hours: 1
- PHP 301 - Health Professions Application Seminar Credit Hours: 1
- BIBP 352 - Biomedical Ethics Credit Hours: 3 *
-
- BIOL 497 - Seminar in Biology Credit Hours: 3 (capstone and writing-intensive course)
- *or*
- CHEM 423 - Chemistry and Biochemistry Seminar Credit Hours: 3 (capstone and writing-intensive course)
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 18 Credit Hours

Pre-Pharmacy/Optometry Concentration (PPO)

- BIOL 312 - Cell Biology Credit Hours: 3
- BIOL 351 - Genetics Credit Hours: 3
- BIOL 352 - Genetics Laboratory Credit Hours: 1
- BIOL 355 - Microbiology Credit Hours: 3
- BIOL 357 - Microbiology Laboratory Credit Hours: 1
- BIOL 491 - Human Anatomy Credit Hours: 3
- ~~BIOL 492 - Physiology Credit Hours: 3.~~ Replace with BIOL 494-Human Physiology Credit Hours: 3
- BIOL 493 - Human Anatomy Laboratory Credit Hours: 1
- BIOL 495 - Physiology Laboratory Credit Hours: 1
- CHEM 221 - Organic Chemistry Laboratory I Credit Hours: 1
- CHEM 223 - Organic Chemistry I Credit Hours: 3
- CHEM 322 - Organic Chemistry Laboratory II Credit Hours: 1
- CHEM 324 - Organic Chemistry II Credit Hours: 3
- CHEM 453 - Biochemistry I: Foundations of Biochemistry Credit Hours: 3

Total: 30 Credit Hours

Advanced Biomedical Sciences Electives

Choose a minimum of 3 hours from the following courses:

- BIOL 452 - Virology Credit Hours: 3
- BIOL 454 - Immunology Credit Hours: 3
- BIOL 475 - Molecular Genetics Credit Hours: 3
- BIOL 480 - Histology Credit Hours: 3
- BIOL 484 - Developmental Biology Credit Hours: 3
- BIOL 498 - Cancer Biology Credit Hours: 3
- CHEM 356 - Analytical Chemistry II Credit Hours: 4
- CHEM 413 - Physical Chemistry/Life Sciences Credit Hours: 3
- CHEM 430 - Medicinal Chemistry Credit Hours: 3
- CHEM 454 - Biochemistry II: Gene Expression Credit Hours: 3
- CHEM 456 - Biochemistry III: Metabolism Credit Hours: 2
- CHEM 463 - Biochemistry Laboratory I Credit Hours: 1

Total: 3 Credit Hours

Advanced Biology & Chemistry Selections

Choose a minimum of 6 hours, not previously taken, from BIOL (300-499) or (CHEM 300-499).
Total: 6 Credit Hours

Experiential Learning

Students are required to complete an experiential learning component.
Choose one option from the list below:

- BIOL 399 - Biology Research Credit Hours: 1-3^
- CHEM 393 - Introduction to Research Credit Hours: 0-3^
- PHP 305 - Medical Missions Seminar Credit Hours: 1
- PHP 308 - Global Healthcare Credit Hours: 3 ^
- PHP 315 - Clinical Healthcare Internship Credit Hours: 1
- Other Study Abroad Experience^

^Hours fulfill either general education or major requirements and are not counted a second time for this requirement.
Total: 0-1 Credit Hours

Supplement for Major

Physics

- PHYS 110 - General Physics I Credit Hours: 3 *
- PHYS 111 - General Physics I Laboratory Credit Hours: 1
- PHYS 112 - General Physics II Credit Hours: 3
- PHYS 113 - General Physics II Laboratory Credit Hours: 1

Mathematics

- MATH 185 - Calculus I Credit Hours: 3 *
- MATH 123 - Elementary Statistics Credit Hours: 3
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 8 Credit Hours

Electives

Minimum - 8-9 Credit Hours
Total Major Hours: 74
