

2 Year Program Review (CE Programs)

Education Code section 78016 requires that colleges review the effectiveness of CE programs every two years. In order to meet this requirement, this form must be completed every two years on a rotational basis determined by the Curriculum Committee. Please discuss as a department, fill out the form, obtain chair and dean signatures, and submit to Scheduling Center (centersh@butte.edu) for approval by the Technical Review Committee.

Resources:

- Bureau of Labor Statistics (National): <http://www.onetonline.org>
- COE Cyber Security: <https://coecc.net/>
- EDD Labor Market Data (State): www.labormarketinfo.edd.ca.gov
 - LMI by customer, LMI by geography, LMI by industries and occupations

Program Name: Early Childhood Education

Describe how your program:

1. Continues to meet a documented labor market demand (include relevant labor market data)

The Child Development and Education (CDE) Department's Early Childhood Education programs continue to meet documented labor market demand within the Butte-Glenn County area as well as in the broader North Far North region, where projected openings in early childhood occupations remain strong.

We sourced labor market projections from the California Employment Development Department (EDD) Labor Market Information Division and the North Far North regional occupational data. Projected annual openings include 542 positions for childcare workers, 150 positions for preschool teachers (except Special Education), and 15 positions for education and childcare administrators in preschool and daycare settings. Median hourly

2. Does not represent unnecessary duplication of other manpower training programs in the college's service area (List similar programs by name, or N/A, for each community college in our region: College of the Redwoods, College of the Siskiyous, Feather River College, Lake Tahoe Community College, Lassen Community College, Mendocino College, and Shasta College)

Colleges within the North Far North region that offer related programs include Feather River College, Lassen Community College, Mendocino College, College of the Redwoods, Shasta College, and College of the Siskiyous. These institutions offer certificates, associate degrees, and associate degrees for transfer in early childhood education or child development.

While similar programs exist, duplication is not unnecessary given the region's geographic size and rural nature and the documented workforce demand for early childhood professionals. Students often require local and

3. Is of demonstrated effectiveness as measured by the employment and completion success of its students (include completion and employment data for your program)

The CDE department's ECE program as a whole demonstrates effectiveness through consistent enrollment demand, strong fill rates, improved student success, and sustained degree and certificate completion across the review period of fall 2023 through summer 2025.

In fall 2023, the program offered 24 sections with a 70.2 percent fill rate. In fall 2024, the program offered 27

Department Chair signature: Shawn Adrián Choflá
(Your signature certifies that all faculty members in the program have participated in this review)

Dean signature: Arisa Ward

Curriculum Committee Chair: Patrick McDougall

Date Approved: 3/26/2026

Pedagogical Cap Considerations

BCEA Contract Article 7.1: The District shall have a WSCH/FTE target of 530
(A WSCH target of 530 translates to an average per section student cap of 35)

Without a preponderance of evidence that proves otherwise (such as statistical analysis), ped caps will remain the same. (Curriculum Decision Log 11/5/2012). Complete the yellow highlighted boxes.

Course	# of Sections per Semester	Current Ped Cap	Proposed Ped Cap	Change in Total # of Students	# of New Sections to return to original students
NSG 5	4	12	48	0	4 sections to 1 section
NSG 6	4	12	48	0	4 sections to 1 section
NSG 11	4	12	48	0	4 sections to 1 section
NSG 12	4	12	48	0	4 sections to 1 section
NSG 17	4	12	48	0	4 sections to 1 section
NSG 21	2	15	30	0	2 sections to 1 section
NSG 31	2	15	30	0	2 sections to 1 section
NSG 41	2	15	30	0	2 sections to 1 section
NSG 56	4	12	48	0	4 sections to 1 section
NSG 66	4	12	48	0	4 sections to 1 section
NSG 68	4	15	60	0	4 sections to 1 section
NSG 78	4	15	60	0	4 sections to 1 section

Answer the following questions that support reducing the ped cap for your proposed course(s)

A: Safety and Compliance Factors Influencing the Enrollment Cap

- 1 Health or safety reasons that the class should be capped at a certain number (example: safety considerations in a welding class).
 - Yes
 - No
 - If "Yes", explain: Actual student:teacher ratios will remain the same as now, it will just be scheduled as one section.

- 2 Standards outside of the college calling for specific student-teacher ratios (example: nursing, police, fire).
 - Yes
 - No
 - If "Yes", explain: Actual student:teacher ratios will remain the same as now, it will just be scheduled as one section.

- 3 External accreditor or advisory panel recommendation on class size.
 - Yes
 - No
 - If "Yes", explain: Actual student:teacher ratios will remain the same as now, it will just be scheduled as one section.

- 4 Class maximum has already been determined through negotiations.

Yes

No

If "Yes", explain:

If you entered "Yes" to any of the above, **STOP HERE. If you answered "No" to all of the elements above, complete Section B.**

B: Instructional and Academic Factors Influencing the Enrollment Cap

1 Total amount of graded work required per week (in pages).

15+

13-15

10-12

6-9

0-5

Answer Yes, No or enter rank and provide an explanation

2 Standards outside of the college calling for specific student-teacher ratios (example: nursing, police, fire).

Substantial

Above Average

Average

Below Average

Minimal

Explain:

3 Discussion/group participation is required and graded.

Yes

No

If "Yes", explain:

4 Every student is evaluated individually on a set of skills (e.g., technical competencies, presentation skills, composition).

Yes

No

If "Yes", explain:

5 Course is designed for a special population of students who require a smaller class size to achieve the goals and intent of the course.

Yes

No

If "Yes", explain:

6 Course is designed for underprepared students who may need additional attention or assistance.

Yes

No

If "Yes", explain:

7 Course outcomes anticipate demand of more higher order, complex thinking skills from students who may therefore need additional guidance from the instructor.

Yes

No

If "Yes", explain:

8 Additional Considerations:

9 Please include comparable course ped caps from similar colleges, as available (attach).

Completed by: Laurie Bowles

Butte College
AS-T Degree in Environmental Science

Narrative

1. Statement of Program Goals and Objectives

The Associate of Science for Transfer (AS-T) in Environmental Science creates a transfer pathway for students who plan to complete a bachelor's of science in Environmental Science at a California State University. With the completion of this degree, students will possess foundational knowledge and skills that comprise the core content of the first two years of many four-year programs in Environmental Science.

A student who completes the AS-T in Environmental Science will be able to:

1. Explain fundamental scientific principles underlying Earth's geological, biological, chemical, and ecological systems.
2. Analyze environmental problems using scientific methods, quantitative reasoning, and data interpretation.
3. Evaluate human impacts on natural systems and propose evidence-based, sustainable solutions.
4. Demonstrate proficiency in scientific inquiry and laboratory techniques used to do research and collect data for environmental monitoring and assessment.
5. Communicate scientific information effectively in written, oral, and graphical formats to diverse audiences.
6. Apply interdisciplinary perspectives (e.g., natural sciences, policy, ethics) to environmental decision-making and resource management.

2. Catalog Description and Program Level Outcomes

The Associate of Science for Transfer in Environmental Science is intended for students who plan to complete a bachelor's degree in Environmental Science at a CSU (California State University) campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

The AS-T in Environmental Science requires students to meet both of the following requirements:

- (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

- (A) The California General Education Transfer Curriculum (Cal-GETC), or a prior GE transfer pattern for those with catalog rights to the Intersegmental GE Transfer Curriculum (IGETC) or the California State University GE-Breadth Requirements (CSU GE-Breadth).

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0.

Students must earn a "C" (or "P") or better in all courses required for the major or area of emphasis.

Upon successful completion of the program, the student will be able to:

1. Explain fundamental scientific principles underlying Earth's geological, biological, chemical, and ecological systems.
2. Analyze environmental problems using scientific methods, quantitative reasoning, and data interpretation.
3. Evaluate human impacts on natural systems and propose evidence-based, sustainable solutions.
4. Demonstrate proficiency in scientific inquiry and laboratory techniques used to do research and collect data for environmental monitoring and assessment.
5. Communicate scientific information effectively in written, oral, and graphical formats to diverse audiences.
6. Apply interdisciplinary perspectives (e.g., natural sciences, policy, ethics) to environmental decision-making and resource management.

3. Major Requirements

Requirements	Title	Units	Sequence (Year 1, Spring)
BIOL 41	Cell and Molecular Biology	5	Year 2, Spring
CHEM 1	General Chemistry I	5	Year 1, Spring
CHEM 2	General Chemistry II	5	Year 2, Fall
PSC 10	Introduction to Environmental Science	4	Year 1, Fall
GEOL 32 Or GEOG 2 and GEOG 3	Physical Geology with Lab Physical Geography Physical Geography Lab	4 3 1	Year 2, Spring
STAT C1000 or STAT C1000E	Introduction to Statistics Introduction to Statistics	4	Year 1, Spring
MATH C2210 Or MATH C2210E Or MATH 13 Or MATH 13s	Calculus I: Early Transcendentals Calculus I: Early Transcendentals - Embedded Support Survey of Calculus Survey of Calculus with Support	5 5 4 4	Year 1, Fall
ECON C2001	Principles of Microeconomics	3	Year 2, Spring
PHYS 21 And PHYS 22 or	College Physics I College Physics II	4 4	Year 1, Spring And Year 2, Fall

PHYS 41 and PHYS 42	Physics for Scientists and Engineers I	4	
	Physics for Scientists and Engineers II	4	

	Required Major Total	42-43
Total units that may be double counted (transfer GE area limits must not be exceeded)		13
	General Education Cal-GETC Units	34
	Electives Units	-4 to -3
	Total Maximum Degree Units	63 to 64

Proposed Sequence	Units
Year 1, Fall	15-16
Year 1, Spring	16
Year 2, Fall	15
Year 2, Spring	18
Total Units Per Term	64-65

4. Master Planning

The AS Degree in Environmental Science has been offered since 2003. We were not able to adopt the TMC for the ADT in Environmental Science historically because it could not be completed within 60 units. A new template was published in February 2026 that allows this degree to go up to 66 units for completion. We are now permitted to offer this transfer degree for students.

5. Enrollment and Completer Projections

Fill in specific academic years:		2023-24		2024-25	
CB01: Course Department Number	CB02: Course Title	Annual # Sections	Annual Enrollment Total	Annual # Sections	Annual Enrollment Total
BIOL 41	Cell and Molecular Biology	2	50	3	57
CHEM 1	General Chemistry I	12	286	13	306
CHEM 2	General Chemistry II	4	85	5	90
PSC 10	Introduction to Environmental Science	4	85	4	92
GEOL 32	Physical Geology with Lab	5	85	4	95
GEOG 2	Physical Geography	7	260	8	300
GEOG 3	Physical Geography Lab	4	96	4	96
STAT C1000	Introduction to Statistics	58	1670	67	2050
STAT C1000E	Introduction to Statistics	8	173	10	197
MATH C2210	Calculus I: Early Transcendentals	12	341	15	413

MATH C2210E	Calculus I: Early Transcendentals – Embedded Support	0	0	0	0
MATH 13	Survey of Calculus	1	13	0	0
MATH 13s	Survey of Calculus with Support	1	9	2	24
ECON C2001	Principles of Microeconomics	18	571	17	505
PHYS 21	College Physics I	6	128	6	138
PHYS 22	College Physics II	2	29	2	18
PHYS 41	Physics for Scientists and Engineers I	6	127	7	173
PHYS 42	Physics for Scientists and Engineers II	4	84	4	93

Estimated Completers: 5

6. Place of Program in Curriculum/Similar Programs

This program belongs to the Physical Sciences department. There is currently a local A.S. in Environmental Science offered.

7. Similar Programs at Other Colleges in Service Area:

There are currently no other California Community Colleges in our service area with the AS-T in Environmental Science.

Program Map

AS-T Environmental Science

Program					Total Units	64-65
Course	Course Title	Units	Cal-GETC Area	Prerequisite	Notes or Corequisite	
Term 1, Fall					Term Units	15-16
Area 1A	Choice	4	1A	None		
PSC 10	Intro to Environmental Science	4	5	None		
MATH C2210/E OR MATH 13/13s	Calculus I: Early Transcendentals/-Embedded Support Survey of Calculus/with support	4-5	2	None	Department recommends MATH C2210/E.	
Area 6	Choice	3	6	None		
Term 2, Spring					Term Units	16
CHEM 1	General Chemistry I	5	5	Chem 11 or 51 or 1 year High School Chemistry + Intermediate Algebra or Equivalent		
STAT C1000/E	Introduction to Statistics	4	2	None		
Area 1B	Choice	3	1B	ENGL C1000/E		
PHYS 21 or PHYS 41	College Physics I Physics for Scientists and Engineers I	4	5A/5C	MATH 20, 28, 28s or high school trig Math 30 or 30s		
Term 3, Fall					Term Units	15
CHEM 2	General Chemistry II	5	5A/5C	CHEM 1		
Area 3A	Choice	3	3A			
Area 1C	Choice	3	1C			
PHYS 22 or PHYS 42	College Physics II Physics for Scientists and Engineers II	4	5A/5C	PHYS 21 MATH 31 + PHYS 41		
Term 4, Spring					Term Units	18
BIOL 41	Cell and Molecular Biology	5	5B/5C	CHEM 1		
Area 3B	Choice	3	3B	None		
ECON C2001	Principles of Microeconomics	3	4			
Area 4, D2	Choice	3	4			
GEOL 32 or GEOG 2/3	Physical Geology with Lab or Physical Geography with Lab	4	5A/5C			

TOP Code: 0301.00
 CIP Code: 03.0104
 CCC Major or Area of Emphasis: Environmental Science
 CSU Majors deemed similar: Environmental Science
 Degree Type: AS-T
 Total Minimum Semester Units for Major or Area of Emphasis: 37-39

In the four columns to the right under the **College Program Requirements**, enter the college's course identifier, title and the number of units comparable to the course indicated for the form. If the course may be double-counted with Cal-GETC, enter the GE Area to which the course is articulated. To review the GE Areas and associated unit requirements, please go to [Chancellor's Office Academic Affairs page](#) or the [ASSIST website](#)

The units indicated in the template are the **minimum** semester units required for the prescribed course or list.

- All courses must be CSU transferable.
- All courses with an identified **C-ID** Descriptor must be submitted to C-ID **prior** to submission of the Associate Degree for Transfer (ADT) proposal to the Chancellor's Office.
- Where no C-ID Descriptor is indicated, discipline faculty should compare their existing course to the example course(s) provided in the form at the [C-ID website](#)

Attach the appropriate **ASSIST** documentation as follows:

- Articulation Agreement by Major (AAM) demonstrating lower division preparation in the major at a CSU;
- CSU Baccalaureate Level Course List by Department (BCT) for the transfer courses; and/or,
- Cal-GETC Certification Course List by Area (GECC).
- The acronyms **AAM**, **BCT**, and **GECC** will appear in C-ID Descriptor column directly next to the course to indicate which report will need to be attached to the proposal to support the course's inclusion in the transfer degree.

Associate in Science in for Environmental Science 2.0 Transfer Degree		College Name: Butte College			
TRANSFER MODEL CURRICULUM (TMC)		COLLEGE PROGRAM REQUIREMENTS			
Course Title (units)	C-ID Descriptor	Course ID	Course Title	Units	Cal-GETC
REQUIRED CORE: choose Option 1 or Option 2 and all listed below (37-39 units)					
Option 1 General Chemistry for Science Majors I, with Lab (5) and Biology Sequence for Majors (8)	CHEM 110 BIOL 135S				
OR Cell and Molecular Biology (4) and Organismal Biology (4)	BIOL 190 BIOL 140				
OR Cell and Molecular Biology (4) and Zoology/Animal Diversity and Evolution (4)	BIOL 190 BIOL 150				
OR Cell and Molecular Biology (4) and Botany/Plant Diversity and Ecology(4)	BIOL 190 BIOL 155				

TRANSFER MODEL CURRICULUM (TMC)		COLLEGE PROGRAM REQUIREMENTS			
Course Title (units)	C-ID Descriptor	Course ID	Course Title	Units	Cal-GETC
Option 2 Cell and Molecular Biology (4) and General Chemistry for Science Majors Sequence A (10)	BIOL 190 CHEM 120S	BIOL 41 and CHEM 1 and CHEM 2	Cell and Molecular Biology General Chemistry I General Chemistry II	5 5 5	Area 5b and 5c Area 5a and 5c Area 5a and 5c
Introduction to Environmental Science (3)	ENVS 100	PSC 10	Introduction to Environmental Science	4	Area 5a and 5c
Physical Geology (3) and Physical Geology Lab (1) OR Physical Geology with Lab (4) OR Introduction to Physical Geography (3) and Physical Geography Laboratory (1) OR Introduction to Physical Geography, with Lab (4)	GEOL 100 GEOL 100L GEOL 101 GEOG 110 GEOG 111 GEOG 115	GEOL 32 or GEOG 2 and GEOG 3	Physical Geology with Lab Physical Geography Physical Geography Lab	4 3 1	Area 5a and 5c Area 5a Area 5c
Introduction to Statistics (3)	MATH 110	STAT C1000 or STAT C1000E	Introduction to Statistics Introduction to Statistics	4 4	Area 2 Area 2

TRANSFER MODEL CURRICULUM (TMC)		COLLEGE PROGRAM REQUIREMENTS				
Course Title (units)	C-ID Descriptor	Course ID	Course Title	Units	Cal-GETC	
Single Variable Calculus I – Early Transcendentals (4) OR Single Variable Calculus I – Late Transcendentals (4) OR Business Calculus (3)	MATH 210 MATH 211 MATH 140	MATH C2210	Calculus I: Early Transcendentals	5	Area 2	
		or MATH C2210E	Calculus I: Early Transcendentals - Embedded Support	4	Area 2	
		or MATH 13	Survey of Calculus	4	Area 2	
		or MATH 13s	Survey of Calculus with Support	4	Area 2	
Principles of Microeconomics (3)	ECON 201	ECON C2001	Principles of Microeconomics	3	Area 4	
Algebra/Trigonometry-Based Physics AB (8) OR Calculus-Based Physics for Scientists and Engineers: A (4) and Calculus-Based Physics for Scientists and Engineers: B (4)	PHYS 100S PHYS 205 PHYS 210	PHYS 21	College Physics I	4	Area 5a and 5c	
		and PHYS 22	College Physics II	4	Area 5a and 5c	
		or PHYS 41 and	Physics for Scientists and Engineers I	4	Area 5a and 5c	
		PHYS 42	Physics for Scientists and Engineers II	4	Area 5a and 5c	
Total Units for the Major:	37-39	Total Units for the Major:		42-43		
		Total Units that may be double-counted <i>(The transfer GE Area limits must <u>not</u> be exceeded)</i>			13	
		General Education (Cal-GETC) Units			34	
		Elective (CSU Transferable) Units			-4 to -3	
		Total Degree Units (maximum)			60-66	

Notes and History

Recommended Preparation: It is recommended that students pursue coursework in GIS / Geospatial technologies as well as increase their computer literacy and data analysis skills.

Strongly recommended that sequential coursework be completed at a single institution.

Advisory Note: It is strongly recommended that students and counselors at community colleges discuss the biology and chemistry course options that are part of major preparation at a target CSU campus and encourage students to follow the track that most closely aligns with their target CSU campus.

Note: It is possible for colleges to create an ADT at 60 units. Many colleges have calculus, statistics, and physics courses with more units than the approved C-ID minimums and courses with additional units in these areas will cause degrees to exceed the 60-unit threshold. To increase the number of colleges capable of offering this degree, this TMC has been approved to use up to 66 units.

***Please note that colleges are permitted to use up to six additional units, but no additional local requirements can be added to this degree. Students are only required to complete the full Cal-GETC pattern and the core courses listed in the TMC.**

AA Degree in **Physical Education Kinesiology**: Exercise Physiology

About the Program

Program Goal: Local
GE Pattern(s): Butte Local, Cal-GETC
Program Code: 11126.01AA

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org

Program Learning Outcome(s):

Upon successful completion of the program, the student will be able to:

1. Identify and describe major concepts, theoretical principles, history and evolution, and current trends in kinesiology.
2. Describe physical activity as it relates to physiological responses and adaptations to exercise.
3. Recognize anatomical impacts on exercise related to age, gender, individual goals, and special needs
4. Demonstrate and apply scientific principles to movement in the specific areas of fitness, aquatics, combatives, individual sport and team sport.
5. Develop and modify proper safety techniques for a variety of fitness programs.
 1. Critically analyze and accurately express an understanding of scientific work in the context of the scientific method.
 2. Demonstrate academic skills needed for success in biology after transfer.
 3. Apply principles of kinesiology and biomechanics to analyze human movement and athletic performance.
 4. Correctly employ scientific techniques and correctly use scientific equipment.

Required courses:

BIOL 20	Human Anatomy	31.00-32.00
BIOL 21	Human Physiology	4.00
KIN 1	Introduction to Kinesiology	4.00
PHYS 21	College Physics I	3.00
		4.00
Select one:		
STAT C1000	Introduction to Statistics	4.00
STAT C1000E	Introduction to Statistics	4.00

Select one group:

CHEM 1	General Chemistry I	9.00-10.00
CHEM 2	General Chemistry II	5.00

OR

CHEM 51	Elementary Inorganic Chemistry	5.00
CHEM 52	Elementary Organic and Biochemistry	4.00

Complete 2 KIN Activity courses excluding KIN 51:

3.00

Dance	KIN 38	Ballroom Dance I	1.50
Dance	KIN 39	Ballroom Dance II	1.50
Dance	KIN 40	Jazz Dance I	1.50
Dance	KIN 44	Jazz Dance II	1.50
Fitness	KIN 23	Weight Training I	1.50
Fitness	KIN 24	Weight Training II	1.50
Fitness	KIN 42	Yoga I	1.50
Fitness	KIN 43	Yoga II	1.50
Fitness	KIN 45	Pilates	1.50
Fitness	KIN 53	Jogging/Running for Fitness	1.50
Individual Sport	KIN 57	Archery	1.50
Individual Sport	KIN 58	Badminton	1.50
Individual Sport	KIN 59	Pickleball	1.50
Individual Sport	KIN 60	Bowling	1.50
Individual Sport	KIN 61	Golf	1.50
Individual Sport	KIN 79	Pickleball II	1.50
Team Sport	KIN 64	Baseball	1.50
Team Sport	KIN 65	Soccer	1.50
Team Sport	KIN 67	Softball	1.50
Team Sport	KIN 68	Volleyball I	1.50
Team Sport	KIN 69	Volleyball II	1.50
Team Sport	KIN 70	Basketball I	1.50
Team Spor	KIN 71	Basketball II	1.50
Combative	KIN 73	Self Defense	1.50

Combative	KIN 74	Boxing	1.50
Combative	KIN 77	Karate	1.50

Total: 31.00-32.00

Suggested Program Map (Butte GE)

Required courses:

Units: 60.00-63.00

Term 1

16.00-17.00

KIN 1 Introduction to Kinesiology

3.00

Select one: Meets Ar. a 2

STAT C1000 Introduction to Statistics

4.00

STAT C1000E Introduction to Statistics

4.00

Area 1A Choice (See GE Guide)

3.00-4.00

Area 6 Choice (See GE Guide)

3.00

Elective (any course numbered 1-99 or C1000-C1999)

3.00

Only necessary if the 60 units needed to graduate have not been completed. Consider taking a Cal-GETC General Education course. Visit www.assist.org to see options.

Term 2

13.00-14.00

BIOL 20 Human Anatomy

4.00

Meets Area 5B/5C

Area 3 Choice (See GE Guide)

3.00-4.00

Area 4 Choice (See GE Guide)

3.00

Department recommends PSY 6 or PSYC C1000.

Elective (any course numbered 1-99 or C1000-C1999)

3.00

Only necessary if the 60 units needed to graduate have not been completed. Consider taking a Cal-GETC General Education course. Visit www.assist.org to see options. Department recommends ENGL C1001.

Term 3

15.00

PHYS 21	College Physics I	4.00
Prerequisite: MATH 20 or high school trigonometry. Meets Area 5A/5C.		
<i>Select one: Meets Area 5A/5C</i>		
CHEM 1	General Chemistry I	5.00
Prerequisite: CHEM 11 or CHEM 51 or one year of high school Chemistry; and Intermediate Algebra or equivalent		
CHEM 51	Elementary Inorganic Chemistry	5.00
Complete two KIN Activity courses excluding KIN 51 (See GE Guide)		
Meets Graduation Requirement.		
Area 1B/C Choice (See GE Guide)		
		3.00
<i>Term 4</i>		
		16.00-17.00
BIOL 21	Human Physiology	4.00
Meets Area 5B/5C.		
<i>Select one: Meets Area 5A/5C</i>		
		4.00-5.00
CHEM 2	General Chemistry II	5.00
Select if CHEM 1 was taken in Term 3.		
CHEM 52	Elementary Organic and Biochemistry	4.00
Select if CHEM 51 was taken in Term 3.		
Elective (Any course numbered 1-99 or C1000-C1999)		
		8.00
Only necessary if the 60 units needed to graduate have not been completed. Consider taking a Cal-GETC General Education course. Visit www.assist.org to see options.		

Total: 60.00-63.00

Butte College
AS Degree in Kinesiology: Exercise Physiology

Narrative

1. Statement of Program Goals and Objectives

The AS in Kinesiology with emphasis in Exercise Physiology is designed to provide students with a strong foundation in the scientific study of human movement, the physiological responses to exercise, and the application of evidence based- practices to promote health, performance, and overall well-being. The program prepares students for transfer to four-year institutions, entry level- fitness and health-related careers, and further study in fields such as athletic training, physical therapy, strength and conditioning, and exercise science.

2. Catalog Description and Program Level Outcomes

This program meets the lower division major preparation for a similar major at CSU, Chico. Visit website for details www.assist.org. This major also serves as a basis for pre-medicine, pre-physical therapy and pre-athletic training students.

Upon successful completion of the program, the student will be able to:

1. Critically analyze and accurately express an understanding of scientific work in the context of the scientific method.
2. Demonstrate academic skills needed for success in biology after transfer.
3. Apply principles of kinesiology and biomechanics to analyze human movement and athletic performance.
4. Correctly employ scientific techniques and correctly use scientific equipment.

3. Program Requirements

Requirements	Dept Name/#	Title	Units	Sequence (Year 1, Fall)
Required Core	KIN 1	Intro to Kinesiology	3	Year 1, Fall
	BIOL 20	Human Anatomy	4	Year 1, Spring
	BIOL 21	Human Physiology	4	Year 2, Fall
	PHYS 21	College Physics	4	Year 2, Spring
Select One	STAT C1000	Introduction to Statistics	4	Year 1, Spring
	STAT C1000E	Introduction to Statistics	4	Year 1, Spring
Select One Group	CHEM 1	General Chemistry	5	Year 1, Spring
	CHEM 2	General Chemistry II	5	Year 2, Fall
Or				
	CHEM 51	Elementary Inorganic Chemistry	5	Year 1, Spring
	CHEM 52	Elementary Organic and Biochemistry	4	Year 2, Fall

Complete 2 KIN Activity Courses (excluding KIN 51)		Select one course from two of following categories: Combative/Dance/ Fitness/Individual Sport/Team Sport		
Dance	KIN 38	Ballroom Dance I	1.50	Year 2, Fall
Dance	KIN 39	Ballroom Dance II	1.50	Year 2, Spring
Dance	KIN 40	Jazz Dance I	1.50	Year 2, Fall
Dance	KIN 44	Jazz Dance II	1.50	Year 2, Spring
Fitness	KIN 23	Weight Training I	1.50	Year 1, Fall
Fitness	KIN 24	Weight Training II	1.50	Year 1, Spring
Fitness	KIN 42	Yoga I	1.50	Year 1, Fall
Fitness	KIN 43	Yoga II	1.50	Year 1, Spring
Fitness	KIN 45	Pilates	1.50	Year 1, Fall
Fitness	KIN 53	Jogging/Running for Fitness	1.50	Year 1, Fall
Individual Sport	KIN 57	Archery	1.50	Year 2, Spring
Individual Sport	KIN 58	Badminton	1.50	Year 2, Spring
Individual Sport	KIN 59	Pickleball	1.50	Year 2, Spring
Individual Sport	KIN 60	Bowling	1.50	Year 2, Spring
Individual Sport	KIN 61	Golf	1.50	Year 1, Fall
Individual Sport	KIN 79	Pickleball II	1.50	Year 1, Spring
Team Sport	KIN 64	Baseball	1.50	Year 2, Fall
Team Sport	KIN 65	Soccer	1.50	Year 2, Spring
Team Sport	KIN 67	Softball	1.50	Year 2, Fall
Team Sport	KIN 68	Volleyball I	1.50	Year 1, Fall
Team Sport	KIN 69	Volleyball II	1.50	Year 1, Spring
Team Sport	KIN 70	Basketball I	1.50	Year 1, Fall
Team Spor	KIN 71	Basketball II	1.50	Year 1, Spring
Combative	KIN 73	Self Defense	1.50	Year 2, Spring
Combative	KIN 74	Boxing	1.50	Year 2, Fall
Combative	KIN 77	Karate	1.50	Year 2, Fall
			Local	Cal-GETC
Required Major Total			31-32	31-32
GE Pattern			21	34
Double Count			6	10
Transferable Electives (to reach 60 units):			13-14	4-5
Degree Total Units:			60	60

Proposed Sequence	Units
Year 1, Fall	8.5
Year 1, Spring	9
Year 2, Fall	8-9
Year 2, Spring	5.5
Total Units	31-32

4. Master Planning

The Kinesiology program's have been established for decades. The department wants to develop consistency with the program and its majors, since degrees offered are offered in Kinesiology AA-T degree and AA degree. This degree was previously listed as AA Degree in Physical Education with emphasis in Exercise Physiology. This degree is designed with more of a scientific base for students pursuing pre-physical therapy, pre-med, sports medicine, or exercise physiology, hence the move to Assoc. Science degree. This program models the first two years of the Bachelor of Science degree in Exercise Physiology at California State University, Chico, so students will be prepared for proper transfer status.

5. Enrollment and Completer Projections

Fill in specific academic years:		<2023-24>		<2024-25>	
CB01: Course Department Number	CB02: Course Title	Annual # Sections	Annual Enrollment Total	Annual # Sections	Annual Enrollment Total
BIOL 20	Human Anatomy	38	964	36	920
BIOL 21	Human Physiology	12	288	14	324
CHEM 1	General Chemistry I	12	288	13	312
CHEM 2	General Chemistry II	4	96	5	120
CHEM 51	Elementary Inorganic Chemistry	16	384	23	542
CHEM 52	Elementary Organic and Biochemistry	2	48	2	48
KIN 1	Intro to Kinesiology	6	210	6	210
KIN 23	Weight Training I	18	630	18	630
KIN 24	Weight Training II	16	560	16	0
KIN 38	Ballroom Dance I	0	0	0	0
KIN 39	Ballroom Dance II	0	0	0	0
KIN 40	Jazz Dance I	1	35	1	30
KIN 42	Yoga I	2	70	3	105
KIN 43	Yoga II	2	70	3	0
KIN 44	Jazz Dance II	1	35	1	0
KIN 45	Pilates	3	105	3	105
KIN 53	Jogging/Running for Fitness	15	525	15	525
KIN 57	Archery	4	100	4	100
KIN 58	Badminton	2	60	2	60
KIN 59	Pickleball	New	New	2	60
KIN 60	Bowling	1	40	2	80
KIN 61	Golf	2	60	2	60
KIN 64	Baseball	1	35	1	35
KIN 65	Soccer	2	60	2	60
KIN 67	Softball	1	35	1	35
KIN 68	Volleyball I	2	60	3	90
KIN 69	Volleyball II	1	0	3	0
KIN 70	Basketball I	4	120	4	120
KIN 71	Basketball II	4	0	4	0
KIN 73	Self Defense	1	30	1	30
KIN 74	Boxing	3	75	3	75

KIN 77	Karate	0	0	0	0
KIN 79	Pickleball II	New	New	New	New
PHYS 21	College Physics	6	144	6	144
STAT C1000	Introduction to Statistics	58	2005	65	2242
STAT C1000E	Introduction to Statistics with Support	8	190	6	150

Estimated Completers: **10**

6. Place of Program in Curriculum/Similar Programs

This program is hosted in the Health, Kinesiology, and Athletics department. There are currently two programs, including one AA-T degree and one local AA degree: these are movement studies based for pedagogy. The AS degree in Kinesiology: Exercise Physiology is more science based to meet the needs of those students transferring in this degree field.

7. Similar Programs at Other Colleges in Service Area

The only college that offers this degree or similar is Feather River College- offering an AS in Health and Exercise Science. California State University, Chico offers B.S. in Exercise Physiology within their Kinesiology department.

CURRICULUM COMMITTEE CHARTER

ARTICLE I: NAME

The name of this committee shall be the Curriculum Committee.

ARTICLE II: PURPOSE

This committee is responsible for the review and recommendation of curriculum within the District's local approval process and is a standing subcommittee of the Academic Senate. Its purview is limited to curriculum review and recommendation functions assigned by law, including those academic and professional matters relating to curriculum, degree and certificate requirements, grading policies, educational program development, standards or policies regarding student preparation and success as they are implemented through the curriculum process, the assignment of disciplines to courses, and other curricular matters delegated to it by Board Policy (BP) 4020, Administrative Procedure (AP) 4020, and the Academic Senate. The Committee does not exercise authority over matters assigned by law, District policy, or collective bargaining agreement to other governance, administrative, or labor processes.

ARTICLE III: AUTHORITY

This committee operates under authority established by:

- California Education Code §70901(b)(1)(E), which preserves the right of academic senates to assume primary responsibility for recommendations in the areas of curriculum and academic standards;
- Title 5, §§53200 – 53203, which identify curriculum as an academic and professional matter and require local governing boards to consult collegially with academic senates;
- Title 5, §§55001 – 55003, which require districts to establish curriculum committees by mutual agreement between administration and academic senates and assign curriculum committees a formal role in the review and recommendation of courses and programs;
- Title 5, §§ 55060 – 55062, which require district governing boards to adopt and maintain policies governing the associate degree and general education, establish criteria for courses used to implement those policies, and define the course and awarding requirements for associate degrees;
- Title 5, § 55070, which defines credit certificates, establishes unit thresholds for certificates of achievement, and provides that local curriculum committees define content and assessment standards for such certificates;
- Title 5, § 55100, which authorizes governing boards to approve credit courses pursuant to Title 5 and the Chancellor's Office Program and Course Approval Handbook, and requires annual certification of local compliance with credit-course approval requirements;
- District BP/AP 4020 Program, Curriculum, and Course Development, AP 4022 Course Approval, BP/AP 4025 Philosophy and Criteria for Associate Degree and General Education, AP 4080 Standards for Credit Hour Calculations and any other District policies and procedures governing curriculum development and review, course approval, and credit-hour compliance; and
- The Butte College Academic Senate.

The Committee's jurisdiction extends only to matters that are part of the District's curriculum approval process and does not extend to matters whose primary character is contractual, administrative, or operational.

ARTICLE IV: RESPONSIBILITIES

This committee will:

- Review and act on curricular matters pertaining to academic content, standards, and program quality including new courses and programs, modifications, discontinuances, prerequisites, advisories, general education determinations, delivery modalities, and other curriculum matters expressly delegated to it by the Academic Senate and consistent with law and District policy;
- Assure that curriculum proposals comply with applicable law, regulation, Chancellor's Office guidance, accreditation standards, and District policies and procedures;
- Recommend curriculum-related procedure changes to the Academic Senate for consideration through the District approval process;
- Support regular curriculum review cycles and continuous improvement consistent with District procedures, including review of career and technical education curriculum on accelerated timelines, when required;
- Promote appropriate faculty oversight, curriculum quality, and accessibility in the development and review of courses and programs; and
- Provide for and participate in orientation and periodic training of committee members in curricular matters.
- Other matters that fall outside the committee's curricular purview are referred to the appropriate body, consistent with applicable law, District policies, and collective bargaining agreements.

ARTICLE V: MEMBERSHIP

This committee will be chaired by the Curriculum Committee Chair, with the Vice President of the Academic Senate serving as vice chair. The Committee's composition shall be established by mutual agreement of the Academic Senate and administration, consistent with Title 5 §55001 and District policies and procedures, and shall include the positions identified in Administrative Procedure 4020. The specific voting and non-voting membership structure, appointment methods, terms, officer roles, and related operating provisions shall be stated in the committee bylaws. As a standing subcommittee of the Academic Senate, the committee's faculty appointments and leadership roles shall remain consistent with Title 5 §53203 and the Academic Senate bylaws.

ARTICLE VI: MEETINGS

The committee will meet regularly during the academic year in accordance with its bylaws and applicable Brown Act requirements. All final deliberation and action of the committee shall occur at properly noticed meetings.

ARTICLE VII: AMENDMENTS

Amendments to this charter may be proposed by any seated committee member but must be approved by two-thirds of the seated members exercising their right to vote. Moreover, amendments must be ratified by the Academic Senate and College Council in order to take

effect. Any amendment affecting the committee's composition or authority under Title 5 §55001 shall also require mutual agreement between the Academic Senate and the Superintendent/President before taking effect.

ARTICLE VIII: DISSOLUTION

The Curriculum Committee will remain active until dissolved by formal action of the District consistent with law, District policies, and the mutual-agreement requirement applicable to curriculum committees under Title 5 §55001. Upon dissolution, any duties, responsibilities, or authority assigned under this Charter (and the accompanying committee bylaws) shall revert to the Academic Senate, unless and until reassigned through lawful Senate action and consistent with applicable law, Board Policy, Administrative Procedure, and mutual agreement where required by Title 5 and consistent with any current collective bargaining agreements.



Butte-Glenn Community College District ADMINISTRATIVE PROCEDURE

AP 4020 – Program and Curriculum Development

Approved by Leadership: August 2014

Reference: Title 5 Sections 51021, 55000 et seq. and 55100 et seq.;
Accreditation Standards II.A

Program and curriculum development are academic and professional matters that are initiated by faculty within the departments and submitted through the approval process established by the Curriculum Committee under the jurisdiction of the Academic Senate. The Chief Instructional Officer provides administrative oversight for the process.

The Curriculum Committee approves all curriculum matters, including:

- New courses and programs
- Modifications to existing courses
- Appropriate requisites
- Modifications or restructuring of existing programs
- Deletion of courses and programs
- General education
- Modes of delivery
- Implementation of state regulations and guidelines
- Policy changes

The primary responsibility for the detailed evaluation and review of curricula is at the department level. The Curriculum Committee is responsible for approving all curricula proposed by the individual departments, assuring compliance with all Title 5 regulations.

The Curriculum Committee consists of the following positions:

- Curriculum Chair
- Chief Instructional Officer
- 2 Division Dean/Director Representatives
- 6 Full-Time Faculty
- 3 Associate Faculty
- Counseling Representative
- Articulation Officer
- Academic Senate Representative
- Library Representative
- Student Representative

Proposals originate in departments. It is the responsibility of the originator to complete the appropriate documents and submit them for review using CurricUNET.

Proposals follow the approval chain:

- Department Chair

- Distance Education Coordinator (if Distance Education proposal)
- Academic Senate (if discipline addition/change is required)
- Student Learning Outcomes Coordinator
- Division Dean
- Technical Review Team (Curriculum Chair, Articulation Officer, Curriculum Analyst)
- Curriculum Committee (2 readings)
- Chief Instructional Officer
- Board of Trustees
- Chancellor's office

Proposals are reviewed for the following criteria:

- Appropriateness to mission of the college
- Demonstrable need
- Resource feasibility
- Compliance with all applicable laws and regulations
- Quality
 - Grading policy
 - Units
 - Intensity and rigor
 - Requisites
 - Difficulty and level

Curriculum proposals are accepted year round. Deadlines are determined by the Technical Review team and posted on the curriculum website. Proposals and catalog changes that meet the deadlines and have obtained final approval are entered into the college database and reflected in the following academic year's college catalog.

An ongoing review of courses and programs is conducted to maintain compliance with internal and external policies. Courses are reviewed on a six-year rotational cycle and updated as needed. Career and Technical Education curriculum is updated on a two-year cycle.