

AS Degree in Automotive Technology

Contact Information:

Department Office: WM 105 or SC 115

Department Phone: (530) 893-7726

Department Contact: Craig Kielb, Chair (530) 892-3013

Counseling/ Advising: (530) 895-2378

Transfer Center: (530) 895-2264

About the Program:

Program Goal: CTE

GE Pattern(s): Butte Local

Program Code: 01323.01AS

~~The Butte College Automotive Technology program is an ASE/NATEF certified school and is designed to prepare students for employment as automotive technicians in both dealerships and independent garages. All automotive classes are offered at the Skyway Center in Chico. The Skyway Center is a modern facility and completely outfitted with the power and hand tools needed to hone the student's skills. The goal of the department is to train highly-skilled entry-level technicians with work habits that will make them successful. The Automotive Department has partnered with American Honda and Subaru. This allows for make specific training and certification via the PACT Program (Honda and Acura) and Subaru.~~

~~Automotive career opportunities are offered nationwide along with paid internships for Honda PACT students. Help with job placement is available for successful students. For Career information please refer to our website: www.butte.edu/departments/careertech/automotive~~

The Butte College Automotive Technology program is an ASE Education Foundation certified school and is designed to prepare students for employment as automotive technicians in dealerships, government, fleet, and independent service shops. All automotive classes are offered at the Skyway Center in Chico. The Skyway Center is a modern facility and completely outfitted with ASE required training aids and tooling needed to prepare the student for a successful automotive technician career. The goal of the department is to train highly-skilled entry-level technicians with work habits that will make them successful in their career.

Automotive career opportunities are offered nationwide. Help with job placement is available for successful students. For Career information please refer to our website: www.butte.edu/departments/careertech/automotive or contact the Automotive Department Chair.

Admission to the Program:

~~There is a limitation on enrollment into the Automotive Program. If you are interested in this program and would like to make an appointment to get on the Automotive waiting list, please refer to our website: www.butte.edu/departments/careertech/automotive/~~

~~From our greeting page follow the links:~~

~~"Get Started Today", or "Sign UP!"~~

~~Then click on "Sign up (click here)"~~

~~Fill out the information fields on the Program Tour Sign-Up sheet, and then click the "Send Form" button. You will receive an appointment confirmation within two to three weeks.~~

~~If you have any further questions, please contact the Automotive Department Chair (see www.butte.edu/departments/careertech/automotive and click on "Instructor Contact")~~

~~Prerequisite/Corequisite: Beginning in Fall 2024 students will be required to have completed or be concurrently enrolled in AUT 101 or equivalent.~~

Due to high interest, this program may have limited enrollment through a waitlist. If you are interested in this program and would like to register or get on the program waitlist, please refer to our website: www.butte.edu/departments/careertech/automotive/

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If you have any further questions, please contact the Automotive Department Chair (see www.butte.edu/departments/careertech/automotive and click on "Instructors")

Prerequisite/Corequisite: Beginning in Fall 2024 students will be required to have completed or be concurrently enrolled in AUT 101 or equivalent.

Program Learning Outcome(s):

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

1. Explain the principles of operation and maintenance required to repair all systems of the modern automobile.
2. Safely and correctly maintain, diagnose, and repair specific areas of the vehicle.

<i>Required courses:</i>		48.00
AUT 3	Specialized Automotive Electronics	6.00
AUT 6	Automotive Electrical Systems Lecture	2.00
AUT 7	Automotive Electrical Systems Lab	2.00
AUT 8	Auto Engines Lecture	3.00
AUT 9	Automotive Engines Lab	3.00
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	3.00
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	3.00
AUT 22	Automotive Heating and Air Conditioning Lecture	2.00
AUT 23	Automotive Heating and Air Conditioning Lab	2.00
AUT 30	Gas/Diesel Engine Performance Lecture	5.00
AUT 31	Gas/Diesel Engine Performance Lab	5.00
AUT 52	Automatic Transmissions/Transaxles Lecture	3.00
AUT 53	Automatic Transmissions/Transaxles Lab	3.00
AUT 56	Manual Transmissions/Drivetrains Lecture	2.00
AUT 57	Manual Transmissions/Drivetrains Lab	2.00
AUT 60	Hybrid and Alternative Fuel Technologies	2.00

Total: 48.00

Suggested Program Map (Butte GE)

Required courses:

Units: 71.00-77.00

Term 1

15.00-18.00

AUT 3	Specialized Automotive Electronics	6.00
Area 1A Choice (See GE Guide)		3.00-4.00
Area 2 Choice (See GE Guide)		3.00-5.00
Area 6 Choice (See GE Guide)		3.00
<i>Term 2</i>		20.00
AUT 6	Automotive Electrical Systems Lecture	2.00
AUT 7	Automotive Electrical Systems Lab	2.00
AUT 8	Auto Engines Lecture	3.00
AUT 9	Automotive Engines Lab	3.00
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	3.00
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	3.00
AUT 22	Automotive Heating and Air Conditioning Lecture	2.00
AUT 23	Automotive Heating and Air Conditioning Lab	2.00
<i>Term 3</i>		
AUT 30	Gas/Diesel Engine Performance Lecture	5.00
AUT 31	Gas/Diesel Engine Performance Lab	5.00
AUT 52	Automatic Transmissions/Transaxles Lecture	3.00
AUT 53	Automatic Transmissions/Transaxles Lab	3.00
AUT 56	Manual Transmissions/Drivetrains Lecture	2.00
AUT 57	Manual Transmissions/Drivetrains Lab	2.00
<i>Term 4</i>		16.00-19.00
AUT 60	Hybrid and Alternative Fuel Technologies	2.00
Area 1B Choice (See GE Guide)		3.00
Area 3 Choice (See GE Guide)		3.00-4.00
Area 4 Choice (See GE Guide)		3.00
Area 5 Choice (See GE Guide)		3.00-5.00
Graduation Requirement Choice (See GE Guide)		2.00

Total: 71.00-77.00

Term 1		15.00-18.00
AUT3	Specialized Automotive Electronics	6.00
GE	Area 1A choice (See GE Guide)	3.00-4.00
GE	Area 2 Choice (See GE Guide)	3.00-5.00
GE	Area 6 Choice (See GE Guide)	3.00
Term 2		16.00-17.00
AUT6	Automotive Electrical Systems Lecture	2.00
AUT7	Automotive Electrical Systems Lab	2.00
AUT20	Automotive Brakes/Suspension and Steering Lecture	3.00
AUT21	Automotive Brakes/Suspension and Steering Lab	3.00
GE	Area 1B Choice (See GE Guide)	3.00
GE	Area 3 Choice (See GE Guide)	3.00-4.00
Term 3		14.00
AUT8	Automotive Engines Lecture	3.00
AUT9	Automotive Engines lab	3.00
AUT22	Automotive Heating and Air Conditioning Lecture	2.00
AUT23	Automotive Heating and Air Conditioning Lab	3.00
AUT60	Hybrid and Alternative Fuel Technologies	2.00
GE	Graduation Requirement Choice (See GE Guide)	2.00
Term 4		13.00
AUT52	Automatic Transmissions/Transaxles Lecture	3.00
AUT53	Automatic Transmissions/Transaxles Lab	3.00
AUT56	Manual Transmission/Drivetrains Lecture	2.00
AUT57	Manual Transmission/Drivetrains Lab	2.00
GE	Area 4 Choice (See GE Guide)	3.00
Term 5		13.00-15.00
AUT30	Gas/Diesel Engine Performance Lecture	5.00
AUT31	Gas/Diesel Engine Performance Lab	5.00
GE	Area 5 Choice (See GE Guide)	3.00-5.00
	Total	71.00-77.00

AS Degree in Automotive Technology - Honda, Professional Automotive Career Training (PACT)

Contact Information:

Department Office: WM 105 or SC 115
Department Phone: (530) 893-7726
Department Contact: Craig Kielb, Chair (530) 892-3013
Counseling/ Advising: (530) 895-2378
Transfer Center: (530) 895-2264

About the Program:

Program Goal: CTE
GE Pattern(s): Butte Local
Program Code: 38066.01AS

The Associate of Science Degree in Automotive Technology - Honda, Professional Automotive Career Training (PACT) prepares students to enter the workforce as entry level Honda and Acura technicians in dealerships nationwide.

The Butte College Automotive Technology program is an ASE Education Foundation certified school and has partnered with American Honda to prepare students for employment as automotive technicians in Honda and Acura dealerships. All automotive classes are offered at the Skyway Center in Chico. The Skyway Center is a modern facility and completely outfitted with all Honda, Acura, and ASE required training aids and tooling needed to prepare the student for a successful automotive technician career. The goal of the department is to train highly-skilled entry-level technicians with work habits that will make them successful in their career.

After program completion, the student will also receive a nationally recognized certification from American Honda that indicates the completion of standardized curriculum delivered at all PACT schools across the nation.

Automotive career opportunities are offered nationwide along with paid internships for Honda PACT students. Help with job placement is available for successful students. For Career information please refer to our website: www.butte.edu/departments/careertech/automotive or contact the Automotive Department Chair.

Admission to the Program:

~~There is a limitation on enrollment into the Automotive Program. If you are interested in this program and would like to make an appointment to get on the Automotive waiting list, please refer to our website: www.butte.edu/departments/careertech/automotive/~~

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~~If you have any further questions, please contact the Automotive Department Chair (see www.butte.edu/departments/careertech/automotive and click on "Instructor Contact")~~

~~Prerequisite/Corequisite: Beginning in Fall 2024 students will be required to have completed or be concurrently enrolled in AUT 101 or equivalent.~~

Due to high interest, this program may have limited enrollment through a waitlist. If you are interested in this program and would like to register or get on the program waitlist, please refer to our website: www.butte.edu/departments/careertech/automotive/

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If you have any further questions, please contact the Automotive Department Chair (see www.butte.edu/departments/careertech/automotive and click on "Instructors")

Prerequisite/Corequisite: Beginning in Fall 2024 students will be required to have completed or be concurrently enrolled in AUT 101 or equivalent.

Program Learning Outcome(s):

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

1. Explain the principles of operation and maintenance required to repair all systems of Honda and Acura automobiles.
2. Safely and correctly maintain, diagnose and repair specific areas of Honda and Acura automobiles.

Required courses:

AUT 3	Specialized Automotive Electronics	53.50
AUT 6	Automotive Electrical Systems Lecture	6.00
AUT 7	Automotive Electrical Systems Lab	2.00
AUT 8	Auto Engines Lecture	2.00
AUT 9	Automotive Engines Lab	3.00
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	3.00

AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	3.00
AUT 22	Automotive Heating and Air Conditioning Lecture	2.00
AUT 23	Automotive Heating and Air Conditioning Lab	2.00
AUT 30	Gas/Diesel Engine Performance Lecture	5.00
AUT 31	Gas/Diesel Engine Performance Lab	5.00
AUT 52	Automatic Transmissions/Transaxles Lecture	3.00
AUT 53	Automatic Transmissions/Transaxles Lab	3.00
AUT 56	Manual Transmissions/Drivetrains Lecture	2.00
AUT 57	Manual Transmissions/Drivetrains Lab	2.00
AUT 60	Hybrid and Alternative Fuel Technologies	2.00
AUT 81	Honda PACT Employment Preparation I	2.00
AUT 82	Honda PACT Employment Preparation II	2.00

AUT 83	Honda PACT Skills Certification	1.50
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Total: 53.50

Suggested Program Map (Butte GE)

Required courses:

Units: 76.50-82.50

<i>Term 1</i>		16.00
AUT 3	Specialized Automotive Electronics	6.00
AUT 52	Automatic Transmissions/Transaxles Lecture	3.00
AUT 53	Automatic Transmissions/Transaxles Lab	3.00
AUT 56	Manual Transmissions/Drivetrains Lecture	2.00
AUT 57	Manual Transmissions/Drivetrains Lab	2.00
AUT 6	Automotive Electrical Systems Lecture	2.00
AUT 7	Automotive Electrical Systems Lab	2.00
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	3.00
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	3.00
Area 2 Choice (See GE Guide)		3.00-5.00
<i>Term 3</i>		14.00
AUT 8	Auto Engines Lecture	3.00
AUT 9	Automotive Engines Lab	3.00
AUT 22	Automotive Heating and Air Conditioning Lecture	2.00
AUT 23	Automotive Heating and Air Conditioning Lab	2.00
AUT 60	Hybrid and Alternative Fuel Technologies	2.00
AUT 81	Honda PACT Employment Preparation I	2.00
AUT 30	Gas/Diesel Engine Performance Lecture	5.00
AUT 31	Gas/Diesel Engine Performance Lab	5.00
AUT 82	Honda PACT Employment Preparation II	2.00
Area 5 Choice (See GE Guide)		3.00-5.00
<i>Term 5</i>		18.50-20.50
AUT 83	Honda PACT Skills Certification	1.50
Area 1A Choice (See GE Guide)		3.00-4.00
Area 1B Choice (See GE Guide)		3.00
Area 3 Choice (See GE Guide)		3.00-4.00
Area 4 Choice (See GE Guide)		3.00
Area 6 Choice (See GE Guide)		3.00
Graduation Requirement Choice (See GE Guide)		2.00

Total: 76.50-82.50

Term 1		15.00-18.00
AUT3	Specialized Automotive Electronics	6.00
GE	Area 1A choice (See GE Guide)	3.00-4.00
GE	Area 2 Choice (See GE Guide)	3.00-5.00
GE	Area 6 Choice (See GE Guide)	3.00
Term 2		16.00-17.00
AUT6	Automotive Electrical Systems Lecture	2.00
AUT7	Automotive Electrical Systems Lab	2.00
AUT20	Automotive Brakes/Suspension and Steering Lecture	3.00
AUT21	Automotive Brakes/Suspension and Steering Lab	3.00
GE	Area 1B Choice (See GE Guide)	3.00
GE	Area 3 Choice (See GE Guide)	3.00-4.00
Term 3		16.00
AUT8	Automotive Engines Lecture	3.00
AUT9	Automotive Engines lab	3.00
AUT22	Automotive Heating and Air Conditioning Lecture	2.00
AUT23	Automotive Heating and Air Conditioning Lab	3.00
AUT60	Hybrid and Alternative Fuel Technologies	2.00
AUT81	Honda PACT Employment Preparation I	2.00
GE	Graduation Requirement Choice (See GE Guide)	2.00
Term 4		15.00
AUT52	Automatic Transmissions/Transaxles Lecture	3.00
AUT53	Automatic Transmissions/Transaxles Lab	3.00
AUT56	Manual Transmission/Drivetrains Lecture	2.00
AUT57	Manual Transmission/Drivetrains Lab	2.00
AUT82	Honda PACT Employment Preparation II	2.00
GE	Area 4 Choice (See GE Guide)	3.00
Term 5		14.50-16.50
AUT30	Gas/Diesel Engine Performance Lecture	5.00
AUT31	Gas/Diesel Engine Performance Lab	5.00
GE	Area 5 Choice (See GE Guide)	3.00-5.00
AUT83	Honda PACT Skills Certification	1.50
	Total	76.50-82.50

AS Degree in Diesel Technology

Contact Information:

Department Office: WM 105 or SC 115

Department Phone: (530) 893-7726

Department Contact: Craig Kielb, Chair (530) 892-3013

Counseling/ Advising: (530) 895-2378

Transfer Center: (530) 895-2264

About the Program:

Program Goal: CTE

GE Pattern(s): Butte Local

Program Code: 38059.01AS

The Associate of Science Degree in Diesel Technology has been developed to provide the light and medium duty diesel industry with well-prepared, entry-level technicians. Our rural location and its heavy agricultural influence necessitate the need for technicians who are trained in the area of diesel-powered trucks and equipment. This program will prepare the student to diagnose the mechanical, electrical, and hydraulic systems found on over the road diesel powered vehicles and equipment.

Upon successful completion of the Diesel Technology Program, students will enter the industry with their Section 609 Compliance Certification, making it possible to service refrigeration units. Along with the 609 Certification, students will also receive their Department of Transportation (D.O.T.) brake inspection certification.

A career as a Diesel Technician offers a higher starting and hourly mean wage than that of a light car and truck technicians (Bureau of Labor Statistics May 2016). With that, the areas that offer employment opportunities range from heavy equipment dealers/shops, fleet maintenance facilities, public and private, along with new car/truck dealers. This diversity offers a lot of flexibility regarding location. Employment can be found in urban areas as well as rural farming communities.

Help with job placement is available for successful students. For Career information please refer to our website: www.butte.edu/departments/careertech/automotive or contact the Automotive Department Chair.

Admission to the Program:

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~~Then click on "Sign up (click here)"~~

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~~If you have any further questions, please contact the Automotive Department Chair (see www.butte.edu/departments/careertech/automotive and click on "Instructor Contact")~~

~~Prerequisite: Beginning in Fall 2024 students will be required to have completed AUT 101 or equivalent.~~

Due to high interest, this program may have limited enrollment through a waitlist. If you are interested in this program and would like to register or get on the program waitlist, please refer to our website: www.butte.edu/departments/careertech/automotive/

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If you have any further questions, please contact the Automotive Department Chair (see www.butte.edu/departments/careertech/automotive and click on "Instructors")

Prerequisite/Corequisite: Beginning in Fall 2024 students will be required to have completed or be concurrently enrolled in AUT 101 or equivalent.

Program Learning Outcome(s):

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

1. Explain the operation of diesel engine components and ~~vehide~~ sub-systems.
2. ~~Identify various diesel engine applications.~~
3. Apply the state and federal regulations of Occupational Safety and Health Association (OSHA) and the Environmental Protection Agency (EPA).
4. Apply general principles of preventive maintenance to diesel repair.
5. Demonstrate proficiency in the use of industry standard tools and precision measuring instruments.
6. ~~Apply safe work habits and practices.~~
7. Troubleshoot and perform repairs on mechanical, electrical, hydraulic, ~~refrigeration~~, and electronic systems.
8. Use computers to diagnose equipment and research information

9. ~~Perform preventative maintenance such as engine tune-ups, front-end alignments, and brake adjustments.~~
10. Operate shop machinery and equipment including hoists, hydraulic jacks, steam cleaners, floor jacks, disassembly stands, grinders, drill presses, hydraulic presses, and bead blasters.
11. ~~Select and use precision tools such as torque wrenches, micrometers, dial indicators, tap and dies, and bore gauges.~~
12. Maintain professional attitude in challenging working conditions.

Required courses:

		56.00
AUT 3	Specialized Automotive Electronics	6.00
AUT 6	Automotive Electrical Systems Lecture	2.00
AUT 7	Automotive Electrical Systems Lab	2.00
AUT 8	Auto Engines Lecture	3.00
AUT 9	Automotive Engines Lab	3.00
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	3.00
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	3.00
AUT 22	Automotive Heating and Air Conditioning Lecture	2.00
AUT 23	Automotive Heating and Air Conditioning Lab	2.00

AUT 30	Gas/Diesel Engine Performance Lecture	5.00
AUT 31	Gas/Diesel Engine Performance Lab	5.00
AUT 32	Smog Inspection	3.00
AUT 52	Automatic Transmissions/Transaxles Lecture	3.00
AUT 53	Automatic Transmissions/Transaxles Lab	3.00
AUT 56	Manual Transmissions/Drivetrains Lecture	2.00
AUT 57	Manual Transmissions/Drivetrains Lab	2.00
AUT 73	Diesel Industry Technologies Lecture	3.00
AUT 74	Diesel Industry Technologies Lab	3.00
WLD 20	Beginning Welding	4.00

Total: ~~59.00~~56.00

Suggested Program Map (Butte GE)

Required courses:

Units: 82.00-88.00

<i>Term 1</i>		16.00-19.00
AUT 3	Specialized Automotive Electronics	6.00
WLD 20	Beginning Welding	4.00
Area 1A Choice (See GE Guide)		3.00-4.00
Area 2 Choice (See GE Guide)		3.00-5.00

<i>Term 2</i>		16.00-17.00
AUT 52	Automatic Transmissions/Transaxles Lecture	3.00
AUT 53	Automatic Transmissions/Transaxles Lab	3.00
AUT 56	Manual Transmissions/Drivetrains Lecture	2.00
AUT 57	Manual Transmissions/Drivetrains Lab	2.00
Area 1B Choice (See GE Guide)		3.00
Area 3 Choice (See GE Guide)		3.00-4.00

<i>Term 3</i>		15.00
AUT 8	Auto Engines Lecture	3.00
AUT 9	Automotive Engines Lab	3.00
AUT 22	Automotive Heating and Air Conditioning Lecture	2.00
AUT 23	Automotive Heating and Air Conditioning Lab	2.00
Area 6 Choice (See GE Guide)		3.00
Graduation Requirement Choice (See GE Guide)		2.00

<i>Term 4</i>		16.00
AUT 6	Automotive Electrical Systems Lecture	2.00
AUT 7	Automotive Electrical Systems Lab	2.00
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	3.00
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	3.00
AUT 73	Diesel Industry Technologies Lecture	3.00
AUT 74	Diesel Industry Technologies Lab	3.00

Term 5		19.00-21.00
AUT 30	Gas/Diesel Engine Performance Lecture	5.00
AUT 31	Gas/Diesel Engine Performance Lab	5.00
AUT 32	Smog Inspection	3.00
Area 4 Choice (See GE Guide)		3.00
Area 5 Choice (See GE Guide)		3.00-5.00

Total: 82.00-88.00

Term 1		15.00-18.00
AUT3	Specialized Automotive Electronics	6.00
GE	Area 1A choice (See GE Guide)	3.00-4.00
GE	Area 2 Choice (See GE Guide)	3.00-5.00
GE	Area 6 Choice (See GE Guide)	3.00
Term 2		16.00-17.00
AUT6	Automotive Electrical Systems Lecture	2.00
AUT7	Automotive Electrical Systems Lab	2.00
AUT20	Automotive Brakes/Suspension and Steering Lecture	3.00
AUT21	Automotive Brakes/Suspension and Steering Lab	3.00
GE	Area 1B Choice (See GE Guide)	3.00
GE	Area 3 Choice (See GE Guide)	3.00-4.00
Term 3		16.00
AUT8	Automotive Engines Lecture	3.00
AUT9	Automotive Engines lab	3.00
AUT22	Automotive Heating and Air Conditioning Lecture	2.00
AUT23	Automotive Heating and Air Conditioning Lab	3.00
AUT73	Diesel Industry Technologies Lecture	3.00
AUT74	Diesel Industry Technologies Lab	3.00
Term 4		17.00
AUT52	Automatic Transmissions/Transaxles Lecture	3.00
AUT53	Automatic Transmissions/Transaxles Lab	3.00
AUT56	Manual Transmission/Drivetrains Lecture	2.00
AUT57	Manual Transmission/Drivetrains Lab	2.00
WLD20	Beginning Welding	4.00
GE	Area 4 Choice (See GE Guide)	3.00
Term 5		15.00-17.00
AUT30	Gas/Diesel Engine Performance Lecture	5.00
AUT31	Gas/Diesel Engine Performance Lab	5.00
GE	Area 5 Choice (See GE Guide)	3.00-5.00
GE	Graduation Requirement Choice (See GE Guide)	2.00
Total		79.00-85.00

AS Degree in Health Occupations Preparation

Contact Information:

Department Office: LRC 320

Department Phone: (530) 893-7450

Department Contact: Kelly Wood, Chair (530) 895-2580

Counseling/ Advising: (530) 895-2378

Transfer Center: (530) 895-2264

About the Program:

Program Goal: Local

GE Pattern(s): Butte Local, CSU, IGETC

Program Code: 44131.00AS

An Associate of Science in Health Occupations Preparation degree readies students for programs such as licensed vocational nursing, registered nursing, and respiratory therapy at Butte College. This degree also prepares students to transfer to healthcare related programs at neighboring community colleges and/or four-year institutions to continue studies in their area of interest. Students should consult with a counselor for more information on varied requirements for specific pathways.

Program Learning Outcome(s):

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

1. Apply principles of anatomy and physiology to describe maintenance of homeostasis at the cellular and systemic level.
2. Critically analyze and interpret data as it relates to physiological and diagnostic applications.
3. Apply principles of anatomy, physiology, and microbiology to describe the pathophysiology of human diseases.
4. Explain pharmaceutical drug actions based on knowledge of chemical and physiological mechanisms.
5. Express knowledge of current scientific and social issues affecting health care systems.

Remove all options – see below for new core

<i>Required courses:</i>		24.00-38.00
<i>Required Core (students must complete core courses plus one option)</i>		21.00
BIOL 20	Human Anatomy	4.00
BIOL 21	Human Physiology	4.00
<i>Select One:</i>		5.00
CHEM 1	General Chemistry I	5.00
CHEM 51	Elementary Inorganic Chemistry	5.00
<i>Select One:</i>		4.00
MATH 18	Introduction to Statistics	4.00
MATH 18s	Introduction to Statistics with Support	4.00
MATH 26	College Algebra	4.00
MATH 26s	College Algebra with Support	4.00
<i>Select One:</i>		4.00
ENGL 2	Reading and Composition	4.00
ENGL 3	Reading and Composition Intensive	4.00
<i>Select One Option</i>		3.00-17.00
<i>Licensed Vocational Nursing Option</i>		3.00-4.00
<i>Select One:</i>		3.00-4.00
FN 2	Nutrition	3.00
FN 50	Nutrition and Diet Therapy	4.00
OR		
<i>Registered Nursing Option (Includes Accelerated Track)</i>		16.00-17.00
BIOL 15	Introduction to Microbiology	4.00
PSY 1	Principles of Psychology	3.00
<i>Select One:</i>		3.00
CMST 2	Public Speaking	3.00
CMST 2H	Honors Public Speaking	3.00
CMST 4	Small Group Communication	3.00
CMST 10	Interpersonal Communication	3.00
<i>Select One:</i>		3.00-4.00
FN 2	Nutrition	3.00
FN 50	Nutrition and Diet Therapy	4.00

	Course	Title	Units	CalGETC
Core	BIOL 15	Introduction to Microbiology	4	5B/C
	BIOL 20	Human Anatomy	4	5B/C
	BIOL 21	Human Physiology	4	5B/C
	FN 2	Nutrition	3	GRAD
	PSY 1	Principles of Psychology	3	4
Select one:	CHEM 1	General Chemistry I	5	5A/C
	CHEM 51	Elementary Inorganic Chemistry	5	5A/C
Select one:	MATH 18/18s	Introduction to Statistics/with Support	4	2
	MATH 26/26s	College Algebra/with Support	4	2
	MATH 28/28s	Precalculus/with Support	4	2
Select one:	CMST 2	Public Speaking	3	1C pending
	CMST 4	Small Group Communication	3	1C pending
Select one:	ANTH 4	Cultural Anthropology	3	4
	SOC 2	Principles of Sociology	3	4
	SOC 4	Modern Social Problems	3	4

- Rationale for changes:
 - 4 pathways not working in Degree Planner. System was shutting down all other options when lowest option was met
 - Add BIOL 15, FN 2, PSY 1 to core
 - BIOL 15 not needed for LVN but many LVN students move into RN and will need it eventually
 - FN 2 not needed for RT but meets grad requirement
 - FN 2 not needed for LVN to RN but will likely have taken it to be an LVN
 - PSY 1 not needed for LVN but gives them a CalGETC Area 4
 - Remove FN 50 from FN 2/50 option
 - CSUC General Nursing takes either
 - FN 50 is more units than FN 2 and meets no GE
 - FN 2 meets GRAD
 - Remove CMST 2H/ANTH 4H – courses have been deleted through curriculum 9/24
 - Remove CMST 10 from CMST 2/4/10 option as 10 doesn't meet GE, the rest do (CSUC does not take 10)
 - Remove ALH 6 (put in AS RT instead)
 - Remove ENGL 2/3 as meets GE

AS Degree in Respiratory Care

Contact Information:

Department Office: AHPS 251
Department Phone: (530) 893-7533
Department Website: <https://butte.edu/careers/healthoccupations/>
Department Contact: Donna Davis, Chair (530) 895-2827
Counseling/ Advising: (530) 895-2378
Transfer Center: (530) 895-2264

About the Program:

Program Goal: CTE
GE Pattern(s): Butte Local
Program Code: 01342.00AS

The Butte College Respiratory Care program is accredited by the Commission on Accreditation for Respiratory Care (CoARC) (www.coarc.com).

Commission on Accreditation for Respiratory Care:
264 Precision Blvd.
Telford, TN 37690
(631) 912-7920

The Respiratory Care program is designed to prepare students to become licensed Respiratory Care Practitioners in the state of California. In addition, the program prepares the successful graduate to participate in the Registered Respiratory Therapist (RRT) examinations administered by the National Board for Respiratory Care (NBRC).

Respiratory care practitioners are highly skilled allied health professionals involved in the therapy, management, rehabilitation, diagnostic evaluation and care of patients with deficiencies and abnormalities that affect the cardiopulmonary system. They are employed in a variety of health care settings, including hospitals, physician's offices, home health agencies, specialized care hospitals, medical equipment supply companies, diagnostic laboratories, and patients' homes. They may further specialize in such areas as adult critical care, neonatal or pediatric intensive care, pulmonary function testing, transport medicine, hyperbaric medicine, cardiac and pulmonary rehabilitation programs, home care, management or education.

Graduates practicing in California are required to take and pass the National Board of Respiratory Care Therapist Multiple Choice exam at the high cut score and the Clinical Simulation Exam to achieve licensure. *Note: A person convicted of any offense other than a minor traffic violation may not qualify to be licensed as a Respiratory Care Practitioner in California. Questions regarding this should be directed to the Respiratory Care Program Director.

Admission to the Program:

- Requirements for Application:
 - Age 17 or older.
 - Prerequisites: BIOL 15, BIOL 20, BIOL 21, CHEM 51, and MATH 18/18s or MATH 26/26s. Must be completed with a C grade or better.
- Requirements for Admission to Program:
 - Students must pass a background check, drug screening, and physical exam, and verify their physical ability to perform the tasks required of a Respiratory Therapist.
- Requirements for Completion of Program (courses may be taken prior to or during the program):
 - ~~ALH 6 – The Critical Six Soft Skills in the Professional Healthcare Environment~~
 - PSY 1 – Principles of Psychology
 - CMST 2, 2H, 4 (select one option)
 - All prerequisites and program required courses must be completed with a C grade or better.

The Respiratory Care program admits students once a year. The program begins in a Fall semester.

Students are admitted by application only. Contact the Health Occupations office or visit www.butte.edu/healthoccupations for application dates and materials. In the event that there are more qualified applicants than spaces in the program, a computerized lottery will be used to select the individuals to be enrolled.

Estimated expenses average about \$6,000 - \$7,000 for the entire program, including licensure. Financial aid may be available to qualified students.

Program Learning Outcome(s):

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

1. Demonstrate a solid professional and general medical knowledge base.
2. Accurately interpret pertinent clinical information from medical records and physical findings.
3. Recommend appropriate therapeutic interventions based on physiological data and patient assessment data.
4. Demonstrate sound clinical judgment and is proficient in the clinical skills required on the job.
5. Competently perform the therapeutic procedures and modalities, and diagnostic procedures required on the job.
6. Demonstrate efficient performance of an overall patient assessment.
7. Demonstrate effective oral and communication skills.
8. Exhibit ethical and professional manners, including timely and prepared entrance to clinic and contributing to a positive work environment.
9. Function effectively as a member of the health care team, accepts supervision and works effectively with supervisory personnel.

- 10. Demonstrate self-direction and responsibility for his/her own actions.
- 11. Display respect for beliefs and values of all persons regardless of cultural background, religion, age, or lifestyle.

<i>Required courses:</i>		57.00
ALH 6	The Critical Six Soft Skills in the Professional Healthcare Environment	3.00
RT 110	Fundamentals of Respiratory Care	7.00
RT 115	Clinical Preparation for Respiratory Care	0.50
RT 118	Respiratory Care Pharmacology	3.00
RT 120	Concepts in Respiratory Care	7.00
RT 125	Introduction to Clinical Respiratory Care	5.00
RT 135	Fundamentals of Clinical Respiratory Care	3.50
RT 140	Fundamentals of Intensive Respiratory Care	6.00
RT 142	Neonatal and Pediatric Respiratory Care	3.00
RT 145	Advanced Respiratory Care Procedures	5.00
RT 155	Respiratory Care Practicum I	2.00
RT 160	Respiratory Care Seminar II	4.00
RT 165	Respiratory Care Practicum II	8.00

Total: 57.00

Suggested Program Map

Required courses:

Units: 68.00-70.00

This Respiratory Care program requires special admission criteria and prerequisites of BIOL 15, BIOL 20, BIOL 21, CHEM 51, and MATH 18/18s or MATH 26/26s. The following courses may be taken prior to or during the program: ALH 6, PSY 1, and CMST 2, 2H, or 4 (select one). See About the Program for more details.

<i>Term 1</i>		11.00-15.00
ALH 6 - The Critical Six Soft Skills in the Professional Healthcare Environment		3.00
Area 1A Choice (See GE Guide)		3.00-4.00
Area 3 Choice (See GE Guide)		3.00-4.00
Graduation Requirement Choice (See GE Guide)		2.00
<i>Term 2</i>		3.00
Area 6 Choice (See GE Guide)		3.00
<i>Term 3</i>		10.00
RT 110	Fundamentals of Respiratory Care	7.00
Prerequisite: Admission to the RT Program, ALH 6 (or concurrent enrollment).		
RT 118	Respiratory Care Pharmacology	3.00
Note: Term 3 begins in Fall only		
<i>Term 4</i>		0.50
RT 115	Clinical Preparation for Respiratory Care	0.50
Note: Winter Intersession		
<i>Term 5</i>		12.00
RT 120	Concepts in Respiratory Care	7.00
RT 125	Introduction to Clinical Respiratory Care	5.00
<i>Term 6</i>		3.50
RT 135	Fundamentals of Clinical Respiratory Care	3.50
Note: Summer Intersession		
<i>Term 7</i>		14.00
RT 140	Fundamentals of Intensive Respiratory Care	6.00
RT 142	Neonatal and Pediatric Respiratory Care	3.00
RT 145	Advanced Respiratory Care Procedures	5.00
<i>Term 8</i>		2.00
RT 155	Respiratory Care Practicum I	2.00
Note: Winter Intersession		
<i>Term 9</i>		12.00
RT 160	Respiratory Care Seminar II	4.00

RT 165

Respiratory Care Practicum II

8.00

Total: 68.00-70.00

Certificate of Achievement in Diesel Technology

Contact Information:

Department Office: WM 105 or SC 115
Department Phone: (530) 893-7726
Department Contact: Craig Kielb, Chair (530) 892-3013
Counseling/ Advising: (530) 895-2378
Transfer Center: (530) 895-2264

About the Program:

Program Goal: CTE
GE Pattern(s): None
Program Code: 37941.01CA

See AS Degree in Diesel Technology.

Admission to the Program:

See AS Degree in Diesel Technology.

Program Learning Outcome(s):

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

1. Explain the operation of diesel engine components and systems.
2. Identify various diesel engine applications.
3. Apply the state and federal regulations of Occupational Safety and Health Association (OSHA) and the Environmental Protection Agency (EPA).
4. Apply general principles of preventive maintenance to diesel repair.
5. Demonstrate proficiency in the use of industry standard tools and precision measuring instruments.
6. Apply safe work habits and practices.
7. Troubleshoot and perform repairs on mechanical, electrical, hydraulic and electronic systems.
8. Use computers to diagnose equipment and research information
9. Perform preventative maintenance such as engine tune-ups, front-end alignments, and brake adjustments.
10. Operate shop machinery and equipment including hoists, hydraulic jacks, steam cleaners, floor jacks, disassembly stands, grinders, drill presses, hydraulic presses, and bead blasters.
11. Select and use precision tools such as torque wrenches, micrometers, dial indicators, tap and dies, and bore gauges.
12. Maintain professional attitude in challenging working conditions
13. Develop self-confidence and pride in workmanship.
14. Think analytically and make professional decisions

Required courses:

AUT 3	Specialized Automotive Electronics	6.00
AUT 6	Automotive Electrical Systems Lecture	2.00
AUT 7	Automotive Electrical Systems Lab	2.00
AUT 8	Auto Engines Lecture	3.00
AUT 9	Automotive Engines Lab	3.00
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	3.00
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	3.00
AUT 22	Automotive Heating and Air Conditioning Lecture	2.00
AUT 23	Automotive Heating and Air Conditioning Lab	2.00
AUT 30	Gas/Diesel Engine Performance Lecture	5.00
AUT 31	Gas/Diesel Engine Performance Lab	5.00
AUT 32	Smog Inspection	3.00
AUT 52	Automatic Transmissions/Transaxles Lecture	3.00
AUT 53	Automatic Transmissions/Transaxles Lab	3.00
AUT 56	Manual Transmissions/Drivetrains Lecture	2.00
AUT 57	Manual Transmissions/Drivetrains Lab	2.00
AUT 73	Diesel Industry Technologies Lecture	3.00
AUT 74	Diesel Industry Technologies Lab	3.00
WLD 20	Beginning Welding	4.00

Total: **56.00**

Suggested Program Map

Required courses:

Units: 59.00

<i>Term 1</i>		10.00
AUT 3	Specialized Automotive Electronics	6.00

WLD 20	Beginning Welding	4.00
<i>Term 2</i>		10.00
AUT 52	Automatic Transmissions/Transaxles Lecture	3.00
AUT 53	Automatic Transmissions/Transaxles Lab	3.00
AUT 56	Manual Transmissions/Drivetrains Lecture	2.00
AUT 57	Manual Transmissions/Drivetrains Lab	2.00
<i>Term 3</i>		10.00
AUT 8	Auto Engines Lecture	3.00
AUT 9	Automotive Engines Lab	3.00
AUT 22	Automotive Heating and Air Conditioning Lecture	2.00
AUT 23	Automotive Heating and Air Conditioning Lab	2.00
<i>Term 4</i>		16.00
AUT 6	Automotive Electrical Systems Lecture	2.00
AUT 7	Automotive Electrical Systems Lab	2.00
AUT 20	Automotive Brakes/Suspension and Steering Systems Lecture	3.00
AUT 21	Automotive Brakes/Suspension and Steering Systems Lab	3.00
AUT 73	Diesel Industry Technologies Lecture	3.00
AUT 74	Diesel Industry Technologies Lab	3.00
<i>Term 5</i>		13.00
AUT 30	Gas/Diesel Engine Performance Lecture	5.00
AUT 31	Gas/Diesel Engine Performance Lab	5.00
AUT 32	Smog Inspection	3.00

Total: 56.00

Certificate of Achievement in Firefighter I and II Academy

Contact Information:

Department Office: AHPS 144
Department Phone: (530) 895-2401 or (530) 895-2402
Department Contact: Don Beasley, Director (530) 895-2405
Counseling/ Advising: (530) 895-2378
Transfer Center: (530) 895-2264

About the Program:

Program Goal: CTE
GE Pattern(s): None
Program Code: 32841.01CA

The Firefighter I and II Academy is a special admission academy that is offered twice each year (Fall and Spring) as a 20 19-week program, 8 hours daily. Accredited by the California State Fire Marshal (CSFM) and the State Board of Fire Services as an Accredited Regional Fire Academy, the Butte College Firefighter I and II Academy is considered to be one of the premier fire academies in the country. Our Academy graduates have secured fire service positions in agencies from coast to coast. The majority of fire agencies in California require both a CSFM Firefighter I certificate and an EMT-Basic certificate to qualify for a position as a firefighter. The Butte College Firefighter I Academy far exceeds these requirements. The Firefighter II component will prepare the student to obtain the knowledge, skills, and abilities to meet the California State Fire Marshal IFSAC/PROBOARD certification for Firefighter II plus enhancing their ability to secure employment with a fire agency. Physical conditioning is an important concern in the fire service. During the Academy, cadets receive more than 100 hours of combined physical fitness and agility course training by certified physical fitness instructors. Graduates will not only be in good physical condition, but will also be prepared for the difficult, varied and competitive fire service physical agility entry-level testing. For more detailed information or to apply to the Butte College Firefighter I and II Academy, please visit our website at: http://www.butte.edu/departments/careertech/publicsafety/fire_academy.html.

The Firefighter I Academy prepares students for successful completion of the Firefighter I Certificate issued by the California Office of State Fire Marshal and to enter into the workforce as entry level firefighters.

The Firefighter II Academy prepares the students for successful completion for the coursework required by the California State Fire Marshal and to better the chances for the student to secure employment.

Admission to the Program:

Completion of all prerequisite courses (prerequisites may be in progress at the time of application but must be completed prior to the start of the academy).

Prerequisites:

1. Attend (1) mandatory Orientation
2. ~~2.6 GPA from a high school or accredited college~~ 2.6 GPA from a high school if student have not attended college otherwise 2.6 GPA from all community college/universities, including Butte College
3. ~~Current EMT certification or successfully complete EMS 111 course~~ Current EMT certification or AEMT (Advanced EMT) certification
4. Student must be a high school graduate or have a GED/CHSPE and provide evidence.

Students are admitted by application only. Contact the Public Safety Education Center (AHPS 144) or visit http://www.butte.edu/careers/public_safety for application dates and materials. Admission to the program is based on academic and general requirements. The program will accept the first 40 applicants who complete all the required steps.

~~Requirements for Application and Admission: Age 18 years or older with a 12th grade education or equivalent. A cumulative GPA of 2.6.~~

Completion of all application forms including Personal History Statement, Health History Statement, and Physical Examination.

Fingerprinting through the California Department of Justice is required. Applicants' conviction and incarceration history must be reviewed and evaluated for clinical eligibility, based on state standards.

Program Learning Outcome(s):

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

1. Describe the components of a personal fitness program and develop a personal fitness program that will allow them to pass a standard fire fighter employment physical ability examination.
2. Successfully perform tasks which combine manipulative and technical competency required for California Firefighter I and II certification.
3. Certificates in other related career enhancement fields to strengthen the marketability of the student for a career into the fire service.
4. Upon successful completion of this course, the student will be able to: A. Demonstrate the knowledge, skills, and abilities required to meet the California State Fire Marshal IFSAC/PROBOARD Certification for Firefighter I and II.

Required courses:

EDUC 10	Critical Skills for College Success	26.50
FSC 105	Fire Academy Physical Training	0.50
FSC 106	Firefighter I Academy	2.50
FSC 107	Firefighter II Academy	22.00
		1.50

Total: 26.50

Suggested Program Map

Required courses:

Units: 26.50

Term 1

EDUC 10	Critical Skills for College Success	0.50
FSC 105	Fire Academy Physical Training	2.50
FSC 106	Firefighter I Academy	22.00
FSC 107	Firefighter II Academy	1.50

Total: 26.50