Auto Body and Paint: Auto Body ASSOCIATE OF SCIENCE or CERTIFICATE OF ACHIEVEMENT

The **AS degree** will be awarded upon satisfactory completion of the major course requirements listed below and the General Education requirements for the Associate in Arts Degree listed in the Degrees and Programs section of this Catalog.

A **Certificate of Achievement in Auto Body** will be awarded to those students completing a minimum of 25 units as outlined below with a 2.0 GPA.

Career Opportunities

The Auto Body and Paint program prepares students to enter the job market as trained and qualified technicians.

Upon registering for a class in the Auto Body and Paint program, the student will receive a list of required basic tools. The student will be expected to provide tools that relate to the particular course in which he/she has enrolled. The purpose of this requirement is to assure that students graduating from the program who wish to enter the trade possess the necessary tools.

Program Learning Outcomes

Upon completion of this program a student will be able to:

- Explain through essay and orally each of the undercoat categories and demonstrate application to substrates.
- Make necessary computation of VOC's and log these computations into BAAQMD acceptable standards.
- Analyze and correct paint failures and problems.
- Dissemble, clean, test, and diagnose spray guns used under Sec. 8, Rule 45.

Degree Major/Certificate Requirements:

DEPT/NO.	TITLE	UNITS
AUTOB 10	Basic Auto Body Repair Concepts	10
AUTOB 20	Advanced Repair Concepts	10
MATH 225	Math for Technicians (or higher)	3
AUTOB 12	Service Welding for Transportation Technology	2
ATECH 026	Introduction to Automotive Electrical Systems	4
	Total Required Units:	29

Auto Body and Paint: Auto Body ASSOCIATE IN SCIENCE

Recommended Course Sequence

		COURSE	UNITS	REQUIREMENT	COA GE AREA
<u>-</u>	AUTOB 10	Basic Auto Body Repair Concepts	10	Major	
FALL	AUTOB 12	Service Welding for Transportation Technology	2	Major	
щ	MATH 15	Mathematics for Liberal Arts Students ¹	3	Major	4B
		Total Number of Units:	15		
5	AUTOB 20	Advanced Repair Concepts	10	Major	
SPRING	ENGL 1A ENGL 1AS	Composition and Reading or Composition and Reading (w/ support)	4 or 5	GE	4A
SF	CIS 205	Computer Literacy	1	GE	4C
		Total Number of Units:	15-16		
	COMM 6 COMM 20	Intercultural Communication or Interpersonal Communication Skills	3	GE	(2 or 4D) or 4D
FALL 2	SOC 5 PSYCH 18	Minority Groups or Psychology of Race and Ethnicity in the U.S.	3	GE	2 & 5
FA	SPAN 1A VIET 1A	Elementary Spanish or Elementary Vietnamese	5	GE	3
	GEOG 1	Physical Geography	3	GE	1
		Total Number of Units:	14		
	MUSIC 10 BUS 54	Music Appreciation or Small Business Management ²	3	Elective	
0 7	PSYCH 9A BUS 10	Psychology of Interpersonal Relations or Introduction to Business ²	3	Elective	
SPRING	COMM 1A BUS 208	Introduction to Speech or Communication Skills for Technicians ²	3	Elective	
	ATECH 26	Auto Electrical Systems	4	Elective	
	ART 46	2-D Visual Design	3	Elective	
		Total Number of Units:	16		

1 Students can choose to take any other degree applicable math course.

2 Student can complete a Small Business Administration Certificate if they complete BUS 54, 10, and 208.

AUTO BODY AND PAINT

Please meet with a counselor to develop a personalized education plan to help you meet your specific goals.

Recommended Course Sequence

	COURSE	UNITS	REQUIREMENT
- AUTOB 10	Basic Auto Body Repair Concepts	10	Major
AUTOB 12	Service Welding for Transportation Technology	2	Major
MATH 225	Math for Technicians (or higher)	3	Major
	Total Number of Units	: 15	
~			
	Advanced Repair Concepts	10	Major
AUTOB 16	Introduction to Automotive Plastic Parts Repair ¹	2	Elective
N	Total Number of Units	: 12	

1 Recommended for workforce preparation.

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Career Opportunities

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Program Learning Outcomes

Upon completion of this program a student will be able to:

- Explain through essay and orally each of the undercoat categories and demonstrate application to substrates.
- Make necessary computation of VOC's and log these computations into BAAQMD acceptable standards.
- Analyze and correct paint failures and problems.
- Dissemble, clean, test, and diagnose spray guns used under Sec. 8, Rule 45.

Degree Major/Certificate Requirements:

DEPT/NO.	TITLE	UNITS
MATH 225	Math for Technicians (or higher)	3
AUTOB 30	Paint Preparation/Equipment	10
AUTOB 40	Advanced Study/Refinishing	10
ATECH 16	Introduction to Automotive Plastic Parts Repair	2

Total Required Units:

25

Recommended Course Sequence

		COURSE	UNITS	REQUIREMENT	COA GE AREA
-	AUTOB 30	Basic Methods of Paint Preparation and Equipment	10	Major	
Ľ	MATH 15	Mathematics for Liberal Arts Students ¹	3	Major	4B
FA	COMM 6 COMM 20	Intercultural Communication or Interpersonal Communication Skills	3	GE	(2 or 4D) or 4D
		Total Number of Units:	16		

PRING	AUTOB 16 ENGL 1A	Introduction to Automotive Plastic Parts Repair Composition and Reading or	2 4 or 5	Major GE	4.0
S	ENGL 1AS	Composition and Reading (w/ support)	4 01 5	GE	4A

Total Number of Units: 16-17

	Total Number of Units:	15		
MUSIC 10 BUS 54	Music Appreciation or Small Business Management ²	3	Elective	
ART 20	Beginning Drawing and Composition	3	Elective	
SOC 5 PSYCH 18	Minority Groups or Psychology of Race and Ethnicity in the U.S.	3	GE	2 & 5
CIS 205	Computer Literacy	1	GE	4C
SPAN 1A VIET 1A	Elementary Spanish or Elementary Vietnamese	5	GE	3

GEOG 1	Physical Geography	3	GE	1
ART 46	2-D Visual Design	3	Elective	
COMM 1A BUS 208 PSYCH 9A	Introduction to Speech or Communication Skills for Technicians ²	3	Elective	
PSYCH 9A BUS 10	Psychology of Interpersonal Relations or Introduction to Business ²	3	Elective	
DANCE 68 KIN 54A	Modern Dance 1 or Cross Fitness I – Fundamentals	1	Elective	
	Total Number of Units:	13		

1 Students can choose to take any other degree applicable math course.

2 Student can complete a Small Business Administration Certificate if they complete BUS 54, 10, and 208.

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Recommended Course Sequence

		COURSE	UNITS	REQUIREMENT
L 1	AUTOB 30	Basic Methods of Paint Preparation and Equipment	10	Major
FA	MATH 225	Math for Technicians (or higher)	3	Major
		Total Number of Units:	13	
		Total Number of Units:	13	
NG 1	AUTOB 40	Total Number of Units: Advanced Study in Refinishing	13 10	Major
PRING 1				Major Elective

Please meet with a counselor to develop a personalized education plan to help you meet your specific goals.

Auto Body and Paint (AUTOB)

The Auto Body and Paint program prepares students to enter the job market as trained and qualified technicians, and allows students to continue toward a Baccalaureate degree in advanced schools of technology, as teachers or to broaden their skills in management, design or business. Lecture and laboratory instruction covers safety, trade ethics, use of hand and power tools, as well as theory, repair and painting of automobiles.

AUTOB 10

Basic Auto Body Repair Concepts

- 10 units, 6 hours lecture, 12 hours laboratory (GR)
- Recommended preparation: AUTOB 12
- Acceptable for credit: CSU

Basic techniques of auto body repair: Repair of collisiondamaged automobiles, and power tools and welding and cutting equipment used in the collision repair industry; emphasis on the "invisible" repair. 0949.00

AUTOB 12

Service Welding for Transportation Technology

- 2 units, 1 hour lecture, 3 hours laboratory (GR)
- Acceptable for credit: CSU

Transportation welding technology: Basic techniques of welding; safety, set-up, and operational procedures performed in Oxyacetylene, MIG, and welding operations. 0949.00

AUTOB 16

Introduction to Automotive Plastic Parts Repair

- 2 units, 1 hour lecture, 3 hours laboratory (GR)
- Prerequisite: AUTOB 10 or AUTOB 30

Introduction to automotive plastic part refinishing: Theory, principles, techniques, equipment requirements and legal responsibilities for the safe application of automotive finishes for plastic automotive parts. 0949.00

AUTOB 20

Advanced Auto Body Repair Concepts

- 10 units, 6 hours lecture, 12 hours laboratory (GR)
- Recommended preparation: Autob 10
- Acceptable for credit: CSU

Advanced techniques of auto body repair: State-of-theart measuring systems and frame pulling techniques, safe and efficient use of hydraulic equipment; analysis of the repair or replacement of sheetmetal, fiberglass, and SMC panels; cost estimating of damage repairs using computerized or printed manuals. 0949.00

AUTOB 30

Basic Methods of Paint Preparation and Equipment

- 10 units, 6 hours lecture, 12 hours laboratory
- (GR or P/NP)
- Acceptable for credit: CSU

Introduction to automotive refinishing: Theory, principles, techniques, equipment requirements, and legal responsibilities for the safe application of automotive finishes. 0949.00

AUTOB 40

Advanced Study in Refinishing

- 10 units, 6 hours lecture, 12 hours laboratory (GR)
- Recommended preparation: Autob 30
- Acceptable for credit: CSU

Methodology and associated skills to perform spot, panel, and complete refinishing of substrates: Catalyzed and non-catalyzed materials and their safe usage; causes, cures and prevention of paint failures; custom finishes and their usage. 0949.00

AUTOB 49

Independent Study in Auto Body and Paint

- .5-5 units, .5-5 hours lecture (GR or P/NP)
- Acceptable for credit: CSU

In-depth exploration of an area or problem of the student's choice not covered by regular catalog offerings in Auto Body and Paint. Student must obtain approval from an appropriate faculty member. For more details, see the section on independent study in the college catalog. 0949.00