

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

The **Auto Body and Paint** program prepares students to enter the job market with hands-on experience 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, welding practices, use of hand and power tools, as well as theory, repair, customization and painting of automobiles. Upon registering for a class in the Auto Body program, the student will receive a list of required basic tools. The student will be guided in acquiring appropriate tools that relate to the particular course in which he/she has enrolled. This way, students graduating from the program who wish to enter the automotive collision repair, customization and restoration trade possess the necessary tools.

The AS degree in Auto Body will be awarded upon satisfactory completion of the major course requirements listed below for each option and the General Education requirements for the Associate in Science Degree listed in the Degrees, Programs & Transfer Requirements section of this Catalog.

Career Opportunities

Students in this field typically work in automotive collision repair, customization and restoration environments.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Safely and effectively use hand tools and power tools and communicate the practices of occupational safety in the work environment.
- Accurately apply technical skills in the workplace based on hands-on knowledge of practices common within the industry.
- Understand parts of vehicles, vehicle construction and the language of the automotive trade.
- Apply scope of automotive principles to the creative components of automotive repair, restoration and customization.

Degree Major 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
AITECH 23	Automotive Air Conditioning	4

Minimum Required Units: 29

Auto Body and Paint: Auto Body ASSOCIATE IN SCIENCE

Recommended Course Sequence

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

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

Auto Body and Paint: Auto Body CERTIFICATE OF ACHIEVEMENT

Recommended Course Sequence

AUTO BODY AND PAINT

	COURSE		UNITS	REQUIREMENT
FALL 1	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	
SPRING 1	AUTOB 20	Advanced Repair Concepts	10	Major
	AUTOB 16	Introduction to Automotive Plastic Parts Repair ¹	2	Elective
	Total Number of Units:			12

¹ Recommended for workforce preparation.

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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 Paint** will be awarded to those students completing a minimum of 25 units as outlined below with a 2.0 GPA.

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.

Career Opportunities

Students in this field work in automotive paint sales and distribution and collision repair environments

Program Learning Outcomes

Upon successful completion of this program, students 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.
- Disassemble, clean, test, and diagnose spray guns used under Sec. 8, Rule 45.

Degree Major Requirements

DEPT/NO.	TITLE	UNITS
AUTOB 16	Introduction to Automotive Plastic Parts Repair	2
AUTOB 30	Basic Methods of Paint Preparation and Equipment	10
AUTOB 40	Advanced Study in Refinishing	10
MATH 225	Math for Technicians	3
Total Units Required for Major/Certificate:		25
Peralta General Education requirements:		19-22
Electives:		13-16
Total units required for degree:		60

Auto Body and Paint: Auto Paint ASSOCIATE IN SCIENCE

Recommended Course Sequence

	COURSE		UNITS	REQUIREMENT	COA GE AREA
FALL 1	AUTOB 30	Basic Methods of Paint Preparation and Equipment	10	Major	
	MATH 15	Mathematics for Liberal Arts Students ¹	3	Major	4B
	COMM 6 COMM 20	Intercultural Communication or Interpersonal Communication Skills	3	GE	(2 or 4D) or 4D
	Total Number of Units:		16		
SPRING 1	AUTOB 40	Advanced Study in Refinishing	10	Major	
	AUTOB 16	Introduction to Automotive Plastic Parts Repair	2	Major	
	ENGL 1A ENGL 1AS	Composition and Reading or Composition and Reading (w/ support)	4 or 5	GE	4A
	Total Number of Units:		16-17		
FALL 2	SPAN 1A VIET 1A	Elementary Spanish or Elementary Vietnamese	5	GE	3
	CIS 205	Computer Literacy	1	GE	4C
	SOC 5 PSYCH 18	Minority Groups or Psychology of Race and Ethnicity in the U.S.	3	GE	2 & 5
	ART 20	Beginning Drawing and Composition	3	Elective	
	MUSIC 10 BUS 54	Music Appreciation or Small Business Management ²	3	Elective	
	Total Number of Units:		15		
SPRING 2	GEOG 1	Physical Geography	3	GE	1
	ART 46	2-D Visual Design	3	Elective	
	COMM 1A BUS 208	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		

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

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Auto Body and Paint: Auto Paint CERTIFICATE OF ACHIEVEMENT

Recommended Course Sequence

	COURSE	UNITS	REQUIREMENT
FALL 1	AUTOB 30 Basic Methods of Paint Preparation and Equipment	10	Major
	MATH 225 Math for Technicians (or higher)	3	Major
Total Number of Units:		13	
SPRING 1	AUTOB 40 Advanced Study in Refinishing	10	Major
	AUTOB 16 Introduction to Automotive Plastic Parts Repair	2	Elective
Total Number of Units:		12	

AUTO BODY AND PAINT

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 collision-damaged 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-the-art 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