

CATALOG INFORMATION

Dept and Nbr: AUTO 108 Title: CLEAN AIR CAR COURSE
Full Title: Clean Air Car Course Basic & Enhanced
Last Reviewed: 9/21/2015

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	5.00	Lecture Scheduled	5.00	17.5	Lecture Scheduled	87.50
Minimum	5.00	Lab Scheduled	1.00	17.5	Lab Scheduled	17.50
		Contact DHR	0		Contact DHR	0
		Contact Total	6.00		Contact Total	105.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 175.00

Total Student Learning Hours: 280.00

Title 5 Category: AA Degree Applicable
Grading: Grade or P/NP
Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:
Formerly: AUTO 399.5

Catalog Description:
Bureau of Automotive Repair approved the Clean Air Car Course, which covers the smog check testing procedure for both the basic and enhanced area smog check. Fulfills the Bureau of Automotive Repair education qualification to take the smog check examination.

Prerequisites/Corequisites:

Recommended Preparation:
Min.9 units in Auto Electric and Tune-Up Engine Performance or one year of verifiable trade experience in auto electrical, tune-up/engine performance and emission control diagnosis and repair.

Limits on Enrollment:

Schedule of Classes Information:
Description: Bureau of Automotive Repair approved clean air car course, covers Smog Check testing procedure for both the Basic and Enhanced area smog check test. Fulfills the Bureau of Automotive Repair education requirement to qualify to take the smog check examination. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Min.9 units in Auto Electric and Tune-Up Engine Performance or one year of verifiable trade experience in auto electrical, tune-up/engine performance and emission control diagnosis and repair.

Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:
IGETC:	Transfer Area	Effective:	Inactive:
CSU Transfer:		Effective:	Inactive:
UC Transfer:		Effective:	Inactive:

CID:

Certificate/Major Applicable:

Not Certificate/Major Applicable

COURSE CONTENT

Outcomes and Objectives:

Students successfully completing this course will be able to:

1. Perform a Basic and Enhanced area smog check and perform all record keeping related to those tests.
2. Properly diagnosis emission failures.
3. Pass the Basic or Enhanced area smog check examination

Topics and Scope:

1. Review of emission control test procedure in Basic and Enhanced areas.
2. Emission control systems operation and service:
 - A. PCV systems.
 - B. EVAP system.
 - C. Spark control system.
 - D. TAC systems.
 - E. Catalytic converters.
 - F. EGR system.
 - G. AIS system.
3. Basic and Enhanced Smog check procedures.
 - A. Vehicle identification and data entry.
 - B. Emission control system identification and data entry
 - C. Basic area two speed tailpipe test.
 - D. Enhanced area ASTM dynamometer test.
 - E. Functional tests.
4. Laws related to technician licensing.

5. Laws related to Smog Check Station licensing.
6. Emission failure diagnosis.

Assignment:

Student will be required to keep a notebook of all BAR required assignment sheets and lab worksheets. The notebook will be graded for completeness and organization. In the lab students will be evaluated on their ability to properly perform Basic and Enhanced smog check procedures and correctly diagnosis emission failures.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Lab reports, Quizzes

Problem solving
5 - 10%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Lab Exercises

Skill Demonstrations
30 - 40%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice

Exams
35 - 45%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance, Notebook

Other Category
10 - 15%

Representative Textbooks and Materials:

TEXTS Bureau Of Automotive Repair Smog Check Manual, Revision 3, 1999