

**PALOMAR COLLEGE**  
**COURSE OUTLINE OF RECORD FOR**  
**DEGREE CREDIT COURSE**

Transfer Course    A.A. Degree applicable course  
(check all that apply)

**COURSE NUMBER AND TITLE:** At 215 Automotive Emission Control

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 80

**BASIC SKILLS REQUIREMENTS:** Appropriate language and computational skills.

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** None

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** AT 110 and AT 115

**SCOPE OF COURSE:**

Auto emission controls as prescribed by Federal Law and California Air Resources Board. Analysis and testing of emission controls will be presented. Study of current laws for state exam preparation.

**SPECIFIC COURSE OBJECTIVES:**

Students will be able to:

1. Diagnose and repair emission problems.
2. Complete requirements for California Bureau of Automobile Repair fir entry level into IM class which leads to qualified repair license
3. Apply principles of shop safety.

**CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

- I. History of Emissions
  - A. Natural
  - B. Man-Made
- II. State Standards
  - A. 1966-1970
    1. Air injection

- 2. Engine Modification
- 3. Exhaust Retro-Fit Systems
- III. Federal Standards
  - A. Pre 1975
  - B. Legislation of 1976 to present
- IV. Lab Experiences
  - A. Scope Analysis
  - B. Exhaust Testing
  - C. TAS Instruction
  - D. BAR letter Issued

**REQUIRED READING:**

State of California. MVPC Manual. Sacramento: State of California Publication, 1991.

Motor. Motor's Emission Repair Manual. Los Angeles: Motor Publication, 1990.

**SUGGESTED READING:**

State of California. Bureau of Automotive Repair Student Handbook. Sacramento: State of California Publication, 1990.

**REQUIRED WRITING:**

In addition to compiling a class notebook to consist of not less than 25 pages, students will complete scheduled class work, exams and written lab assignments from the Bureau of Automotive Repair workbook.

**OUTSIDE ASSIGNMENTS:**

**Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.**  
 Reading assignments are from the text. Students must apply for state mandated inspection and maintenance course and state MUPC license exams.

**INSTRUCTIONAL METHODOLOGY:**

**Check all that apply:**

- lecture
- laboratory
- lecture-laboratory combination
- directed study

**DISTANCE LEARNING:**

**This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.**

Yes  No

**If yes, check all that apply:**

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)

- \_\_\_\_\_ Two-Way Video Conferencing (Two-way interactive video and audio)
- \_\_\_\_\_ One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- \_\_\_\_\_ Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

**GRADING POLICY AND STANDARDS** (include methods of determining whether the stated objectives have been met by students):

- 10% Quizzes given weekly
- 20% Midterm examination half way through the semester
- 40% Final exam
- 30% Participation

**IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?**

Yes \_\_\_\_\_ No X Number of times course may be taken for credit: \_\_\_\_\_

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

**CONTACT PERSON: Steve Bertram x2566**

SIGNATURES ON FILE