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## Common Course Numbering System

### Searching Current Courses For Summer 2011

**Course:** ASE 260  
**Title:** Advanced Engine Diagnosis  
**Long Title:** Advanced Engine Diagnosis  
**Course Description:** Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors related to customer vehicles.  
**Min Credit:** 2  
**Max Credit:**

**Origin Notes:**

CCA

#### STANDARD COMPETENCIES:

- I. Interpret and verify customer concern
- II. Inspect engine assembly for fuel, oil, coolant and other leaks on customer vehicles.
- III. Diagnose unusual engine noise or vibration on customer vehicles.
- IV. Diagnose unusual exhaust color, odor, and sound on customer vehicles.
- V. Perform engine absolute (vacuum boost) manifold pressure tests on customer vehicles.
- VI. Perform cylinder power balance test, cylinder compression test and cylinder leakage test on customer vehicle
- VII. Diagnose engine mechanical, electrical, electronic fuel and ignition concerns with diagnostic equipment, in
- VIII. Prepare 5 gas analyzer and vehicle for testing, obtain readings and determine necessary action on customer
- IX. Diagnose the cause of excessive oil consumption, unusual engine exhaust color, odor, and sound on customer

#### TOPICAL OUTLINE:

- I. Engine Temperature Tests
  - A. Low idle speeds
  - B. Stumbling during acceleration
  - C. Hesitation during acceleration
  - D. Rough engine operation
  - E. Poor fuel economy
  - F. Higher than normal engine temperature
- II. Evaluating the Engine's Condition
  - A. High cylinder compression
  - B. Low cylinder compression
  - C. Excessive blow-by
  - D. Lack of power
  - E. Oil treatment/Engine flush
- III. Noise Diagnosis/Stethoscope Tests
  - A. Cold engine knock
  - B. Ring noise
  - C. Piston knock
  - D. Piston pin knock
  - E. Ridge noise
  - F. Rod bearing noise
  - G. Thrust or main bearing noise
  - H. Tappet noise
  - I. Detonation/Preignition
- IV. Engine Designs
  - A. Diesel Engine
  - B. Rotary Engine
  - C. Stratified Engine
  - D. Miller Cycle Engine
  - E. Electric Motors
  - F. Hybrid Vehicles

**Course Offered At:**

**Pueblo Community College PCC**  
RELEASE: 8.3