

# El Paso Community College

## Syllabus

### Part II

## Official Course Description

<b>SUBJECT AREA</b>	<u>Automotive Technology</u>
<b>COURSE RUBIC AND NUMBER</b>	<u>AUMT 2471</u>
<b>COURSE TITLE</b>	<u>Shop Service and Management</u>
<b>COURSE CREDIT HOURS</b>	<u>4            3    :    4</u> Credits      Lec    Lab

### I. Catalog Description

Provides students with shop management training and experience in customer relations, warranty provisions, service, salesmanship, organization and shop configuration. Covers general business practices and use of the flat rate manual. Places special emphasis on established business principles and preparation for employment in the automotive industry. Provides hands on experience in diagnostic and service repair procedures; and serves as a precursor for Automotive Service Excellence (ASE) exams and eventual automotive technician certification in chosen areas. **Prerequisites: AUMT 2413, AUMT 2425, and AUMT 2434. (3:4) Lab fee.**

### II. Course Objectives

- A. Unit I. Shop Safety
  - 1. Work safely in an automotive shop.
  - 2. Explain laws regarding hazardous materials in the shop.
  
- B. Unit II. Business Practices
  - 1. Demonstrate computer skills according to industry standards
  - 2. Write Work Orders.
  - 3. Use Flat Rate Manuals.
  - 4. Demonstrate efficient work habits.
  - 5. Interpret technical manuals.
  - 6. Identify proper tools and equipment for the job.
  
- C. Unit III. Customer Relations
  - 1. Listen to customer concern.
  - 2. Verify concern and recommend repair.
  - 3. Evaluate warranty provisions and advise customer.
  - 4. Demonstrate proper written and oral skills.
  - 5. Determine correct service interval and advise customer.
  
- D. Unit IV. Salesmanship
  - 1. Listen to customer concern
  - 2. Follow strategy-based diagnostic procedure.
  - 3. Justify repair. Identify worn, defective, unsafe, defective, or failed components.
  - 4. Explain necessity of repair or service to the customer.
  - 5. Close the sale.

- E. Unit V. Preventative Maintenance Service
  - 1. Inspect fluid levels, electrical system, belts, hoses, etc.
  - 2. Inspect vehicle control and safety systems.
  - 3. Change / flush fluids and filters.
  - 4. Use electronic and computerized test equipment.
  - 5. Use pressure gauges.
  - 6. Use proper tools and procedures.
  - 7. Verify repairs.
  - 8. Demonstrate proper use of vehicle lift.
  - 9. Maintain safe / clean environment.
  - 10. Obtain repair information and specs. from manuals and computers.
  - 11. Use wiring diagrams while diagnosing electrical problems.
  - 12. Use a strategy based diagnostic procedure while solving customer concerns.
  - 13. Document service or repair procedure on the Work Order or Lab Report.
  - 14. Compare actual time spent on a repair to flat rate time.
  - 15. Demonstrate efficiency from start to finish of the job.
  - 16. Explain brake liability issues.
  - 17. Perform general automotive service.
  
- F. Unit VI. Shop Organization
  - 1. Explain how to increase efficiency in the shop.
  - 2. Maintain a clean and neat work environment.
  - 3. Develop a mock Automotive Service Business.
  - 4. Design a floor plan for the business.
  - 5. Determine shop equipment cost for the business.
  
- G. Unit VII. Business Principles
  - 1. Explain why time is the only commodity for sale.
  - 2. Explain Flat Rate.
  - 3. Determine posted flat rate price.
  - 4. Compare posted rate and effective rate.
  - 5. Describe available hours.
  - 6. Describe billable hours
  - 7. Calculate parts to labor ratio.
  - 8. Determine technician efficiency.
  - 9. Determine technician proficiency.
  - 10. Explain how a business can make a profit.
  
- H. Unit VIII. Preparing for Employment
  - 1. Participate in formal training after employment
  - 2. Obtain ASE and other types of certifications.
  - 3. Demonstrate efficiency.
  - 4. Document repairs.
  - 5. Demonstrate communication skills.
  - 6. Recognize safety hazards.
  - 7. Identify medical emergency procedures.
  - 8. Interpret MSDS.
  - 9. Demonstrate a proper attitude.
  - 10. Prepare a portfolio of degrees, transcript, certificates, resume, etc.

### **III. THECB Learning Outcomes (WECM)**

Learning outcomes/objectives are determined by local occupational need and business and industry trends.

**IV. Evaluation**

- A. Unit Exams and written work count 40% of final grade.
- B. Lab performance counts 60% of final grade.
- C. Grading Scale
  - A = 90 - 100
  - B = 80 - 89
  - C = 70 - 79
  - D = 60 - 69
  - E = 60 - below

**V. Disability Statement (Americans with Disabilities Act [ADA])**

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

**VI. 6 Drop Rule**

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.