**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: AUTO 1100

Course Title: Introduction to Automotive Technology

Credit Hours: 3

Prerequisite: None

Division/Discipline: Workforce Training and Economic Development/Automotive Technology

Course Description: In this course students will explore and become acquainted with safety and environmental concerns, tools/equipment, electronic service information, workplace skills and career opportunities specific to the automotive repair industry.

# **INSTRUCTOR INFORMATION**

# **COLLEGE POLICIES**

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The college reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at disabilityservices@bartonccc.edu.

# **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

Introduction to Automotive Technology is the lead course to the Automotive Technology program.

# **ASSESSMENT OF STUDENT LEARNING**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

## Course Outcomes, Competencies, and Supplemental Competencies

1. Prepare a technician work order and estimate.
2. Identify customer complaint.
3. Determine needed maintenance/ repairs.
4. Prepare parts and labor estimate.
5. Document performed maintenance/repairs.
6. Utilize electronic repair information to identify vehicle maintenance and repair procedures.
7. Identify vehicle identification numbers, take appropriate action.
8. Identify manufacture service bulletins, take appropriate action.
9. Utilize specification and repair information during the process of maintaining or repairing an automobile.

1. Demonstrate industry recognized safety and environmental practices.
2. Identify shop safety hazards, take appropriate precautions/actions.
3. Identify environmental hazards, take appropriate precautions/actions.
4. Raise and support vehicle according to recognized standards.
5. Perform routine automotive maintenance and service.
6. Perform fluid and filter replacement.
7. Exchange fluids utilizing flush machines.
8. Perform wheel balance and tire replacement.
9. Perform accessory drive belt inspection/replacement.
10. Perform battery jump-start.
11. Perform vehicle safety inspection.
12. Devise a training and career plan.
13. Investigate automotive service jobs.
14. Explore careers through job shadow opportunities.
15. Assess work readiness/work ethics.
16. Identify career goals; devise training plan.
17. Prepare a job résumé.
18. Demonstrate knowledge of automatic transmissions and transaxle
19. Research applicable vehicle service information, fluid type, vehicle service history, service precautions, and technical service bulletins.
20. Check fluid level in a transmission or a transaxle equipped with a dipstick.
21. Check fluid level in a transmission or a transaxle not equipped with a dipstick.
22. Check transmission fluid condition, check for leaks.
23. **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

# **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

1. **METHODS OF INSTRUCTION AND EVALUATION**
2. **ATTENDANCE REQUIREMENTS**
3. **COURSE OUTLINE**