**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: AUTO 1130

Course Title: Service Techniques I

Credit Hours: 3

Prerequisite: AUTO 1100 Introduction to Automotive Technology

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

Course Description: Service Techniques I is a performance based course designed to provide practical work experience for first year automotive students. Projects that reinforce first semester coursework will receive highest consideration. Students who enroll in this course must provide their own tools.

# **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](mailto:disabilityservices@bartonccc.edu).

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

Service Techniques I provide students the opportunity to practice job related skills specific to automotive maintenance and service. This course follows the curriculum standards defined by NATEF (National Automotive Technicians Education Foundation.)

# **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. Develop job skills specific to automotive brake repair.

NATEF external standards 5.A.1 – 5.G.10

1. Inspect/analyze brake system; create estimate for repair.
2. Repair brake system; verify correct repair.
3. Document repairs and complete work order.

1. Develop job skills specific to automotive electrical repair.

NATEF external standards 6.A.1 – 6.E.4

1. Inspect/analyze battery and charging system; create estimate for repair.
2. Inspect/analyze lighting and accessory circuits; create estimate for repair.
3. Repair automotive electrical circuits; verify correct repair.
4. Document repairs and complete work order.
5. Develop job skills specific to steering and suspension repair.

NATEF external standards 4.A.1 – 4.F.11

1. Inspect/analyze steering and suspension systems; create estimate for repair.
2. Repair steering and suspension systems; verify correct repair.
3. Document steering/suspension repairs and complete work order.
4. Develop job skills specific to engine and engine performance repair.

NATEF external standards 1.A.1 – 1.D.14, 8.C.1 – 8.D.10

1. Inspect/analyze engine mechanical and performance problems; create estimate for repair.
2. Repair engine mechanical and engine performance problems; verify correct repair.
3. Document engine/engine performance repairs and complete work order.
4. Develop personal communication and time management skills.
5. Interview customer, document customer request.
6. Generate technician work order; document services to be performed.
7. Generate estimate and communicate needed service.
8. Cooperate with lab partner to determine individual responsibilities.
9. Document/communicate services performed; verify repair.

1. **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

# **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

# **METHODS OF INSTRUCTION AND EVALUATION**

# **ATTENDANCE REQUIREMENTS**

# **COURSE OUTLINE**