

## Master Syllabus

### AUT 1102 - Introduction to Automotive Service

**Division:** Science, Mathematics and Engineering

**Department:** Automotive Technology

**Credit Hour Total:** 0.5 - 2.0

**Lecture Hrs:** 1.0 **Lab Hrs:** 3.0

**Date Revised:** April 2013

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### Course Description:

Work assignment practices that are necessary for beginning automotive service technicians. Hand tool usage, correcting wind noise and water leaks, oil changes, tire rotations and balancing, new vehicle prep, used car inspection. Eye protection and hand tools are required.

### General Education Outcomes:

- Critical Thinking/Problem Solving Competency
- Written Communication Competency

### Course Outcomes:

#### Oil and filter change

Demonstrate how to change the engine oil and filter and perform a chassis lubrication.

**Assessment Method:** Performance appraisals

**Performance Criteria:**

Score 2 on a 0-4 rubric

#### Safe work habits

Apply safe work habits and work ethic principles.

**Assessment Method:** Behavioral observations

**Performance Criteria:**

Apply safety procedures correctly 100% of the time

**Assessment Method:** Locally developed exams

**Performance Criteria:**

90% of the students pass with a 70% correct responses on written exam

#### Entry level service tasks

Demonstrate entry level vehicle service tasks such as headlight aiming, windshield wiper blade and light bulb replacement and new vehicle prep.

**Assessment Method:** Performance appraisals

**Performance Criteria:**

Receive at least a 2 on a 0-4 rubric,

#### Tire changes

Demonstrate how to change a tire and reinstall the wheel using a torque wrench.

**Assessment Method:** Performance appraisals

**Performance Criteria:**

Score 2 on a 0-4 rubric

### Outline:

Safe shop practices and vehicle hoisting  
Repair order and VIN identification  
Engine oil change  
Tire balance mounting and rotating  
New vehicle preparation  
Hand tool and fastener usage and thread repair  
Wind noise and waterleak repair