AUT 1000 Automotive Fundamentals ............... 4 Credit Hours
Equivalent: AUT 1110
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Pre- or Corequisite: AUT 1000
This course covers how to identify and discuss major automotive systems, components and tools, using the correct terminology. The course will also explore the safe and efficient use of standard automotive tools and equipment during performance of basic automotive servicing procedures. Students will participate in discussions of various automotive employment opportunities and analyze the job entry requirements for each. Students are tested on the following Industry certifications: NC3-Precision Measuring Instruments; Battery Maintenance & Starting; ShopKey Pro Level 1; and Torque Theory, Mechanical, and Electrical.
BILLABLE CONTACT HOURS: 5

AUT 1100 Automotive Brake Systems Service .. 4 Credit Hours
Equivalent: ATA 1100
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Pre- or Corequisite: AUT 1000
This course will cover the skills required to properly service the hydraulic brake system, utilizing hands-on training and work experience on licensed vehicles, developing entry-level job skills. The student will rebuild or renew all components of current major automotive manufacturers' brake systems with an emphasis on safe and proper work habits and procedures.
BILLABLE CONTACT HOURS: 5

AUT 1200 Front Suspension & Steering Service ..... 4 Credit Hours
Equivalent: ATA 1200
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Pre- or Corequisite: AUT 1000
This course will develop the skills required to properly service the front suspension and steering system of current model vehicles. A great portion of class time will be spent in the lab rebuilding or renewing all components of the suspension and steering systems. Wheel alignment measurement and correction will be performed by all students on all major automotive equipment, with an emphasis on safe and proper work habits and procedures.
BILLABLE CONTACT HOURS: 5

AUT 1300 Automotive Electrical Systems Servicing ..... 4 Credit Hours
Equivalent: ATA 1300 | TEA 1160
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Pre- or Corequisite: AUT 1000 or consent of instructor.
This course will develop the skills required to service the battery, cranking system, charging system, and electrical accessories systems of all current major automotive manufacturers' vehicles. Theory of the systems as well as hands-on training will provide job entry-level job skills for the student. Current manufacturers' specifications as well as safe and proper work habits and procedures will be emphasized.

AUT 1350 Automotive Advanced Electrical and Electronics ... 4 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Prerequisite: AUT 1000 and AUT 1300
This course develops the skills required to diagnose and service electrical/electronic components. The student will be instructed through a variety of methodologies and instruction to promote discussions related to advanced theories and diagnosis. Advanced training aids and diagnostic tools will be used to enhance knowledge. Multiple vehicles and manufacturer systems will be utilized for advanced troubleshooting; as well as hands-on experience using licensed vehicles. The student will develop advanced-level job skills in diagnosing and repairing malfunctions in the vehicle systems, with an emphasis on safe and proper work practices and procedures.
BILLABLE CONTACT HOURS: 5

AUT 1375 Automotive Hybrid and Electric Vehicles ..... 4 Credit Hours
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Prerequisite: AUT 1000 and AUT 1300
This course provides an understanding of high voltage hybrid and electric vehicle designs, operation, and servicing. Students will learn the components and systems used in hybrid and electric vehicles including high voltage batteries, motor/generators, power inverters, and charging systems. Specialized high voltage tools and equipment will be introduced including high voltage insulation gloves, digital multimeters, and isolation test meters. Proper diagnosis and servicing procedures will be covered with an emphasis on safety, high voltage disabling and enabling, and loss of high voltage isolation handling.
BILLABLE CONTACT HOURS: 5

AUT 1400 Engine Support Systems Servicing ..... 4 Credit Hours
Equivalent: ATA 1400 | TEA 1110
English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).
Prerequisite: AUT 1000 and AUT 1300 or Consent of Instructor.
This course will develop the skills required to properly service the engine fuel, lubrication, cooling, exhaust and valve systems. A great portion of the class time will be spent in the laboratory performing tests, as well as repairing and renewing major components of the above named systems. The student will make adjustments, and replace components in accordance with manufacturers' specifications, with a major emphasis on developing safe and proper work habits and techniques.
BILLABLE CONTACT HOURS: 5
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