Automobile Servicing

Degrees

- Automobile Servicing (AUS.AAS) (http://catalog.oaklandcc.edu/programs/automobile-servicing/automobile-servicing-aas)

Certificates

- Automobile Servicing (AUS.CT) (http://catalog.oaklandcc.edu/programs/automobile-servicing/automobile-servicing-certificate)

Automotive Technology Courses (AUT)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Equivalent</th>
<th>Pre- or Corequisite</th>
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<tr>
<td>AUT 1000</td>
<td>Automotive Fundamentals</td>
<td>3</td>
<td>AUT 1110</td>
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<td></td>
<td>English/ESL Placement: Placement into ENG 1060 or higher (or placement into ESL 2510 or higher for students taking the ESL sequence of courses).</td>
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<tr>
<td>AUT 1100</td>
<td>Automotive Brake Systems Service</td>
<td>4</td>
<td>AUT 1100</td>
<td>AUT 1300 (Recommended).</td>
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<tr>
<td>AUT 1200</td>
<td>Front Suspension &amp; Steering Service</td>
<td>4</td>
<td>AUT 1200</td>
<td>AUT 1100 (Recommended).</td>
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<tr>
<td>AUT 1300</td>
<td>Automotive Electrical Systems Servicing</td>
<td>4</td>
<td>AUT 1350</td>
<td>AUT 1000 and AUT 1300 (Recommended).</td>
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<tr>
<td>AUT 1350</td>
<td>Automotive Advanced Electrical and Electronics</td>
<td>4</td>
<td>AUT 1300</td>
<td>AUT 1400 and AUT 1300; or Consent of Instructor.</td>
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<tr>
<td>AUT 1400</td>
<td>Engine Support Systems Servicing</td>
<td>4</td>
<td>AUT 1400</td>
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Prerequisite: AUT 1000 and AUT 1100
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
AUT 1500 Automotive Tune-Up & Emissions Service 4 Credit Hours

Equivalent: ATA 1500, TEA 1140

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
Pre- or Corequisite: AUT 1300 and AUT 1400 (Recommended).

This course will develop the skills required to properly tune an engine and diagnose the amount of emissions the engine produces. The student will also calibrate, make adjustments, and renew or replace components of the ignition and emission systems in accordance with the manufacturers’ specifications. The student will also diagnose drive-ability concerns related to engine performance and emissions. Current ignition analysis equipment as well as infrared and other emissions measuring devices and equipment will be used in a safe and proper manner. BILLABLE CONTACT HOURS: 5

AUT 1600 Automotive Transmission Servicing 4 Credit Hours

Equivalent: ATA 1600

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
Pre- or Corequisite: AUT 1300 (Recommended).

This course will develop the skills required to perform service operations on all current major automobile manufacturers’ automatic transmissions. A major portion of the class time will be spent in the laboratory performing tests, making adjustments, renewing or replacing various components of the transmissions. Manufacturer's specifications and procedures as well as safe and proper work habits will be greatly emphasized. BILLABLE CONTACT HOURS: 5

AUT 1700 Manual Transmission and Axle Service 4 Credit Hours

Equivalent: ATA 1700

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

This course will develop the skills required to service all current major automobile manufacturers' manual transmissions and rear axles. Servicing procedures will include diagnosis, removal and replacement, and rebuilding of the clutch, transmission, drive shaft and the rear axle. Manufacturers’ specifications and procedures as well as safe and proper work habits will be emphasized. BILLABLE CONTACT HOURS: 5

AUT 1800 Automotive Air Conditioning & Heating Service 4 Credit Hours

Equivalent: ATA 1800

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
Corequisite: AUT 1300 (Recommended).

This course will develop the skills required to service all major automobile manufacturers’ current model heating and air conditioning systems. Theory of the systems as well as work experience on licensed vehicles will be included. The student will develop entry-level job skills in diagnosing and repairing malfunctions in the systems, with an emphasis on safe and proper work habits and procedures. BILLABLE CONTACT HOURS: 5

AUT 2000 Cooperative Internship 3 Credit Hours

Equivalent: IND 1403, IND 1403

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: Completion of 24 Automotive (AUT) credits.
Prerequisite: Consent of Instructor.

The student will be employed in the automotive servicing industry in a supervised situation under the guidance of a coordinator. The student will identify and describe, through reports and position papers, technical problems encountered on the job. Students will complete a minimum of 135 hours. BILLABLE CONTACT HOURS: 3