### Schedule of Credit Classes - Fall 2011

**12/19/2011**

#### CRN  Instructor                  Days  Time  Room  D  CRN  Instructor                  Days  Time  Room  D

**Automotive - Auto, Lt Truck**

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
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</tr>
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<tbody>
<tr>
<td>20926</td>
<td>Bender, T.</td>
<td>MT</td>
<td>08:00 AM-10:05 AM</td>
<td>TE 103</td>
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</tr>
<tr>
<td>20929</td>
<td>Gonzalez, J.</td>
<td>WR</td>
<td>08:00 AM-10:15 AM</td>
<td>TE 103</td>
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<tr>
<td>20930</td>
<td>Mallory, R.</td>
<td>WR</td>
<td>01:30 PM-03:35 PM</td>
<td>TE 103</td>
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<tr>
<td>20931</td>
<td>Lipp, G.</td>
<td>TR</td>
<td>06:00 PM-08:05 PM</td>
<td>TE 103</td>
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<td></td>
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<td>TR</td>
<td>08:20 PM-09:45 PM</td>
<td>AA 101</td>
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**AUTO 101  Fundamentals of Automotive Service, Diagnosis and Repair**

- **5 Units**
- **Prerequisite:** AUTO 101.
- Strongly recommended: ENGL 099 or READ 099 if required by English placement exam or if required by English level. Also, MATH 130 or higher.
- Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. The course covers essential automotive technology, along with inspection, diagnosis, service, and repair of specific electrical systems including the battery, starting systems, charging systems, gauges, and instrument-panel warning lights. Prepares students for ASE Electrical & Electronic Systems (A6) certification. 68 lecture hours, 72 lab hours. CSU.

**AUTO 151  Engine Service, Diagnosis and Repair**

- **5 Units**
- **Prerequisite:** AUTO 101.
- Strongly recommended: ENGL 099 or READ 099 if required by English placement exam or if required by English level. Also, MATH 130 or higher.
- Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. The course covers engine service, inspection, diagnosis, service, and repair of specific engine systems including the engine, engine cooling, engine emissions, engine fuel, and engine lubrication. Preparates students for ASE Engine Repair (A1) certification. 54 lecture hours, 135 lab hours. CSU.

**AUTO 154  Chassis Service, Diagnosis, and Repair**

- **8 Units**
- **Prerequisite:** AUTO 101 and AUTO 166.
- Strongly recommended: ENGL 099 or READ 099 if required by English placement exam or if required by English level. Also, MATH 130 or higher.
- Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. The course covers essential chassis system theory, along with inspection, diagnosis, service, and repair of the following undercar systems: brake, steering, suspension, alignment, wheel/tire, ride control, and ABS. Course prepares students for ASE Suspension and Steering (A4) and ASE Brakes (A5) certification. 108 lecture hours, 135 lab hours. CSU.

**AUTO 156  Automotive Electrical & Electronic Systems I**

- **5 Units**
- **Prerequisite:** AUTO 101 or one year minimum industry experience based on departmental approval or related coursework.
- Strongly recommended: ENGL 099 or READ 099 if required by English placement exam or if required by English level. Also, MATH 130 or higher.
- Intended for those seeking a career in the automotive service and repair industry, this National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. This class covers essential electrical and electronic systems theory, along with inspection, diagnosis, service & repair of specific electrical systems including the battery, starting systems, charging systems, gauges, and instrument-panel warning lights. Preparers students for ASE Electrical & Electronic Systems (A6) certification. 68 lecture hours, 72 lab hours. CSU.

 Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626) 20938  Mallory, R.  MT  10:05 AM-12:10 PM  AA 101  08/27-12/17  20938  Mallory, R.  MT  12:30 PM-02:30 PM  TE 102  08/27-12/17  20938  Mallory, R.  MT  02:30 PM-04:40 PM  AA 101  08/27-12/17

**AUTO 162  Drivetrain Service, Diagnosis and Repair**

- **8 Units**
- **Prerequisite:** AUTO 101.
- Strongly recommended: ENGL 099 or READ 099 if required by English placement exam or if required by English level. Also, MATH 130 or higher.
- Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. This course covers essential drivetrain and transaxle systems theory, along with inspection, diagnosis, service, and repair of the following systems: engine control, transmission, and auxiliary emission controls. Preparers students for ASE Automatic Transmission and Transaxle (A2) and Manual Drive train and Axles (A3) certification exams. 108 lecture hours, 135 lab hours. CSU.

**AUTO 168  Engine Control Systems Service, Diagnosis and Repair**

- **8 Units**
- **Prerequisite:** AUTO 151 and AUTO 166.
- Strongly recommended: ENGL 099 or READ 099 if required by English placement exam or if required by English level. Also, MATH 130 or higher.
- Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians’ Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians’ Education Cooperative programs. The course covers essential engine management systems theory, along with inspection, diagnosis, service, and repair of the following systems: ignition, air and fuel delivery, electronic engine controls, and auxiliary emission controls. This course prepares students for ASE Engine Performance (A8) certification. 108 lecture hours, 135 lab hours. CSU.

**AUTO 230B  Automotive Service and Repair Work Experience B**

- **2 Units**
- **Recommended Skills:** AUTO 101, 151, 154, 156, 162, 166, 167 and 168 SLOs.
- Strongly recommended: Completion of 16 units in automotive technology coursework.
- Limitation on Enrollment: Department consent required prior to enrollment.
- Automotive technology work experience is designed to extend occupational learning through employment and coordinate the on-the-job training with program instruction. Individual student goals and learning objectives will be designed by the student cooperatively with the employer and faculty advisor.
- Lab hours are arranged and completed at the place of employment. This AUTO 230 course may be taken four times for a maximum of four units. Pass/No Pass grading only. 9 lecture hours, 320 lab hours. CSU.

**The lectures will meet on the following Wednesdays:**
- Sept. 7, Oct. 5, Nov. 9, Dec. 7
- 6:30pm - 9:50pm
- TE 105

NOTE: Course Dates indicate Beginning and Ending Dates.
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<tr>
<th>CRN</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>20944</td>
<td>Clark, J.</td>
<td>HRS-ARRG</td>
<td>08/27-12/17 06:30pm - 9:00pm</td>
<td>TE 105</td>
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</table>

**AUTO 230C Automotive Service and Repair Work**

- **3 Units**
- **Experience C**
- Recommended Skills: AUTO 101, 151, 154, 156, 162, 166, 167 and 168 SLOs.
- Strongly recommended: Completion of 16 units in automotive technology coursework.
- Limitation on Enrollment: Department consent required prior to enrollment.
- Automotive technology work experience is designed to extend occupational learning through employment and coordinate the on-the-job training with program instruction. Individual student goals and learning objectives will be designed by the student cooperatively with the employer and faculty advisor.
- Lab hours are arranged and completed at the place of employment. This AUTO 230 course may be taken four times for a maximum of four units. Pass/No Pass grading only.
- 9 lecture hours, 480 lab hours.

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<th>CRN</th>
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<tr>
<td>20945</td>
<td>Clark, J.</td>
<td>HRS-ARRG</td>
<td>08/27-12/17 06:30pm - 9:00pm</td>
<td>TE 105</td>
</tr>
</tbody>
</table>

**AUTO 230D Automotive Service and Repair Work**

- **4 Units**
- **Experience D**
- Recommended Skills: AUTO 101, 151, 154, 156, 162, 166, 167 and 168 SLOs.
- Strongly recommended: Completion of 16 units in automotive technology coursework.
- Limitation on Enrollment: Department consent required prior to enrollment.
- Automotive technology work experience is designed to extend occupational learning through employment and coordinate the on-the-job training with program instruction. Individual student goals and learning objectives will be designed by the student cooperatively with the employer and faculty advisor.
- Lab hours are arranged and completed at the place of employment. This AUTO 230 course may be taken four times for a maximum of four units. Pass/No Pass grading only.
- 9 lecture hours, 640 lab hours.

**AUTO 295 Engine Design**

- **4 Units**
- Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English level.
- A course designed to teach engine design principles and analysis of cylinder heads, cylinder blocks, crankshafts, piston and rings, connecting rods, camshaft, valve train systems. The course will also cover the design and tuning of intake and exhaust systems, turbocharging and supercharging and the use of basic and advanced engine design formulas. 72 lecture hours.
- 72 lecture hours.
- CSU

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<tbody>
<tr>
<td>21307</td>
<td>Korn, D.</td>
<td>MW</td>
<td>06:00 PM-09:00 PM</td>
<td>TE 105</td>
</tr>
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**AUTO 695D Special Topics: Automotive Technology**

- **3 Units**
- This course covers special and emerging topics not found in other courses within the discipline. Topics vary and are determined by the department. See the department for current term emphasis. May be taken four times regardless of the unit combination, however, no single subject, special topics class may be repeated. 54 lecture hours.

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<th>CRN</th>
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<tbody>
<tr>
<td>21240</td>
<td>Brown, D.</td>
<td>T</td>
<td>06:30 PM-09:40 PM</td>
<td>TE 105</td>
</tr>
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**AUTO 696D Special Topics: Automotive Technology**

- **1 Units**
- This course covers special and emerging topics not found in other courses within the discipline. Topics vary and are determined by the department. See the department for current term emphasis. May be taken four times regardless of the unit combination, however, no single subject, special topics class may be repeated. 54 lab hours.

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<th>CRN</th>
<th>Instructor</th>
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<th>Room</th>
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<tbody>
<tr>
<td>21241</td>
<td>Brown, D.</td>
<td>R</td>
<td>06:30 PM-09:40 PM</td>
<td>TD 121</td>
</tr>
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</table>

**AUTO 698A Cooperative Education**

- **1 Units**
- This student must be simultaneously enrolled in a class that relates to the Cooperative Education class.
- A course designed to assist students in planning and accomplishing meaningful learning objectives related to Automotive Technology at their place of volunteer employment or training sites. This course may be taken four times. 60 hours lab arranged.
- Department approval required prior to enrollment.
- Second Eight Weeks

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