

# Automotive Career Education PLAN



**GET YOUR AUTOMOTIVE CAREER  
IN GEAR AND MAKE A PLAN FOR  
THE FUTURE**

Cerritos College  
Automotive Technology  
Phone: (562) 860-2451 ♦ Ext. 3084  
[www.cerritos.edu/auto](http://www.cerritos.edu/auto)

# Automotive Career Education Sample Plan

| <b>Student Information</b>   | <b>Career and Educational Goal</b>   |                    |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
|--|--|--------------------|---|----------|--|---|----------|-----------------------------|---|----------|------------------------------------|---|----------|-------------------|---|----------|------------------------------------|---|----------|-----------------------------|---|----------|--------------------------------------|---|------|--|--|-----------------|--|--|---|
| <p>Name: Student Name</p> <p>Address: 11110 Alondra Blvd.<br/>City: Norwalk<br/>State: CA<br/>Zip: 90650</p> <p>Phone: (562) 860-2451</p> <p>E-mail: student@cerritos.edu</p>  | <ul style="list-style-type: none"> <li>• Get an A.A. Degree and certifications in the automotive field</li> <li>• Transfer to a 4 year college for a Bachelor's Degree (B.A.)</li> <li>• Become an ASE certified Master Technician within 4 years</li> <li>• Work as a technician for a reputable independent shop or dealership with hopes of going into service management and eventually opening my own shop</li> </ul> |                    |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| <b>Classes Need for Certification</b>  | <b>Plan to Get There</b>   |                    |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| <p><b><u>GENERAL TECHNICIAN</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">AUTO 110</td> <td style="width: 65%;">Automotive Engines</td> <td style="width: 20%; text-align: right;">5</td> </tr> <tr> <td>AUTO 120</td> <td>Automatic Transmissions and Transaxles</td> <td style="text-align: right;">5</td> </tr> <tr> <td>AUTO 130</td> <td>Manual Drivetrain and Axles</td> <td style="text-align: right;">5</td> </tr> <tr> <td>AUTO 140</td> <td>Automotive Steering and Suspension</td> <td style="text-align: right;">5</td> </tr> <tr> <td>AUTO 150</td> <td>Automotive Brakes</td> <td style="text-align: right;">5</td> </tr> <tr> <td>AUTO 160</td> <td>Introduction Automotive Electrical</td> <td style="text-align: right;">5</td> </tr> <tr> <td>AUTO 170</td> <td>Automotive Air Conditioning</td> <td style="text-align: right;">4</td> </tr> <tr> <td>AUTO 180</td> <td>Electronic Engine Management Systems</td> <td style="text-align: right;">5</td> </tr> <tr> <td colspan="2" style="text-align: right;">----</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>39 Units</b></td> <td></td> </tr> </table> | AUTO 110   | Automotive Engines | 5 | AUTO 120 | Automatic Transmissions and Transaxles | 5 | AUTO 130 | Manual Drivetrain and Axles | 5 | AUTO 140 | Automotive Steering and Suspension | 5 | AUTO 150 | Automotive Brakes | 5 | AUTO 160 | Introduction Automotive Electrical | 5 | AUTO 170 | Automotive Air Conditioning | 4 | AUTO 180 | Electronic Engine Management Systems | 5 | ---- |  |  | <b>39 Units</b> |  |  | <p>AUTO 110 – 1<sup>st</sup> Fall Semester</p> <p>AUTO 120 – 2<sup>nd</sup> Spring Semester</p> <p>AUTO 130 – 2<sup>nd</sup> Fall Semester</p> <p>AUTO 140 – 1<sup>st</sup> Spring Semester</p> <p>AUTO 150 – 1<sup>st</sup> Fall Semester</p> <p>AUTO 160 – 1<sup>st</sup> Spring Semester</p> <p>AUTO 170 – 2<sup>nd</sup> Spring Semester</p> <p>AUTO 180 – 2<sup>nd</sup> Fall Semester</p> |
| AUTO 110   | Automotive Engines   | 5                  |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| AUTO 120   | Automatic Transmissions and Transaxles   | 5                  |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| AUTO 130   | Manual Drivetrain and Axles  | 5                  |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| AUTO 140   | Automotive Steering and Suspension   | 5                  |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| AUTO 150   | Automotive Brakes  | 5                  |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| AUTO 160   | Introduction Automotive Electrical   | 5                  |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| AUTO 170   | Automotive Air Conditioning  | 4                  |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| AUTO 180   | Electronic Engine Management Systems   | 5                  |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| ----   |  |                    |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |
| <b>39 Units</b>  |  |                    |   |          |  |   |          |                             |   |          |                                    |   |          |                   |   |          |                                    |   |          |                             |   |          |                                      |   |      |  |  |                 |  |  |   |

# Automotive Career Education Plan

| <p style="text-align: center;"><b>Student Information</b></p> <p>Name: _____</p> <p>Address: _____</p> <p>City: _____</p> <p>State: _____</p> <p>Zip: _____</p> <p>Phone: (____) _____</p> <p>E-mail: _____</p>    | <p style="text-align: center;"><b>Career and Educational Goal</b></p> <ul style="list-style-type: none"> <li>• _____<br/>_____</li> <li>• _____<br/>_____</li> <li>• _____<br/>_____</li> <li>• _____<br/>_____</li> </ul>  |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|---|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <p style="text-align: center;"><b>Classes Need for Certification</b></p> <p>List Classes:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> | <p style="text-align: center;"><b>Plan to Get There</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%; text-align: left;">Class</th> <th style="width: 30%; text-align: left;">Semester</th> </tr> </thead> <tbody> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> </tbody> </table> <p style="text-align: center;"><b>Counselor Appointment</b></p> <p>Counselor Name: _____</p> <p>Date: _____</p> <p>Time: _____</p> | Class | Semester | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Class  | Semester  |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| _____  | _____   |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |



# Cerritos College

## AUTOMOTIVE MECHANICAL REPAIR TECHNOLOGY CERTIFICATES OF ACHIEVEMENT

### GENERAL TECHNICIAN

|          |  | UNITS |
|----------|--|-------|
| AUTO 110 | Automotive Engines                     | 5     |
| AUTO 120 | Automatic Transmissions and Transaxles | 5     |
| AUTO 130 | Manual Drivetrain and Axles            | 5     |
| AUTO 140 | Automotive Steering and Suspension     | 5     |
| AUTO 150 | Automotive Brakes                      | 5     |
| AUTO 160 | Introduction Automotive Electrical     | 5     |
| AUTO 170 | Automotive Air Conditioning            | 4     |
| AUTO 180 | Electronic Engine Management Systems   | 5     |
|          |  | —     |
|          |  | 39    |

### MANUFACTURE SPECIALTY

|          |  | UNITS |
|----------|--|-------|
| AUTO 73  | Work Experience                            | 15    |
| AUTO 111 | Automotive Engines                         | 4     |
| AUTO 121 | Drivetrain Transmissions and Axles         | 6     |
| AUTO 151 | Automotive Alignment, Brake and Suspension | 6     |
| AUTO 161 | Automotive Electricity                     | 7     |
| AUTO 179 | Automotive Air Conditioning                | 4     |
| AUTO 181 | Electronic Engine Management Systems       | 6     |
|          |  | —     |
|          |  | 48    |

### ELECTRICAL/DIAGNOSIS TECHNICIAN

|          |                                       | UNITS |
|----------|---------------------------------------|-------|
| AUTO 160 | Introduction to Automotive Electrical | 5     |
| AUTO 170 | Automotive Air Conditioning           | 4     |
| AUTO 180 | Electronic Engine Management Systems  | 5     |
| AUTO 260 | Intermediate Automotive Electrical    | 4     |
| AUTO 265 | Advanced Automotive Electrical        | 1     |
| AUTO 280 | Diagnostic Engine Performance         | 4     |
|          |                                       | —     |
|          |                                       | 23    |

### ALTERNATIVE FUELS SERVICE TECHNICIAN

|          |                                       | UNITS |
|----------|---------------------------------------|-------|
| AUTO 54  | Introduction to Electric Vehicles     | 4     |
| AUTO 55  | Advanced Technology Electric Vehicles | 4     |
| AUTO 109 | Automotive Diesel Systems             | 5     |
| AUTO 182 | Introduction to Alternative Fuels     | 3.5   |
| AUTO 183 | Compressed Natural Gas Engines        | 4     |
|          |                                       | —     |
|          |                                       | 20.5  |

### ENGINE/MACHINING TECHNOLOGY

|          |  | UNITS |
|----------|--|-------|
| AUTO 101 | Automotive Service Tools and Equipment | 4     |
| AUTO 110 | Automotive Engines                     | 5     |
| AUTO 210 | Automotive Machine Shop                | 5     |
| AUTO 211 | High Performance Engines               | 5     |
| AUTO 212 | Advanced High-Performance Engines      | 1     |
|          |  | —     |
|          |  | 20    |

### AUTOMOTIVE MANAGEMENT

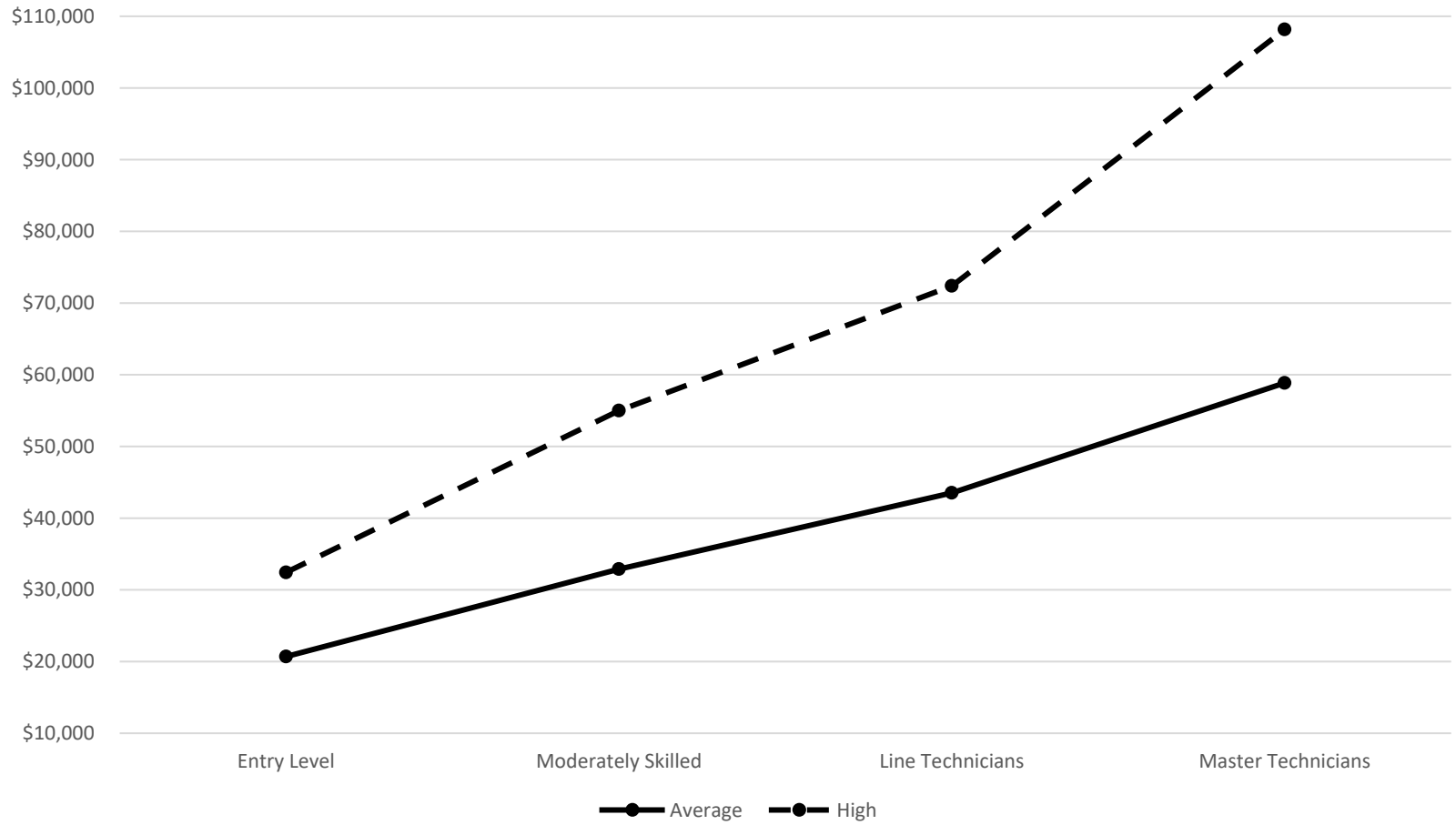
|          |   | UNITS |
|----------|---|-------|
| AUTO 100 | Automotive Maintenance and Operation      | 4     |
| AUTO 190 | Automotive Management                     | 3     |
| AUTO 193 | Automotive Service Information Management | 3     |
| AUTO 194 | Retailing Automotive Service              | 3     |
| AUTO 195 | Automotive Customer Relations             | 3     |
|          |   | —     |
|          |   | 16    |

### ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

The completion of 60 units to include:

- 1) Courses for completion of an Automotive Certificate option.
- 2) General Education course requirements.
- 3) Electives as needed.

### WHAT DO TECHNICIANS EARN?



## AUTOMOTIVE MECHANICAL REPAIR COURSES

| Course   | Course Name   | Fall                                | Spring                              | Summer                              |
|----------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Auto 54  | Intro to Electric Vehicle                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Auto 55  | Advanced Technology Electric Vehicle                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 80  | BAR ASE Alternative Courses for Adv. Emissions Specialist | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Auto 100 | Maintenance and Operation                                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Auto 101 | Auto Service Tools & Equipment                            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 105 | Hydraulics and Pneumatics                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Auto 107 | Diesel Exhaust Emission Control and Servicing             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 109 | Automotive Diesel Systems                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Auto 110 | Automotive Engines  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 120 | Automatic Transmissions/Transaxles                        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 130 | Manual Drive Train and Axles                              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 140 | Automotive Steering and Suspension                        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 150 | Automotive Brakes   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 155 | Medium/Heavy Duty Brake Systems                           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 160 | Automotive Electrical                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 170 | Automotive Air Conditioning                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 180 | Electronic Engine Management Systems (Fuel Sys)           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Auto 182 | Intro to Alternative Fuels                                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 183 | Compressed Natural Gas Engines                            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 190 | Automotive Management                                     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 193 | Automotive Service Information Management                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Auto 194 | Retailing Automotive Service                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 195 | Automotive Customer Relations                             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Auto 210 | Automotive Machine Shop                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Auto 211 | Advanced Engines  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 212 | Automotive Specialty                                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 260 | Advanced Electrical Systems (was Body Electrical)         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 265 | Advanced Automotive Electrical                            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Auto 280 | Diagnostic Engine Performance                             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Auto 281 | Emission Control Systems-1997 Standards                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

**\*The above classes are offered in the semesters shown (x). However, the Department reserves the right to change the schedule without prior notice.**