DEGREE AS AWARDED ON TRANSCRIPT
Associate of Applied Science, Automotive Management or Associate
of Applied Sciences in Automotive Technology in Electronics and
Diagnostics (TED)

PROGRAM DESCRIPTION
The Automotive Technology program emphasizes educating students
as multi-skilled workers with the ability to complete a variety of tasks
within the automotive technology service and repair setting. Coursework
includes technical skills in computer applications, electrical, electronic,
mechanical, hydraulic and network systems, both in theory as well as
hands-on training. A self-paced method of instruction is offered for the
entry-level courses. Communication skills are also highly emphasized
throughout each program.

Both the AAS degree and certificate option enable students to enter
the transportation industry as an automotive technician and/or middle
management. Entry into the program at the beginning of each term
is possible by meeting course prerequisites or receiving the instructor’s
permission. The Automotive Technology program is certified by the
National Automotive Technicians Education Foundation (NATEF). The
program is approved for veterans’ training.

The following courses are required for COCC’s AAS in Automotive
Technology degree. Students should work closely with an advisor if they
wish to attend part time. Note that several of the courses qualify students
to also earn short-term certificates in various automotive technology
areas. See the Automotive Technology certificates on the following pages.

Students are expected to supply their own hand tools. A list is available
from program instructors. Approximate cost of required tools and working
clothes is $1,700 to $2,700. The College provides any needed specialized
tools and equipment for use in courses.

It is recommended that the ASE (Automotive Service Excellence)
certification test be taken as the student completes the program.
Pretesting for ASE Certification and ASE Test Prep courses will be
made available.

COST OF PROGRAM
In addition to standard tuition, student fees and textbooks, students
should anticipate the following estimated program costs:
- Program fee of $15 per required automotive course or course fee of
  $200 per automotive advanced course (AUT 260 and above)
- Materials (coveralls, safety glasses, work jacket, safety shoes,
t-shirts): $200
- ASE (Automotive Service Excellence) Certification – up to $450 total
  for all eight areas of testing
- Cost of tools: $1,500 to $2,500 depending on the source

Program Preparation and Prerequisites
In preparation for taking advanced program (AUT) courses:
- High school diploma or GED (recommended)
- Students completing the Automotive Technology program may have to
  pass criminal history checks (CHC) and/or drug test and hold a valid
  Oregon driver’s license as a condition of their employment.
- Students must take the following automotive basic skills courses
  (10 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 101</td>
<td>Basic Electricity for Automotive</td>
<td>2</td>
</tr>
<tr>
<td>AUT 106</td>
<td>Automotive Program Orientation</td>
<td>1</td>
</tr>
<tr>
<td>AUT 107</td>
<td>Mechanical Systems I</td>
<td>3</td>
</tr>
<tr>
<td>AUT 109</td>
<td>Mechanical Systems II</td>
<td>1</td>
</tr>
<tr>
<td>AUT 110</td>
<td>Small Gas Engines</td>
<td>3</td>
</tr>
</tbody>
</table>

PROGRAM STANDARDS
All required courses must be completed at a “C” grade or better and
graduates must have an overall 2.0 GPA or higher. Students who do not
meet this standard may be dismissed from the program.

REGISTRATION INFORMATION
Program (AUT) courses begin every term, including summer. Expect
to start with 10 credits of basic skills courses in addition to a required
math or writing course. Some AUT courses offered each term must be
taken together and sequentially. Full-time students are discouraged from
working more than 15 hours each week due to a heavy course load.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE
REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO
OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION
The Automotive Technology program is certified by the National
Automotive Technicians Education Foundation (NATEF). This certification
requires that students complete 1,080 hours of training, which applies
upon graduation. Often only selected credits are considered transferrable
to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS

AUTOMOTIVE MANAGEMENT

YEAR ONE

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>AUT 101 Basic Electricity for Automotive</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>AUT 106 Automotive Program Orientation</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>AUT 107 Mechanical Systems I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AUT 109 Mechanical Systems II</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>AUT 110 Small Gas Engines</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WR 121 Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td>Winter</td>
<td>AUT 102 Automotive Electric I</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>AUT 103 Automotive Electric II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>AUT 105 Diesel Performance I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>AUT 205 Engine Performance I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MTH 060 Algebra I (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Spring</td>
<td>AUT 104 Automotive Electric III</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>AUT 111 Computerized Engine Controls</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>AUT 206 Engine Performance II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>BA 101 Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CIS 120 Computer Concepts or</td>
<td>0-4</td>
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<tr>
<td></td>
<td>Computer Competency Test</td>
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<tr>
<td>Summer</td>
<td>AUT 204 Steering and Suspension</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AUT 216A* Co-op Work Experience-Automotive</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>or AUT 216B*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUT 253 Automotive Air Conditioning</td>
<td>3</td>
</tr>
</tbody>
</table>

* Automotive CWE may be taken after 24 credits of automotive courses
  in addition to the basic skills courses, including summer. Students may
  not enroll in CWE without first being cleared by an instructor.

Exceptions are based on individual student goals.
CENTRAL OREGON COMMUNITY COLLEGE 2017–2018

PROGRAM DESCRIPTIONS

AUTOMOTIVE TECHNOLOGY – AUTOMOTIVE MANAGEMENT

Associate of Applied Science (AAS) Degree

102-107 credits

YEAR TWO

Fall term
AUT 201 Automotive Engines 4
AUT 208 Automotive Brakes 3
BA 111 Applied Accounting I 3
BA 206 Management Fundamentals I 4
HHP 252A Fitness/First Aid 3

Winter term
AUT 202 Manual Drive Trains I 3
AUT 203 Manual Drive Trains II 3
AUT 251 Automatic Transmissions I 3
AUT 256 Automatic Transmissions II 2
BA 178 Customer Service 3

Spring term
AUT 112 Basic Engine Performance I 1
AUT 113 Basic Engine Performance II 1
AUT 114 Welding for Automotive Trade 3
BA 223 Marketing Principles I 4
BA 280 Co-op Work Experience Business 3
BA 286 Managing Business Processes 4
or BA 250 Entrepreneurship

AUTOMOTIVE TECHNOLOGY – ELECTRONICS AND DIAGNOSTICS – (OPTION)

98-102 credits

Heavy emphasis will be placed on the following three areas: Hybrid Electric Vehicles (HEV)/Electric Vehicles (EV), clean diesel and on-board vehicle networking. The title places emphasis on the ever-advancing electronics that are contained on all current vehicles, clearly stating the intent of the degree. This degree is an addition to our current Master Automotive Technician Certificate and Automotive Engine Performance Certificate with emphasis on the electrical/electronic portions of the automotive industry.

PROGRAM REQUIREMENTS

YEAR ONE

Fall term
AUT 101 Basic Electricity for Automotive 2
AUT 106 Automotive Program Orientation 1
AUT 107 Mechanical Systems I 3
AUT 109 Mechanical Systems II 1
AUT 110 Small Gas Engines 3
MTH 060 Algebra I (or higher) 4

Winter term
AUT 102 Auto Electric I 5
AUT 103 Auto Electric II 2
AUT 104 Automotive Electric III 2
AUT 205 Engine Performance I 2
CIS 120 Computer Concepts 0-4
or Computer Competency Test

Spring term
AUT 111 Computerized Engine Controls 5
AUT 206 Engine Performance II 2
CIS 131 Software Applications 4
WR 121 Academic Composition 4

Summer term
AUT 105 Diesel Performance I 2
AUT 216A* Co-op Work Experience 4
or AUT 216B*
AUT 253 Automotive Air Conditioning 3

YEAR TWO

Fall term
First year program prerequisites met
AUT 260 Diesel Performance II 4
General Education Discipline Studies course 3
GS 104 Physical Science: Physics 4
MFG 100 MATC Orientation (MATC – Redmond) 1
MFG 118 Fluid Power Systems I (MATC – Redmond) 2

Winter term
AUT 270 Automotive Controller Systems I 4
AUT 280 Hybrid Electric Vehicle I (HEV) 4
General Education Discipline Studies course 3
Human Relations course 3

Spring term
AUT 271 Automotive Controller Systems II 4
AUT 281 Hybrid Electric Vehicle II (HEV) 4
BA 178 Customer Service 3
General Education Discipline Studies course 3
Health Class 3
Recommend: HHP 243 or HHP 252A

Summer term
AUT 216A* Dealership CWE/Clean Diesel/Hybrid 4
or AUT 216B*
* Automotive CWE may be taken after 24 credits of automotive courses in addition to the basic skills courses, including summer. Students may not enroll in CWE without first being cleared by an instructor. Exceptions are based on individual student goals.