Do you want to become an automotive service and repair technician? The Automotive Technology program emphasizes technical training and development of skills through the study of the various systems of the automobile. The certificate programs have been designed to be completed in one year and the degree program in two years, and they offer training for auto body repair and auto machine shop, including courses in auto heating and air conditioning, welding, general education courses, and Cooperative Work Experience. Students in the degree program must attend full time.

The instruction, course of study, facilities, and equipment of the Automotive Technology program have been evaluated by the National Automotive Technicians Education Foundation (NATEF), and meet the National Institute for Automotive Service Excellence (ASE) Standards of Quality for the training of automobile technicians in all eight automotive specialty areas (Master Certification).

To help you work effectively with people, the program also includes written and oral communications classes and general education electives. The curriculum emphasizes related scientific, mathematical, and general mechanical principles.

Total required credit may vary due to three to four credit conversion. Chemeketa degree and certificate minimum requirements must be met.

Program outcomes

Students completing the Automotive Body Repair certificate will:

- Perform tasks related to collision repair, painting, brakes, electrical/electronic systems, suspension and steering, and heating and air conditioning systems.
- Analyze, diagnose and perform repairs related to auto body systems in I-CAR specialty areas.
- Identify and use tools, testing and measuring equipment required to perform automotive body repair.
- Perform personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment and handling, storage and disposal of chemicals in accordance with local, state, and federal safety and environmental regulations.
- Practice professional and ethical behaviors as applied to the workplace environment.
- Use industry standard automotive terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers.

Students completing the Automotive Entry Level Technician certificate will:

- Perform tasks related to electrical/electronic systems, suspension and steering and heating and air conditioning.
- Analyze, diagnose and perform repairs related to electrical/electronic systems, suspension and steering and heating and air conditioning.
- Identify and use tools, testing and measuring equipment required to perform diagnosis and repairs to electrical/electronic systems, suspension and steering and heating and air conditioning.
- Perform personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment and handling, storage and disposal of chemicals in accordance with local, state, and federal safety and environmental regulations.
- Practice professional and ethical behaviors as applied to the workplace environment.
- Use industry standard automotive terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers.

Students completing the Automotive Machining certificate will:

- Perform tasks related to engine repair and engine machining.
- Analyze, diagnose and perform repairs related to engine repair and engine machining in the Automotive Service Excellence areas.
- Identify and use tools, testing and measuring equipment required to perform automotive machining operations.
- Perform personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment and handling, storage and disposal of chemicals in accordance with local, state, and federal safety and environmental regulations.
- Practice professional and ethical behaviors as applied to the workplace environment.
- Use industry standard automotive terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers.

Students completing the AAS will:

- Perform tasks related to brakes, electrical/electronic systems, engine performance and repair, suspension and steering, automatic transmissions and transaxles, heating and air conditioning systems, and manual drive train and axles.
- Analyze, diagnose, and repair automotive components and systems in the Automotive Service Excellence areas.
- Identify and use appropriate tools and testing and measuring equipment required to perform automotive service.
• Comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; and handling, storage, and disposal of chemicals in accordance with local, state, and federal safety and environmental regulations.
• Practice professional and ethical behaviors as applied to the workplace environment.
• Use industry standard automotive terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers.

Getting started
The Automotive AAS degree, and the Auto Body Repair and Automotive Machining certificate programs have special admission requirements and enrollment limits. The first step to entering this program is to take the college’s free placement test and meet with Counseling and Career Services staff, 503.399.5120. There are entry-level expectations for skill levels in reading, writing, and mathematics. Your advisor will help you develop an individualized program of study, which may include one or more of the following:

- MTH020 Basic Mathematics ............................................. 4
- RD090 College Textbook Reading ................................... 3
- WR080 Basic Writing ...................................................... 4

If you have questions about the requirements, contact Counseling and Career Services at 503.399.5120 or 503.399.5210. Failure to be assessed may delay your entry into program classes.

For admission to the program, an application is required. This is a separate step from the testing and assessment steps. Applications are available in Counseling and Career Services, Admissions, and the Automotive program staff office in Building 4, Room 292. Enrollment in these programs is limited, and there is an early deadline for applications. All applicants must attend the Automotive Technology Orientation as a prerequisite for acceptance into the program. We recommend that you contact Counseling and Career Services at 503.399.5120, or the Automotive Technology program chair at 503.399.6521, for details if you are considering the Automotive Technology degree, or Auto Body Repair, Automotive Machining, or Automotive Entry Level Certificate programs. To enroll, you must have a high school diploma or GED certificate.

You may be interested in our Cooperative Work Experience program, which allows you to earn college credit for work you do relating to your program. To be eligible for on-site Cooperative Work Experience, students must maintain a 2.50 or higher GPA in Automotive Technology courses. With the approval of the program chair, you may enroll in AUM280B-L Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

Automotive Technology
Automotive Body Repair Certificate of Completion
In addition to tuition, estimated costs for students who complete the entire program listed below are books, $305; class fees, $162; universal fee, $376; equipment and supplies, $1,800. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a Certificate of Completion by successfully completing the required 48 credit hours with a grade of “C” or better in AUM courses.

General Education requirements (13 credit hours):
Course | Title | Credit Hours
--- | --- | ---
COM051 | Communications Skills 1+ | 3
WR121 | English Composition–Exposition+ (or higher) | 4
CIS101 | Introduction to Microcomputer Applications (or higher) | 3
MTH052 | Introduction to Algebra and Geometry+ (or higher) | 3
PSY104 | Psychology in the Workplace+ | 4
PSY101 | Psychology of Human Relations+ (or higher) | 4

Automotive Body core requirements (20 credit hours):
AUM168 | Automotive Electrical Systems 1 | 5
AUM184 | Automotive Materials and Resources | 1
AUM280L | Cooperative Work Experience | 12
WLD097 | Welding | 2
WLD061 | Basic Gas Metal Arc Welding (MIG) | 3

Automotive Body Repair electives
(select a minimum of 15 credit hours):
AUM151 | Basic Automotive Engines | 5
AUM157 | Automotive Brake Systems | 6
AUM158 | Automotive Steering and Suspension | 5
AUM286 | Automotive Heating and Air Conditioning | 5

+Meets related instruction requirement, see page 43. For subject areas, see page 55.

Automotive Technology
Automotive Entry Level Technician Certificate of Completion
This certificate provides students with basic skills in key high-demand automotive repair and maintenance systems, including brakes, electrical, suspension, steering, and climate control. The program is designed to allow students with full-time employment or other daytime commitments the ability to attend classes and obtain a certificate in a one-year period. (There are no prerequisites or special application requirements for admission to this program.)

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $352; class fees, $98; universal fee, $216. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a Certificate of Completion by successfully completing the required 28 credit hours with a grade of “C” or better in AUM courses.

General Education requirements (10 credit hours):
Course | Title | Credit Hours
--- | --- | ---
COM051 | Communication Skills 1+ | 3
MTH052 | Introduction to Algebra and Geometry+ (or higher) | 3
PSY104 | Psychology in the Workplace+ (or higher) | 4
PSY101 | Psychology of Human Relations+ (or higher) | 4
Automotive Entry Level Technician core requirements (18 credit hours):
AUM159 Automotive Chassis Systems ........................................5
AUM168 Automotive Electrical Systems 1 ....................................5
AUM286 Automotive Heating and Air Conditioning ....................5
AUM280C Cooperative Work Experience ................................3

Automotive Technology
Automotive Machining Certificate of Completion
This certificate emphasizes machining and rebuilding automotive engines. A significant portion of the training is done on the job as well as through specific training on campus.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $290; class fees, $240; universal fee, $448; equipment and supplies, $1,800. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a Certificate of Completion by successfully completing the required 57 credit hours with a grade of “C” or better in AUM courses.

General Education requirements (13 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM051</td>
<td>Communication Skills 1+</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WR121</td>
<td>4</td>
</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry+ (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>PSY101</td>
<td>4</td>
</tr>
</tbody>
</table>

Automotive Machining core requirements (44 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUM151</td>
<td>Basic Automotive Engines</td>
<td>5</td>
</tr>
<tr>
<td>AUM184</td>
<td>Automotive Materials and Resources</td>
<td>1</td>
</tr>
<tr>
<td>AUM185A</td>
<td>Automotive Machining Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AUM186A</td>
<td>Automotive Lathe Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AUM187A</td>
<td>Automotive Milling Machine Processes</td>
<td>3</td>
</tr>
<tr>
<td>AUM188</td>
<td>Auto Machine Shop–Upper Engine</td>
<td>3</td>
</tr>
<tr>
<td>AUM189</td>
<td>Auto Machine Shop–Lower Engine</td>
<td>3</td>
</tr>
<tr>
<td>AUM190</td>
<td>Auto Machine Shop–Engine Assembly</td>
<td>3</td>
</tr>
<tr>
<td>AUM253</td>
<td>Automotive Engines 2</td>
<td>4</td>
</tr>
<tr>
<td>AUM280L</td>
<td>Cooperative Work Experience</td>
<td>12</td>
</tr>
<tr>
<td>WLD077</td>
<td>Welding Processes</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 43. For subject areas, see page 55.

Automotive Technology Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $900; class fees, $618; universal fee, $856; equipment and supplies, $1,800. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an Associate of Applied Science degree by successfully completing these 103 required credit hours with a grade of “C” or better in AUM courses.