The Automotive Program prepares students for a wide range of careers in a fast-growing, rapidly changing industry. The demand for skilled, educated, and honest professionals continues to intensify as the complexity of the modern automobile increases. As a result, our graduates are highly sought after and well-compensated. Since every household and business in America is affected by the transportation industry, career opportunities are plentiful.

The Automotive Program offers two degree programs:

- **B.S. in Automotive Technology Management (4 yr - #411)**
  This degree prepares graduates for career opportunities such as service technician, automotive service manager, fleet manager, service advisor, manufacturer representative, business owner or entrepreneur, teacher, and manufacturer service engineer.

- **A.A.S. in Automotive Technology (2 yr - #346)**
  This degree prepares students for a career as an automotive technician or a related position.

Automotive courses: Department classes are “hands-on” and interactive. Much of the required course time is spent in labs, working on vehicles with real problems. BYU-Idaho’s automotive facility is well equipped with state-of-the-art equipment where students can experience the latest technology and leave well-prepared to begin a successful career.

Business Management courses: Along with the automotive technical courses, four-year students take business management courses that prepare them to compete in the automotive business world. These courses are taught by business professors. The combination of both technical and business skills presents graduates with numerous opportunities in the automotive industry.

Internships are required and allow students to gain industry experience as part of their training. They provide an opportunity to enhance the knowledge learned in the classroom.

Elective courses: The Automotive Program also offers elective classes to non-majors where they learn consumer awareness and basic automotive maintenance skills. These courses are open to all university students.

Special costs: A lab fee of $60 per semester is required for automotive courses only. This fee provides coveralls, shop towels, and the cleaning of these items. Majors are expected to have at least a basic set of hand tools and a DVOM (digital volt/ohm meter). See the tool list link on the program website.

GPA requirements: In order to qualify for graduation with either automotive degree, students must earn at least a ‘C’ grade or higher in their major coursework.
# AAS in Automotive Technology (346)

**Take required Foundations courses**

**Major Requirements**

*No Double Counting of Major Courses - No Grade Less Than C*

<table>
<thead>
<tr>
<th>Take these courses:</th>
<th>Take 1 course:</th>
<th>Take this course:</th>
<th>Program Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 155 4</td>
<td>ME 105 4</td>
<td>PH 101 4</td>
<td></td>
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<tr>
<td>AUTO 165 4</td>
<td>ME 131 2</td>
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<tr>
<td>AUTO 221 3</td>
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<td>Optional course</td>
<td>AUTO 291 0.5</td>
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<td>AUTO 225 6</td>
<td>AUTO 221 3</td>
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<td>AUTO 235 6</td>
<td>AUTO 225 3</td>
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<td>AUTO 250 6</td>
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<td>AUTO 265 6</td>
<td>AUTO 250 3</td>
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<tr>
<td>AUTO 298 1</td>
<td>AUTO 265 3</td>
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<td>AUTO 340 3</td>
<td>AUTO 298 3</td>
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<tr>
<td>AUTO 380 6</td>
<td>AUTO 340 3</td>
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</tbody>
</table>

**Total Major Credits=54**

This major is available on the following tracks:

- Fall-Winter---- YES
- Winter-Spring---- YES
- Spring-Fall---- NO

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# BS in Automotive Management (411)

**Take required Foundations courses**

**Major Requirements**

*No Double Counting of Major Courses - No Grade Less Than C*

<table>
<thead>
<tr>
<th>Take these courses:</th>
<th>Take 1 course:</th>
<th>Take this course:</th>
<th>Program Notes:</th>
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</thead>
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<tr>
<td>AUTO 155 4</td>
<td>ACCTG 180 3</td>
<td>ME 105 4</td>
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<tr>
<td>AUTO 165 4</td>
<td>AUTO 298 1</td>
<td>ME 131 2</td>
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<td>AUTO 221 3</td>
<td>B 364 3</td>
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<td>AUTO 225 6</td>
<td>CIT 140 3</td>
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<td>AUTO 235 6</td>
<td>ECON 112 3</td>
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<td>AUTO 250 6</td>
<td>FDMAT 221 3</td>
<td>B 220 3</td>
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<td>AUTO 265 6</td>
<td>FDMAT 221 3</td>
<td>B 275 3</td>
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<td>AUTO 298 1</td>
<td>AUTO 265 3</td>
<td>B283 3</td>
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<td>AUTO 340 3</td>
<td>AUTO 298 3</td>
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<tr>
<td>AUTO 380 6</td>
<td>AUTO 340 3</td>
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</table>

**Total Major Credits=78**

This major is available on the following tracks:

- Fall-Winter---- YES
- Winter-Spring---- YES
- Spring-Fall---- NO
# Automotive Pre-approved Clusters

<table>
<thead>
<tr>
<th>Automotive Technology</th>
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<tbody>
<tr>
<td><strong>Take these courses:</strong></td>
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<tr>
<td>AUTO 100</td>
<td>Beginning Auto</td>
<td>1</td>
</tr>
<tr>
<td>AUTO 118</td>
<td>Auto Maintenance</td>
<td>1</td>
</tr>
<tr>
<td><strong>Take 2 courses:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AUTO 155</td>
<td>Brakes, Suspension &amp; Alignment</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 225</td>
<td>Automotive Electricity/Electronics</td>
<td>6</td>
</tr>
<tr>
<td>AUTO 235</td>
<td>Auto Engine Performance</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>
Course Descriptions

**AUTO 100 Auto Maintenance I**  
Credits*: 1.0:1:0  
Prerequisite: None.  
This class is a basic consumer-awareness and career exploration course. It is designed to teach students about how their automobiles work and how to maintain them. They will also be introduced to career opportunities in the automotive field. Some of the course time will be spent in the classroom, while some will be spent working in the lab with small groups.  
(Fall, Winter, Spring)

**AUTO 118 Auto Maintenance II**  
Credits*: 1.0:0:2  
Fee: $10.00  
Prerequisite: Auto 100 or concurrent enrollment in Auto 100 or consent of instructor.  
This is a lab-only experience designed to teach students how to perform maintenance and basic repairs on their own automobiles. Students will learn skills through demonstrations and other assignments; they will then practice those skills on their own vehicles.  
(Fall, Winter, Spring)

**AUTO 155 Steering, Suspension and Brakes**  
Credits*: 4.0:2:7  
Fee: $60.00  
A class oriented towards automotive majors that teaches service and repair procedures on the steering, suspension, and brake systems that are found on today's cars and light trucks.  
(Fall, Spring)

**AUTO 165 Manual Drive Trains**  
Credits*: 4.0:2:7  
Prerequisite: Majors Only.  
Principles and theory, diagnosis and repair of clutch mechanisms, manual transmissions and transaxles, transfer cases, drive shafts, and drive axles.  
(Winter)

**AUTO 221 Air Conditioning & Heating**  
Credits*: 3.0:2:3  
Prerequisite: Automotive major or consent of Instructor, Auto 225  
Wiring diagrams, vacuum circuits, climate control systems, air conditioning theory, and their computer controls diagnosis and repair of all related systems.  
(Fall, Spring)

**AUTO 225 Automotive Electrical Systems**  
Credits*: 6.0:4:8  
Prerequisite: Automotive major or consent of instructor.  
Basic electricity, automotive electrical circuits, starting systems, charging systems, accessory circuits, problem diagnosis, repair, and adjustment.  
(Fall, Spring)

**AUTO 235 Engine Performance I**  
Credits*: 6.0:4:8  
Fee: $60.00  
A class oriented towards automotive majors that teaches the operation, diagnosis and service of automobile and light truck ignition, fuel, and the design and service of emission systems. An introduction to computerized engine controls is an important portion of this class as well.  
(Winter)

**AUTO 250 Major Engine Repair**  
Credits*: 6.0:3:9  
Fee: $60.00  
Prerequisite: Automotive Majors only and successful completion of Auto 165, Auto 235.  
This course teaches the theory, operation, diagnosis and repair of automotive engines.  
(Winter)

**AUTO 265 Automotive Transmissions**  
Credits*: 6.0:3:9  
Prerequisite: Auto 165, Auto 225, and Auto 235.  
Theory of operation, diagnosis and repair of common automatic transmissions used in passenger cars and light trucks.  
(Winter)

**AUTO 290 Independent Study**  
Credits*: 1.0-3.0:0:0  
Prerequisite: Coordinate with Department Chair.  
Special problems in automotive skills. Credit and schedule arranged with Auto department chairman.  
(Fall, Winter, Spring)

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* Credit Description (Credit Hours : Lecture Hours per week : Lab Hours per week)