HIGH SCHOOL: Helena High School
COLLEGE: Helena College University of Montana

COLLEGE DEGREE PROGRAM: Automotive Technology AAS

Cluster Overview:
Jobs in the Transportation, Distribution, and Logistics career cluster involve the planning, management, and movement of people, materials, and goods by road, air, rail, and water, as well as related professional and technical support services such as transportation infrastructure planning and management; logistics services; and mobile equipment and facility maintenance.

Pathway Options:
- Transportation Operations
- Logistics Planning and Management Services
- Warehousing & Distribution Center Operations
- Facility and Mobile Equipment Maintenance
- Transportation Systems/Infrastructure Planning, Management and Regulation
- Health, Safety and Environmental Management

Occupation Examples:
Dispatchers, Aircraft Mechanic, Airline Pilots, Air Traffic Controllers, Bus Drivers, Diesel Mechanics, Truck Drivers, Locomotive Engineers, Cargo and Freight Agents, Mass Transit Transportation Managers, Shipping and Receiving Clerks

For a complete listing, go to:
http://online.onetcenter.org/find/career?c=16&g=Go

SUGGESTED HIGH SCHOOL COURSES

<table>
<thead>
<tr>
<th>9th</th>
<th>Graduation Requirements: Workforce/2-Year College Prep</th>
<th>Pre Algebra, Algebra 1, English 1, Physical Education, Social Studies, Earth Science</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4-Year MT College/Univ Prep (Rigorous Core)</td>
<td>Foreign Languages</td>
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<tr>
<td></td>
<td><strong>CTE and/or Electives</strong></td>
<td><strong>Industrial Technology or Welding I</strong></td>
</tr>
<tr>
<td>10th</td>
<td>Graduation Requirements: Workforce/2-Year College Prep</td>
<td>Algebra 1, Geometry, Physical Education/Health, Biology I, Fine Art, English II</td>
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<tr>
<td></td>
<td>4-Year MT College/Univ Prep (Rigorous Core)</td>
<td>Algebra 1, Geometry, Foreign Languages</td>
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<td></td>
<td><strong>CTE and/or Electives</strong></td>
<td><strong>Auto II, Welding I or II, Drafting</strong></td>
</tr>
<tr>
<td>11th</td>
<td>Graduation Requirements: Workforce/2-Year College Prep</td>
<td>Technical Writing (WRIT121T), Technical Math (M111T)</td>
</tr>
<tr>
<td></td>
<td>4-Year MT College/Univ Prep (Rigorous Core)</td>
<td>American History, English III, Electives</td>
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<tr>
<td></td>
<td><strong>CTE and/or Electives</strong></td>
<td><strong>Auto II, Welding II or III, CAD</strong></td>
</tr>
<tr>
<td>12th</td>
<td>Graduation Requirements: Workforce/2-Year College Prep</td>
<td>Technical Writing (WRIT121T), Technical Math (M111T)</td>
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<tr>
<td></td>
<td>4-Year MT College/Univ Prep (Rigorous Core)</td>
<td>Government, English IV (WRIT101)</td>
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<tr>
<td></td>
<td><strong>CTE and/or Electives</strong></td>
<td><strong>Auto III, Welding III or IV</strong></td>
</tr>
</tbody>
</table>

ADVANCED LEARNING OPPORTUNITIES
High School to College/Career Linkages

Advanced Placement or IB courses:

Dual Enrollment courses: M11T Technical Math, WRIT121, Intro to Tech Writing College Writing WRIT 101

Online courses:
Other: work experience:

POSTSECONDARY PROGRAM OF STUDY (72 credits)

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Math</th>
<th>English</th>
<th>Major</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M111T Technical Math 3cr</td>
<td></td>
<td>AUTO104 Automotive Mechanics 2cr AST108 Auto Manual Drive Trains 6 AST130 Intro to Auto Electronics 7</td>
<td></td>
</tr>
</tbody>
</table>
### MONTANA POSTSECONDARY OPPORTUNITIES

Montana University System Degree and Program Inventory: [http://www.homepage.montana.edu/~mus/drginv/](http://www.homepage.montana.edu/~mus/drginv/)
Your Guide to Montana’s Certificate and Associate Degree Programs: [http://mus.edu/twoyear/YourGuide.html](http://mus.edu/twoyear/YourGuide.html)

**MSU Two Year Colleges and Programs:**
- City College MSUB—Billings (CC); Great Falls College MSU—Great Falls (GFC); Helena College UM—Helena (HC); Highlands College MT Tech—Butte (HC-Tech); Missoula College UM—Missoula (MC); Gallatin College MSU—Bozeman (GC)

**Community Colleges:**
- Dawson Community College (DCC)
- Flathead Valley Community College (FVCC)
- Miles Community College (MCC)

**Tribal Colleges:**
- Aaniih Nakoda College (ANC)
- Blackfeet Community College (BCC)
- Chief Dull Knife College (CDKC)
- Fort Peck Community College (FPCC)
- Little Big Horn College (LBHC)
- Stone Child College (SCC)
- Salish Kootenai College (SKC)

**Four Year Colleges/Universities:**
- MSU—Bozeman; MSUB—Billings; MSUN—Havre; MT Tech—Butte; UM—Missoula; UMW—Dillon

### MILITARY
- Requires diploma or GED
- 17 with parental consent; 18 without

- Air Force, Air Guard, Army, Coast Guard, Marines, and Navy
- [http://todaysmilitary.com](http://todaysmilitary.com)

### PROFESSIONAL CERTIFICATE
- Requires diploma or GED
- Less than 30 credits; little/no general education credits
- Complete in one year or less

- Automotive Technology — FVCC
- Truck Driving — MCC
- [http://todaysmilitary.com](http://todaysmilitary.com)

### APPRENTICESHIP
- Requires diploma or GED
- Must be at least 18
- Minimum 2,000 hours of supervised experience

- Automotive Collision & Refinishing — CC, GFC
- Automotive Technology — HC Tech, MSUN, CC, MCC, FPCC
- Diesel Equipment/Technology — CC
- Heavy Equipment Operation — MC, FVCC, MCC, FPCC, BCC
- Highway Construction Worker — SKC
- Recreational Power Equipment — MC
- Truck Driving — FPCC

### CERTIFICATE OF APPLIED SCIENCE
- Requires diploma or GED
- 30-45 credits; limited general education credits
- Complete in one year or less

### ASSOCIATE’S OF APPLIED SCIENCE DEGREE
- Requires diploma or GED
- 60-72 credits; includes 15-25 general ed credits
- Complete in two years *(if prepared academically in math and English)*

### BACCALAUREATE DEGREE
- Requires 4-year college prep for admission
- 128 credits (approximately)
- Complete in four years

- Automotive Collision & Refinishing — CC
- Automotive Technology — HC, CC, MSUN, MCC, FPCC
- Aviation — GC
- Aviation Maintenance — Helena College
- Diesel Equipment/Technology — CC, HC, MC, MSUN

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*Degree and Program Inventory above may not be all inclusive*