



AUTOMOTIVE TECHNOLOGY AAS

INDUSTRY, MANUFACTURING, & TRADES

START here

Requirements to Earn this Associate Degree

Work with an advisor to develop your specialized education plan.



Automotive Requirements:

| | |
|--|----|
| • AUT 105: Auto Personal Computer Applications..... | 2 |
| • AUT 111: Auto Engine Service..... | 9 |
| • AUT 115: Shop Safety & Environmental Issues | 1 |
| • AUT 121: Auto Electrical & Electronic Systems..... | 15 |
| • AUT 124: Brake System Service..... | 9 |
| • AUT 125: Suspension, Steering, & Alignment..... | 9 |
| • AUT 131: Manual Drive Train & Axles..... | 8 |
| • AUT 132: Hydraulics Systems..... | 3 |
| • AUT 190: Projects Lab..... | 2 |
| • AUT 190: Projects Lab..... | 2 |
| • AUT 190: Projects Lab..... | 2 |
| • AUT 211: Auto Convenience Systems..... | 2 |
| • AUT 212: Automatic Transmission Repair..... | 8 |
| • AUT 213: Automotive Servicing I..... | 6 |
| • AUT 220: Engine Performance..... | 18 |
| • AUT 223: Automotive Servicing II..... | 6 |
| • AUT 231: Auto Heating & Air Conditioning..... | 6 |
| • AUT 290: Projects Lab..... | 2 |
| • AUT 290: Projects Lab..... | 2 |
| • AUT 290: Projects Lab..... | 2 |
| • WLD 101: Oxy-Acetylene Welding for AUT..... | 2 |
| • WLD 102: ARC/CMAW Welding for AUT..... | 2 |

General Education Requirements:

| | |
|---|---|
| • CMST&210: Interpersonal Communication OR CMST&220: Public Speaking..... | 5 |
| • ENGL&101: English Composition I..... | 5 |
| • FAD 150: Industrial First Aid..... | 2 |
| • MAP 117: Applied Math for Workforce Programs..... (any college-level math if pursuing BAS-AM degree) | 5 |
| • PSYC&100: General Psychology OR SOC&101: Intro to Sociology..... | 5 |

Credits

Total Credits Required: 140

TO DO: Stay on track with this checklist!

TO DO'S:

QUARTER 1

- APPLY FOR FAFSA OR WASFA FOR NEXT YEAR (OPENS OCTOBER 1ST!)
- SET UP YOUR BANKMOBILE ACCOUNT
- GET FAMILIAR WITH YOUR CTCLINK STUDENT HOMEPAGE
- MEET WITH YOUR ADVISOR

QUARTER 2

- MAKE AN EDUCATION PLAN WITH YOUR ADVISOR
- APPLY FOR BBCC FOUNDATION SCHOLARSHIPS

QUARTER 3

- MEET WITH YOUR ADVISOR

QUARTER 4

- UPDATE YOUR EDUCATION PLAN WITH YOUR ADVISOR

QUARTER 5

- APPLY FOR GRADUATION (AFTER ENROLLING IN YOUR FINAL QUARTER OF CLASSES)

QUARTER 6

- ORDER CAP AND GOWN
- ATTEND GRADUATION!
- BEGIN YOUR JOB SEARCH

Career Outlook

The Automotive Technology program is designed to develop entry level employment skills for those seeking career opportunities in the automotive repair field. As long as there are vehicles on the road, there will always be a need for highly skilled automotive technicians to maintain, service, and repair them. According to Washington State labor market information, over 2,500 annual job openings are projected in automotive related industries. The agricultural equipment service and repair industry also provides employment opportunities for our graduates. A high-tech career in automotive technology gives a person job mobility with the security of knowing that his/her skills will always be in demand.

Future Education Opportunities

A student in the BCC automotive program receives training in all eight ASE Certification areas. Modern repair and diagnostic test equipment is used in training the student to accurately repair the complex vehicles of today. The curriculum also includes shop safety and environmental training, Industrial First Aid Certification, EPA Section 609 Refrigerant Certification, basic welding skills, and hydraulics, as well as degree required general education classes. Graduates of the Automotive Technology program obtain employment as automotive repair technicians and in related occupations such as automotive parts merchandising, alignment, tire service, and fleet maintenance.

Find Out More

509.793.2255 or richardw@bigbend.edu

<https://www.bigbend.edu/academics/automotive-technology/>

Length of Program

140 credits = 6 quarters* if you take 21-27 credits each quarter.

*Your specific route may take longer than 6 quarters depending on the number of credits you take each quarter and where you start in your math and English pathways.

Which Quarter Can I Begin?

This program may be started Fall, Winter, or Spring quarter.

Program Modality

Instruction for this program is primarily on campus. Some classes may be taught online or hybrid with on campus labs.

Helpful Hints

- Cumulative GPA must be 2.0 or higher required to earn the degree
- Meet with your advisor each quarter to make sure you are on track!
 - If you start winter or spring quarter, meet with the Automotive advisor as soon as possible!

OPPORTUNITY FOR FREE \$\$\$

Workforce Education Services provides additional financial assistance for tuition and fees, books, tools, bus passes, and emergency support.

See if you qualify here!



Automotive Technology Pre-Requisite Flow Chart

Start by talking with an advisor to determine which courses to take first based on your placement scores.

DVS 080
College Transitions Math
(F, W, Sp)

MAP 117
Applied Math for Workforce I

ENGL 99
English Skills
(F, W, Sp)

+ CSS 106
Reading Skills

ENGL&101
Composition I

AUT 115
Auto Shop Safety & Env Issues
(F, W, Sp)

AUT 121
Auto Electrical & Electronic Systems
(F)

AUT 190
Skills Lab I
(F, W, Sp)

First year AUT courses

Second year AUT courses

Advising Tips

Optional Internship Substitutes:

- AUT 295 (Workbased Learning & Seminar)

Limited Availability Courses Without Prerequisites:

- WLD 101: Oxy-Acetylene Welding for AUT (W)
- WLD 102: ARC/CMAW Welding for AUT (W)

KEY

F = Fall
W = Winter
Sp = Spring
Su = Summer

CERTIFICATE OPTIONS

AUTOMOTIVE TECHNOLOGY

Automatic Transmission & Transaxle Repair Certificate of Accomplishment

Credits

- AUT 115: Shop Safety & Environmental Issues.....1
- AUT 212: Automatic Transmission Repair.....8
-

Total Credits: 9

Engine Performance Certificate of Accomplishment

Credits

- AUT 115: Shop Safety & Environmental Issues.....1
- AUT 220: Engine Performance.....18

Total Credits: 19

Automotive Heating and Air Conditioning Certificate of Accomplishment

Credits

- AUT 115: Shop Safety & Environmental Issues.....1
- AUT 231: Auto Heating & Air Conditioning.....6

Total Credits: 7

Engine Repair Certificate of Accomplishment

Credits

- AUT 115: Shop Safety & Environmental Issues.....1
- AUT 111: Auto Engine Service.....9

Total Credits: 10

Brake Repair Certificate of Accomplishment

Credits

- AUT 115: Shop Safety & Environmental Issues.....1
- AUT 124: Brake System Service.....9

Total Credits: 10

Manual Drive Train & Axle Certificate of Accomplishment

Credits

- AUT 115: Shop Safety & Environmental Issues.....1
- AUT 131: Manual Drive Train & Axles.....8

Total Credits: 9

Electrical/Electronic Systems Certificate of Accomplishment

Credits

- AUT 115: Shop Safety & Environmental Issues.....1
- AUT 121: Auto Electrical & Electronic Systems.....15

Total Credits: 16

Suspension & Steering Certificate of Accomplishment

Credits

- AUT 115: Shop Safety & Environmental Issues.....1
- AUT 125: Suspension, Steering, & Alignment.....9

Total Credits: 10

My Education Plan

Name: _____

ID #: _____

| | |
|--|--------------|
|  Quarter/Year | Quarter/Year |
| Quarter/Year | Quarter/Year |
| Quarter/Year | Quarter/Year |

My Education Plan

Name: _____

ID #: _____

| | |
|--------------|--------------|
| Quarter/Year | Quarter/Year |
| Quarter/Year | Quarter/Year |
| Quarter/Year | Quarter/Year |



Suggested Schedule to Earn this Associate Degree

If the classes listed below don't fit your schedule or you're planning to start after fall quarter, work with an advisor to develop your specialized education plan.

Year One

| Fall | Credits |
|---|----------------|
| • AUT 115: Shop Safety & Environmental Issues..... | 1 |
| • AUT 121: Auto Electrical & Electronic Systems..... | 15 |
| • AUT 190: Projects Lab..... | 2 |
| • MAP 117: Applied Math for Workforce Programs I..... | 5 |
| Winter | |
| • AUT 124: Brake System Service..... | 9 |
| • AUT 125: Suspension, Steering, & Alignment..... | 9 |
| • AUT 132: Hydraulics Systems..... | 3 |
| • AUT 190: Projects Lab..... | 2 |
| • WLD 101: Oxy-Acetylene Welding for AUT..... | 2 |
| • WLD 102: ARC/CMAW Welding for AUT..... | 2 |
| Spring | |
| • AUT 105: Auto Personal Computer Applications..... | 2 |
| • AUT 111: Auto Engine Service..... | 9 |
| • AUT 131: Manual Drive Train & Axles..... | 8 |
| • AUT 190: Projects Lab..... | 2 |

Year Two

| | |
|--|----|
| Fall | |
| • AUT 220: Engine Performance..... | 18 |
| • AUT 290: Projects Lab..... | 2 |
| • CMST&210: Interpersonal Communication OR CMST&220: Public Speaking..... | 5 |
| Winter | |
| • AUT 212: Automatic Transmission Repair..... | 8 |
| • AUT 213: Automotive Servicing I..... | 6 |
| • AUT 290: Projects Lab..... | 2 |
| • ENGL&101: Composition I..... | 5 |
| Spring | |
| • AUT 211: Auto Convenience Systems..... | 2 |
| • AUT 223: Automotive Servicing II..... | 6 |
| • AUT 231: Auto Heating & Air Conditioning..... | 6 |
| • AUT 290: Projects Lab..... | 2 |
| • FAD 150: Industrial First Aid..... | 2 |
| • PSYC&100: General Psychology OR SOC&101: Intro to Sociology..... | 5 |