

BIG BEND COMMUNITY COLLEGE

INDUSTRY, MANUFACTURING & TRADES

AUTOMOTIVE TECHNOLOGY



The Automotive Technology program is two years (six quarters) in length and 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. A student in the BBCC 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. 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.

NAME:

ENTRY REQUIREMENTS

- Complete Admissions and Placement processes
- Meet with AUT advisor prior to enrolling

DEGREE REQUIREMENTS

Related Instruction (20 Credits)

- | | |
|--|--|
| <input type="checkbox"/> AUT 105 – Auto Personal Computer Applications (2) | <input type="checkbox"/> ENGL 109 – Applied Technical Writing (3) |
| <input type="checkbox"/> BUS 120 – Human Relations on the Job (4) | <input type="checkbox"/> FAD 150 – Industrial First Aid & CPR (2) |
| <input type="checkbox"/> CMST 100 – Human Communications (4) | <input type="checkbox"/> MAP 101 – Applied Mathematics (AUT/WLD) (5) or
MAP 117 – Applied Math for Workforce Programs (5) |

Program Core (117 Credits Total)

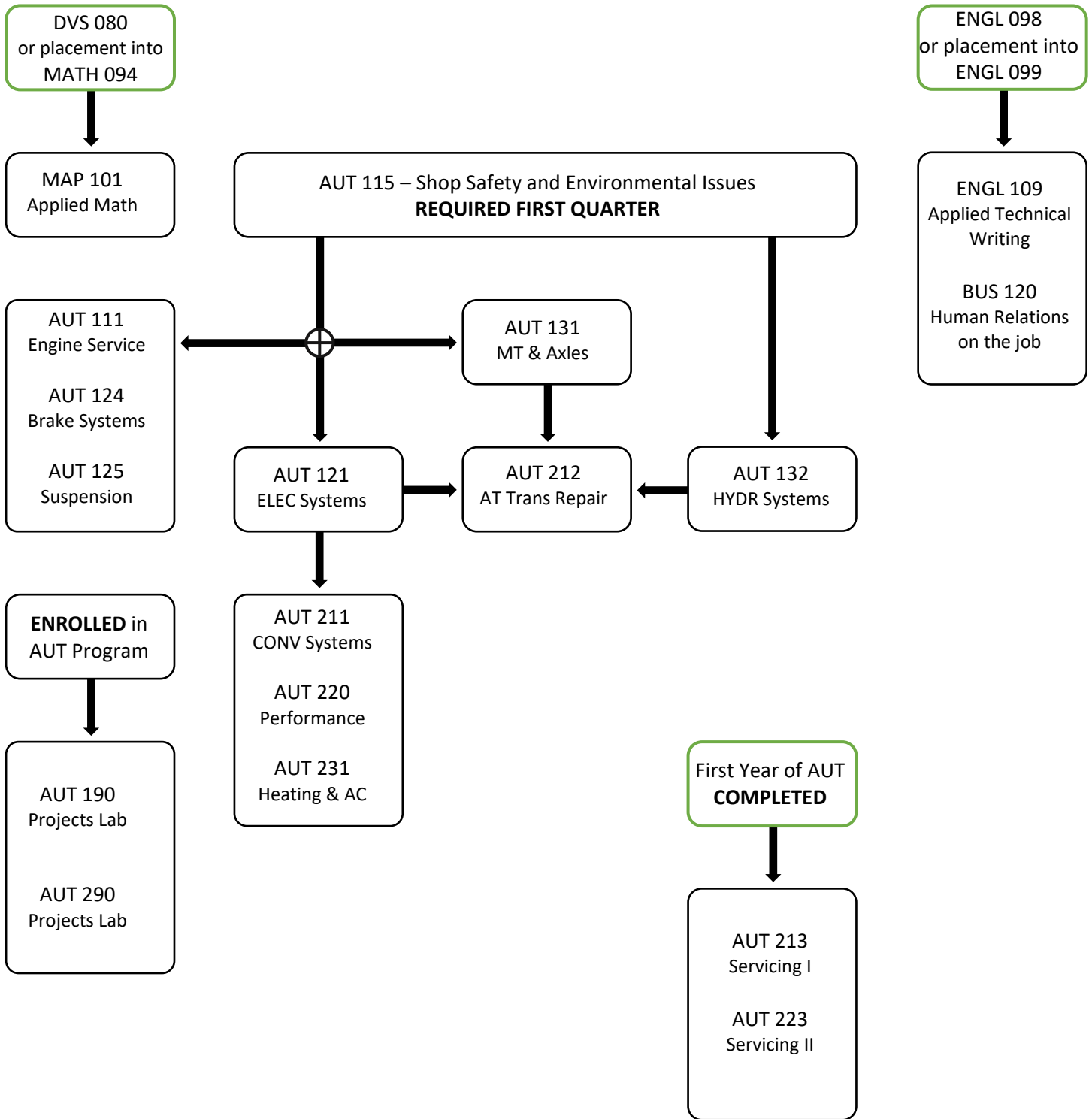
- | | |
|--|--|
| <input type="checkbox"/> AUT 111 – Auto Engine Service (3) | <input type="checkbox"/> AUT 211 – Auto Convenience Systems (2) |
| <input type="checkbox"/> AUT 115 – Shop Safety Environmental Issues (1) | <input type="checkbox"/> AUT 212 – Automatic transmission Repair (9) |
| <input type="checkbox"/> AUT 121 – Auto Electrical & Electronic Systems (15) | <input type="checkbox"/> AUT 213 – Automotive Servicing I (6) |
| <input type="checkbox"/> AUT 124 – Brake System Service (9) | <input type="checkbox"/> AUT 220 – Engine Performance (18) |
| <input type="checkbox"/> AUT 125 – Suspension, steering & Alignment (9) | <input type="checkbox"/> AUT 223 – Automotive Servicing II (6) |
| <input type="checkbox"/> AUT 131 – Manual Drive Train & Axles (8) | <input type="checkbox"/> AUT 290 – Projects Labe (2 per quarter) (6) |
| <input type="checkbox"/> AUT 132 – Hydraulics Systems (3) | <input type="checkbox"/> WLD 101 – Oxy Acetylene Welding for AUT (2) |
| <input type="checkbox"/> AUT 190 – Projects Lab (2 per quarter) (6) | <input type="checkbox"/> WLD 102 – ARC/CMAW welding for AUT (2) |

137 TOTAL DEGREE CREDITS

SID

AUTOMOTIVE TECHNOLOGY PRE-REQUISITE FLOW CHART

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



KEY

STARTING POINT
of SEQUENCE

→
PRE-requisite

↔
CO-requisite

[F = fall W = winter Sp = spring Su = summer]

Program Courses WITHOUT PRE-requisites

Program Requirements
 CMST 100 – Human Communications
 FAD 150 – Industrial First Aid & CPR

NAME: _____

AUTO TECH QUARTERLY PRGRAM PLAN (YEAR ONE)		
FALL (25 Credits)	WINTER (24 Credits)	SPRING (22 Credits)
AUT 111 (9) AUT 115 (1) AUT 131 (8) AUT 190 (2) MAP 101 (5)	AUT 121 (15) AUT 132 (3) AUT 190 (2) WLD 101 (2) WLD 102 (2)	AUT 105 (2) AUT 124 (9) AUT 125 (9) AUT 190 (2)
ADVISING		
FALL	WINTER	SPRING
<input type="checkbox"/> Fill out FAFSA or WAFSA for next year <input type="checkbox"/> Meet with your advisor	<input type="checkbox"/> BBCC Foundation scholarship app	

AUTO TECH QUARTERLY PROGRAM PLAN (YEAR TWO)		
FALL (23 Credits)	WINTER (20 Credits)	SPRING (22 Credits)
AUT 220 (18) AUT 290 (2) ENGL 109 (3)	AUT 212 (8) AUT 213 (6) AUT 290 (2) CMST 100 (4)	AUT 211 (2) AUT 223 (6) AUT 231 (6) AUT 290 (2) BUS 120 (4) FAD 150 (2)
ADVISING		
FALL	WINTER	SPRING
	<input type="checkbox"/> Apply for BBCC graduation	<input type="checkbox"/> Explore employment opportunities using BBCC Career Services

QUARTERLY REGISTRATION PLANNING					
QUARTER <input type="checkbox"/> FALL <input type="checkbox"/> WINTER <input type="checkbox"/> SPRING <input type="checkbox"/> SUMMER					REGISTRATION ACCESS CODE _____
CLASS	TITLE	CREDITS	DAYS	TIME	ITEM #

QUARTERLY REGISTRATION PLANNING					
QUARTER <input type="checkbox"/> FALL <input type="checkbox"/> WINTER <input type="checkbox"/> SPRING <input type="checkbox"/> SUMMER					REGISTRATION ACCESS CODE _____
CLASS	TITLE	CREDITS	DAYS	TIME	ITEM #

SID _____

AUTOMOTIVE TECHNOLOGY CERTIFICATION OF ACCOMPLISHMENT

- Automatic Transmission & Transaxle Repair
 AUT 212 – Automatic Transmission Repair (9)
- Automotive Heating and Air Conditioning
 AUT 231 – Auto Heating and Air Conditioning (6)
- Brake Repair
 AUT 124 – Brake System Service (9)
- Electrical/Electronic System
 AUT 121 – Auto Electrical & Electronic Systems (15)
- Engine Performance
 AUT 220 – Engine Performance (18)

- Engine Repair
 AUT 111 – Automotive Engine Service (9)
- Manual Drivetrain and Axle
 AUT 131 – Manual Drivetrain and Axles (8)
- Suspension and Steering
 AUT 125 – Suspension, Steering and Alignment (9)
- ATTENTION:**
 All certificates require the completion of AUT 115. Students seeking to earn multiple certificates only need to complete AUT 115 once regardless of number of certificates intended.

NAME: _____

QUARTERLY REGISTRATION PLANNING

QUARTER <input type="checkbox"/> FALL <input type="checkbox"/> WINTER <input type="checkbox"/> SPRING <input type="checkbox"/> SUMMER			REGISTRATION ACCESS CODE _____		
CLASS	TITLE	CREDITS	DAYS	TIME	ITEM #

QUARTERLY REGISTRATION PLANNING

QUARTER <input type="checkbox"/> FALL <input type="checkbox"/> WINTER <input type="checkbox"/> SPRING <input type="checkbox"/> SUMMER			REGISTRATION ACCESS CODE _____		
CLASS	TITLE	CREDITS	DAYS	TIME	ITEM #

QUARTERLY REGISTRATION PLANNING

QUARTER <input type="checkbox"/> FALL <input type="checkbox"/> WINTER <input type="checkbox"/> SPRING <input type="checkbox"/> SUMMER			REGISTRATION ACCESS CODE _____		
CLASS	TITLE	CREDITS	DAYS	TIME	ITEM #

SID _____

NAME: _____

SID _____

**Big Bend Community College
WORKFORCE EDUCATION PROGRAM REQUIREMENTS
Associate in Applied Science Degree**

Credit Requirement: Completion of the total credit requirements of the approved Workforce Education Program Plan. Minimum of 90 quarter hours. It is the student's responsibility to insure that he/she meets all of the technical and general education degree requirements.

MATHEMATICS REQUIREMENT: 3-5 credits* in mathematics courses as stated in the approved Professional/Technical Program Plan.

BUS 102	Business Mathematics
MAP 100	Applied Mathematics (AMT)*
MAP 101	Applied Mathematics (AUT/WLD)
MAP 103	Applied Mathematics (MMT/IET)
MAP 117	Applied Mathematics for Workforce I
MAP 119	Applied Mathematics for Workforce II
MATH& 107	Math in Society
MATH& 141	Pre-calculus I
MATH& 146	Intro to Statistics
MATH 147	Finite Mathematics
* AMT program requires two MAP 100 credits	

WRITTEN COMMUNICATIONS REQUIREMENT: 3-5 credits in written communications courses as stated in the approved Professional/Technical Program Plan.

BUS 121	Business English
ENGL& 101	English Composition I
ENGL 109	Applied Technical Writing

ORAL COMMUNICATIONS REQUIREMENT: 3-5 credits in oral communications courses as stated in the approved Professional/Technical Program Plan.

AVF 225	Effective Communications in Flight Instruction
CMST 100	Human communications
CMST& 210	Interpersonal Communications
CMST& 220	Public Speaking

HUMAN RELATIONS REQUIREMENT: 3-5 credits in human relations courses as stated in the approved Professional/Technical Program Plan.

BUS 120	Human Relations on the Job
EDUC& 115	Child Development
PSYC& 100	General Psychology
SOC& 101	Intro to Sociology

INDUSTRIAL FIRST AID REQUIREMENT: 2 credits in Industrial First Aid or equivalent or higher certification as stated in the approved Professional/Technical Program Plan.

FAD 150	Industrial First Aid and CPR plus Bloodborne Pathogens
Current First Aid/CPR, First Responder, or EMT card	

Student Name _____ SID # _____

Approval: _____

Advisor _____ Date _____

Program Completion Approval: _____

Dean of Workforce Education _____ Date _____

Each program must be approved by the Workforce Education program advisor. Program changes and substitutions must be approved by the program advisor prior to application for degree.