

# BIG BEND COMMUNITY COLLEGE

## AVIATION

### AVIATION MAINTENANCE TECHNOLOGY



The Aviation Maintenance Technology (AMT) program at BBCC is designed to prepare students for FAA airframe and powerplant maintenance certification and for employment in aviation maintenance careers. Courses offer quality training to serious and motivated students through a structured competency-based curriculum provided by industry-experienced instructors. Instruction includes the basics of maintenance, servicing, inspection, repair, troubleshooting, and overhaul of aircraft airframes, powerplants, and their related systems and 44 components associated with general and commercial aviation in the proper environment in which students may become professional aviation maintenance technicians. International students must take degree requirement academic courses during their first quarter of enrollment at BBCC. The international student advisor will place new students in the appropriate classes.

The AMT program also provides the opportunity to transfer to Central Washington University (CWU) where they can earn a Bachelor's of Science. Students interested in transferring should communicate their intent with an AMT advisor to ensure all transfer requirements are met as this may require additional courses and substitutions.

NAME \_\_\_\_\_

#### ENTRY REQUIREMENTS

- Complete Admissions and Placement processes       Meet with AMT Faculty/Advisor

#### DEGREE REQUIREMENTS

##### FAA Approved Program Core

- |   |  |
|---|--|
| <input type="checkbox"/> AMT 148 – AMT General Electricity (7)                | <input type="checkbox"/> AMT 249 – AMT Powerplant Electricity (2)              |
| <input type="checkbox"/> AMT 149 – AMT Airframe Electricity (3)               | <input type="checkbox"/> AMT 251 – Powerplant Mechanics I (16)                 |
| <input type="checkbox"/> AMT 150 – AMT General (16)                           | <input type="checkbox"/> AMT 252 – Powerplant Mechanics II (14)                |
| <input type="checkbox"/> AMT 151 – Airframe Mechanics I (22)                  | <input type="checkbox"/> AMT 253 – Powerplant Mechanics III (16)               |
| <input type="checkbox"/> AMT 152 – Airframe Mechanics II (21)                 | <input type="checkbox"/> AMT 254 – Powerplant Mechanics IV (4-16) <sup>2</sup> |
| <input type="checkbox"/> AMT 153 – Airframe Mechanics III (4-24) <sup>1</sup> | <input type="checkbox"/> WLD 103 – Beginning AMT Welding (2)                   |

##### Related Instruction

- |  |  |
|--|--|
| <b>Associate of Applied Science (AAS) Related Instruction</b><br><input type="checkbox"/> CMST 100 – Human Communications (4)<br><br><input type="checkbox"/> ENGL 109 – Applied Technical Writing (3)<br><input type="checkbox"/> FAD 150 – Industrial First Aid & CPR (2)<br><input type="checkbox"/> MAP 100 – Applied Mathematics (AMT) (2)<br><input type="checkbox"/> BUS 120 – Human Relations of the Job (4) | <b>Equivalent Related Instruction for CWU (optional)</b><br><input type="checkbox"/> CMST& 210 – Interpersonal Communications (5) or<br>CMST& 220 – Public Speaking (5)<br><input type="checkbox"/> ENGL& 101 – Composition I (5)<br><input type="checkbox"/> FAD 150 – Industrial First Aid & CPR (2)<br><input type="checkbox"/> MATH& 107 – Math in Society (5)<br><input type="checkbox"/> PSYC& 100 – General Psychology (5) or<br>SOC& 101 – Introduction to Sociology (5) |
|--|--|

##### Additional CWU Basic Breadth Equivalencies (for transfer track only)

- |  |  |
|--|--|
| <input type="checkbox"/> CS 101 – Introduction to Computer Science (3) | <input type="checkbox"/> PHIL& 120 – Symbolic Logic (5)                |
| <input type="checkbox"/> ECON& 201 - Microeconomics (5)                | <input type="checkbox"/> Social Science (5) _____                      |
| <input type="checkbox"/> ENGL& 102 – Composition II (5)                | <input type="checkbox"/> Lab Science (BIOL& 100, CHEM& 121, PHYS& 114) |

134 TOTAL DEGREE CREDITS

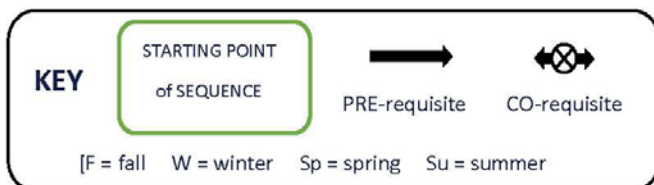
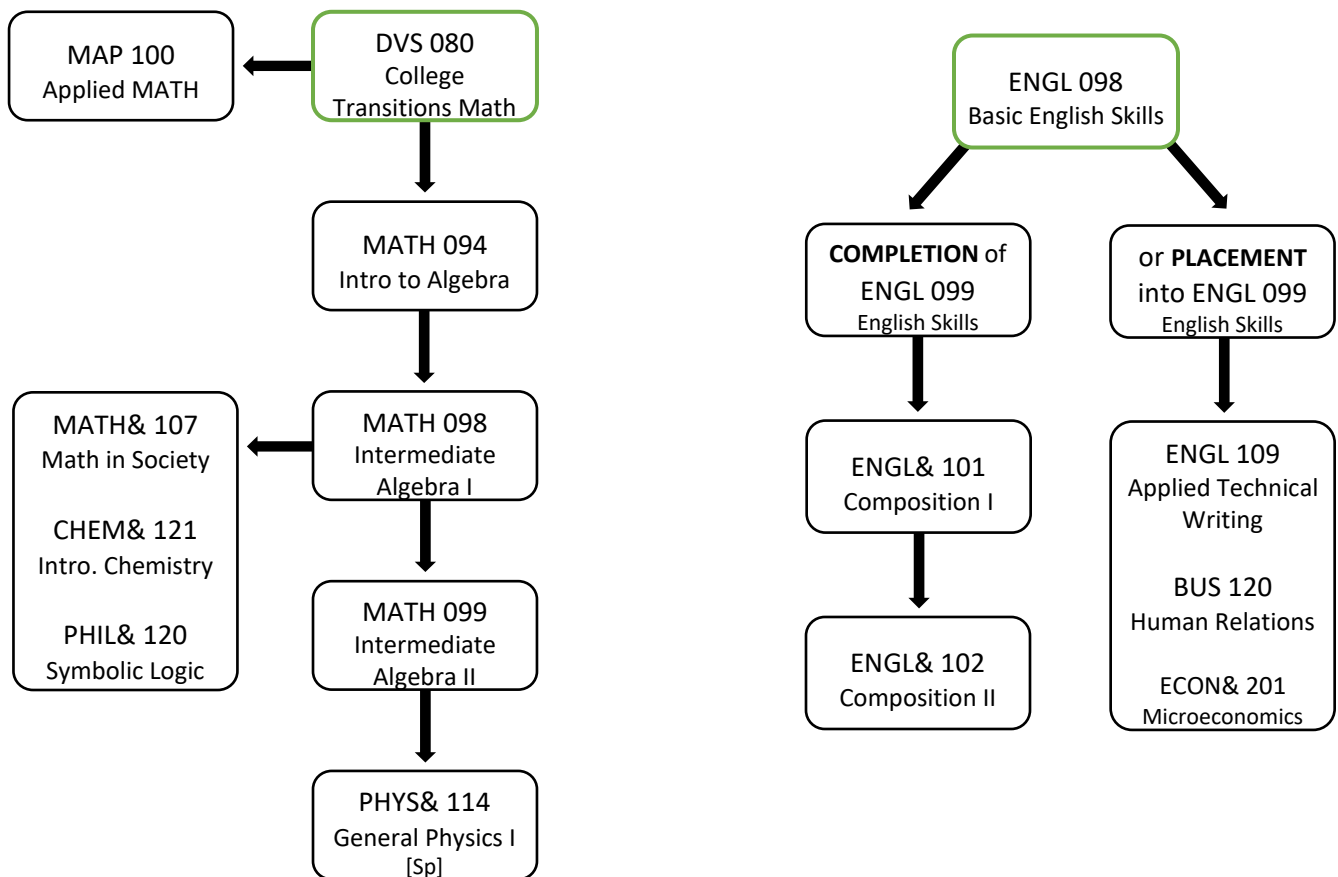
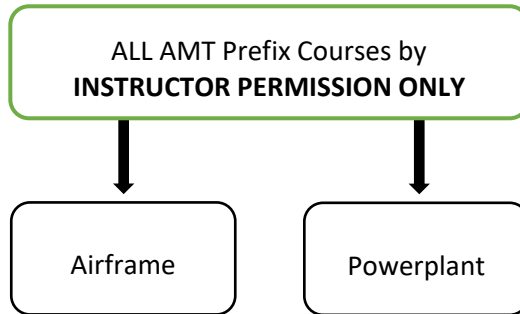
SID \_\_\_\_\_

<sup>1</sup> AMT 153 Only required if students need more time to achieve FAA required proficiency levels

<sup>2</sup> AMT 254 Only required if students need more time to achieve FAA required proficiency levels

## AVIATION MAINTENANCE TECHNOLOGY PRE-REQUISITE FLOW CHART

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



**Program Courses WITHOUT PRE-requisites**

Program Course Requirements

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

Recommended Transfer Courses

CMST& 210 – Interpersonal Comm (sub for CMST 100)  
CMST& 220 – Public Speaking (sub for CMST 100)  
PSYC& 100 or SOC& 101 (sub for BUS 120)

NAME \_\_\_\_\_

AVIATION MAINTENANCE TECHNOLOGY QUARTERLY PLAN (YEAR ONE)		
FIRST (21 credits)	SECOND (20 credits)	THIRD (20 credits)
AMT 148 (7) AMT 150 (12) MAP 100 (2)	AMT 149 (3) AMT 150 (4) AMT 151 (11) WLD 103 (2)	AMT 151 (11) AMT 152 (9)
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	
AVIATION MAINTENANCE TECHNOLOGY QUARTERLY PLAN (YEAR TWO)		
FOURTH (20 credits)	FIFTH (20 credits)	SIXTH (20 credits)
AMT 152 (12) AMT 251 (8)	AMT 249 (2) AMT 251 (8) AMT 252 (10)	AMT 252 (4) AMT 253 (16)
ADVISING		
FALL	WINTER	SPRING
<input type="checkbox"/> If transferring, begin admissions app AND submit FAFSA for university	<input type="checkbox"/> Apply for BBCC gradation	<input type="checkbox"/> Explore employment opportunities using BBCC Career Services

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

SID \_\_\_\_\_

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

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

NAME

**AVIATION MAINTENANCE TECHNOLOGY  
CERTIFICATE OF ACHIEVEMENT**

Airframe-Maintenance Technician (63 credits)	Powerplant Maintenance Technician (63 credits)
<input type="checkbox"/> AMT 149 – AMT Airframe Electricity (3) <input type="checkbox"/> AMT 151 – Airframe Mechanics I (21) <input type="checkbox"/> AMT 152 – Airframe Mechanics II (21) <input type="checkbox"/> BUS 120 – Human Relations on the Job (4) <input type="checkbox"/> CMST 100 – Human Communications (4) <input type="checkbox"/> ENGL 109 – Applied Technical Writing (3) <input type="checkbox"/> FAD 150 – Industrial First Aid & CPR (2) <input type="checkbox"/> MAP 100 – Applied Math for AMT (2) <input type="checkbox"/> WLD 103 – Beginning AMT Welding (2)	<input type="checkbox"/> AMT 249 – AMT Airframe Electricity (2) <input type="checkbox"/> AMT 251 – Powerplant Mechanics I (16) <input type="checkbox"/> AMT 252 – Powerplant Mechanics II (14) <input type="checkbox"/> AMT 253 – Powerplant Mechanics III (16) <input type="checkbox"/> BUS 120 – Human Relations on the Job (4) <input type="checkbox"/> CMST 100 – Human Communications (4) <input type="checkbox"/> ENGL 109 – Applied Technical Writing (3) <input type="checkbox"/> FAD 150 – Industrial First Aid & CPR (2) <input type="checkbox"/> MAP 100 – Applied Math for AMT (2)

**AVIATION MAINTENANCE TECHNOLOGY  
CERTIFICATES OF ACCOMPLISHMENT**

Aviation Maintenance General (25 credits)	Powerplant Mechanic (16 credits)
<input type="checkbox"/> AMT 148 – AMT General Electricity (7) <input type="checkbox"/> AMT 150 – AMT General (16) <input type="checkbox"/> MAP 100 – Applied Math for AMT (2)	<input type="checkbox"/> AMT 251 – Powerplant Mechanics I (16)

Airframe Mechanic I (24 credits)	Powerplant Mechanic II (16 credits)
<input type="checkbox"/> AMT 149 – AMT Airframe Electricity (3) <input type="checkbox"/> AMT 151 – Airframe Mechanics I (22)	<input type="checkbox"/> AMT 249 – AMT Powerplant Electricity (2) <input type="checkbox"/> AMT 252 – Powerplant Mechanics II (14)

Airframe Mechanic II (24 credits)	Powerplant Mechanic III (16 credits)
<input type="checkbox"/> AMT 152 – Airframe Mechanics II (22) <input type="checkbox"/> WLD 103 – Beginning AMT Welding (2)	<input type="checkbox"/> AMT 253 – Powerplant Mechanics III (16)

**QUARTERLY REGISTRATION PLANNING**

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

**QUARTERLY REGISTRATION PLANNING**

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

SID

**Big Bend Community College**  
**WORKFORCE EDUCATION PROGRAM REQUIREMENTS**

NAME \_\_\_\_\_

**Certificate of Achievement**

Students working toward a Certificate of Achievement need to develop a program plan with the faculty advisor in their Workforce Education area of interest. The plan must include all related instruction components. The Certificate of Achievement is designed to provide recognition for the student who has not completed an Associate in Applied Science degree program.

**Certificate of Accomplishment**

Students working toward a Certificate of Accomplishment need to develop a program plan with the faculty advisor in their Workforce Education area of interest. The Certificate of Achievement is designed to provide recognition for the student who does not complete a Certificate of Achievement or an Associate in Applied Science degree program.

**Changes or substitutions for course work in the college catalog must be listed and approved by the advisor.** It is essential that students meet quarterly with their advisor before registration to review progress and plan their program.

Each program plan must be approved by the Workforce Education program advisor and Dean of Workforce Education. Certificates will be issued out of the Dean of Workforce Education Instructional Services office.

SID \_\_\_\_\_

**Certificate of Achievement**

**QTR & YR Completed:** \_\_\_\_\_

**Certificate of Achievement**

**QTR & YR Completed:** \_\_\_\_\_

Title of Certificate:

\_\_\_\_\_

*Advisor Approval:*

\_\_\_\_\_  
Advisor

\_\_\_\_\_  
Date

*Program Completion Approval:*

\_\_\_\_\_  
Dean of Workforce Education

\_\_\_\_\_  
Date

\_\_\_\_\_  
Instructional Services Office Assistant

\_\_\_\_\_  
Date

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/LET)
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.