Aviation Maintenance Technology Programs
Advanced Avionics Programs

GENERAL INFORMATION

Aviation Maintenance Technicians (AMTs), also known as aircraft mechanics, are responsible for keeping aircraft in airworthy condition. They perform regularly scheduled inspections and maintenance, as required by the Federal Aviation Administration (FAA). Avionics Technicians or Aircraft Electronic Technicians (AETs) are AMTs with advanced avionics training and certification.

Besides routine maintenance and inspections, work for Technicians involves repairs, replacement of parts, use of precision tools, troubleshooting for problems and testing of equipment following repairs to ensure that work has been done properly and within prescribed safety limits.

The commercial airlines or smaller facilities require technicians to work on many types of aircraft and perform all phases of the maintenance process. In other larger facilities, technicians may specialize in preventative maintenance and in specific parts of the maintenance process.

Technicians are FAA certified requiring hands-on training as well as classroom hours in appropriate programs. Avionics Bench Technicians (Bench Techs) only perform avionics manufacture, troubleshooting, and repair of components and do not require FAA certification.

Though there is high demand for AMTs, industry indicates the highest demand for employees is the AET.

EvCC’s Aviation Maintenance Technology program has been operating on Paine Field in Everett, Washington for 50 years and is an FAA Part 147 operating under Air Agency Certificate EU9T125R. It provides education and training necessary to qualify for the FAA AMT Certificate with Airframe and Powerplant (A & P) ratings. The curriculum meets or exceeds the minimum number of hours required by 14 CFR Part 147.

The Aviation Maintenance Technician School (AMTS) is eight quarters, including Summer Quarters, and the Advanced Avionics program is two quarters. Courses in the AMTS provide experience in reciprocating and turbine engines, airframe repair, maintenance, and inspection procedures. Courses in the Advanced Avionics program provide experience with electronics, wiring, fiber optics, aircraft avionics systems, and FCC license preparation.

ADMISSION AND DEGREE REQUIREMENTS

AMTS (Part 147) Program:

- Admission Requirements
  - Minimum 18 years of age
  - High School Diploma or equivalent certificate
  - Per FAA regulation, ability to read, write, and speak the English language
  - Eligibility for ENGL& 101 and MATH 086
  - Completion of Aviation Information Session within two years of program admission
  - Completion of mandatory orientation prior to beginning program

- Degree Requirements
  - Cumulative GPA of 2.0 in all coursework completed at EvCC
  - Must earn a 2.0 (C) in all required courses
  - Meet all FAA required hours and coursework

Advanced Avionics Program:

- Admission Requirements
  - Eligibility for ENGL& 101 and MATH&141 or hold the FAA AMT Certificate or completion of General Aviation curriculum in the AMTS program.
  - Completion of Avionics Information Session

PROGRAM OPTIONS

EvCC Aviation Maintenance Technology offers the following certificates and degrees in the AMT and Advanced Avionics programs:

- AMTS (Part 147) Program
  1. Airframe and Powerplant License Preparation: 160 credits
     Preparation for the FAA AMT License only. **This Preparation is not eligible for financial aid.**
2. **Aviation Maintenance Master Class (Military Program): 18 credits**
   Note: This certificate is intended for transitioning or recently transitioned military personnel and is not eligible for federal financial aid.

3. **Aviation Maintenance Technology Certificate: 73 – 75 credits**
   Preparation for the FAA AMT License and completion of 15 – 20 credits of general education courses.

4. **Aviation Maintenance Technology ATA: 90 credits**
   Preparation for the FAA AMT License and completion of 25 - 30 credits of general education courses.

5. **Aviation Maintenance Technology AAS-T: 90 credits**
   Preparation for the FAA AMT License and completion of 30 – 35 credits of general education courses. This degree is intended for students transferring to a specific university for a Bachelor’s degree.

   ❖ **Advanced Avionics Program**

   1. **Aircraft Electronics Short Term Certificate: 16 credits**
      Qualifies students for entry level employment in a variety of industry sectors in the electronics field.
      **Certificate is not eligible for financial aid.**

   2. **Aircraft Wiring Short Term Certificate: 12 credits**
      Qualifies students for entry level employment in the aerospace manufacturing sector in a wiring field.
      **Certificate is not eligible for financial aid.**

   3. **Aircraft Avionics Systems Short Term Certificate: 12 credits**
      Qualifies students for entry level employment in the aerospace manufacturing sector.
      **Certificate is not eligible for financial aid.**

   4. **Avionics Technician Short Term Certificate: 40 credits**
      Combination of the Short Term Certificates listed above, qualifying students to work as Avionics Bench Technicians. When combined with the FAA AMT Certificate, qualifies students to work in Aviation Maintenance fields as an Avionics Technician or AET.
      **Certificate is not eligible for financial aid.**

   5. **Aircraft Electronics Certificate: 55 credits**
      Qualifies students to work as Avionics Bench Technicians. When combined with the FAA AMT Certificate, qualifies students to work in Aviation Maintenance fields as an Avionics Technician or AET.

   6. **Aircraft Electronics Technician ATA: 125 credits**
      Combination of AMTS and Advanced Avionics programs with 25 - 30 credits of general education courses.

   7. **Airframe/Avionics ATA: 125 credits**
      Combination of Airframe portion of the AMTS and Advanced Avionics programs with 25 – 30 credits of general education courses.

Other potential programs to benefit aviation mechanics:

- **Composites**
  The Composites program is a hands-on, in-depth overview of the process involved in the development and production of composite products. Skills include tooling, fabrication, machining, assembly, quality assurance, repair, lay-up, vacuum bagging, and cure processing of wet laminating. The program is designed to prepare students to fabricate, assemble and repair composite materials on aircraft.

- **Industrial painting**
  Short term program providing hands-on skill preparation in painting technique, safety, and equipment and materials handling.

- **A & P Test Preparation**
  EvCC’s A&P Test Prep Program is designed to prepare participants to test for an FAA Mechanic’s Certificate with an Airframe, Powerplant or A&P rating. Individuals should already hold their FAA 8610-2.

Approved by Instructional Council October 25, 2018
CAREER OPTIONS

Employment opportunities in aviation maintenance (Aviation Maintenance Technicians and Avionics Technicians) are in high demand. 649,000 aircraft mechanics are needed worldwide, with approximately 118,000 of those in North America. Most job openings for aircraft mechanics will stem from position replacement and aerospace growth. The majority of aviation maintenance technicians work for airlines, maintenance repair and overhaul (MRO) stations or general aviation facilities. A smaller number work for the Federal Government at facilities in several metropolitan areas located throughout the country. Others work for independent repair shops or companies that operate their own airplanes for transporting executives and/or cargo. Some are self-employed. Industry gives stronger hiring preference to individuals holding both the A & P license and avionics certification.

Opportunities for advancement to positions as supervisors and inspectors are available to qualified aircraft mechanics. Industry prefers individuals hold a bachelor’s degree in addition to their FAA ratings. In 2016, median hourly earnings of aircraft mechanics and service technicians is $28.93 and $29.21 for Avionics Technicians.

Note: Background checks and drug testing are required in the aviation industry. Criminal history or illegal drug use may be cause for disqualification for employment. Positive drug testing can be cause for suspension or revocation of the FAA AMT License.

LEARNING OUTCOMES

1. Demonstrate and apply appropriate aviation technical applications, problem solving, and critical thinking skills required in industry while preparing for the FAA Aviation Maintenance Technician certification with Airframe and Powerplant ratings.
2. Demonstrate multiple communication means specific to aviation maintenance concepts and technical processes using appropriate terms and vocabulary.
3. Demonstrate safe work habits and behavior in aviation, reflecting concern, care, and pride in self, others, equipment, aircraft, and facilities.
4. Demonstrate and apply industry required technical skills and data.
5. Demonstrate and apply industry required technical skills in:
   1. Attendance
   2. Character
   3. Teamwork
   4. Appearance
   5. Attitude
   6. Productivity
   7. Organizational Skills
   8. Communication
   9. Cooperation
   10. Respect
   11. Documentary Discipline

PROGRAM ADVISORS

It is essential to meet with a program advisor and maintain the certificate or degree checklist while at Everett Community College. Advisors are assigned by the Aviation division office. Contact your assigned academic advisor to help you create your Degree Audit Plan. If no answer, call the division office at 425-388-9533.

Dale Lerback  C80  425-388-9521  dlerback@everettcc.edu
Steve Tuggle  C80  425-388-9969  stuggle@everettcc.edu
Shay Mohn    C80  425-388-9264  smohn@everettcc.edu
Ken Andreason C80  425-388-9519  kandreason@everettcc.edu
Matthew Cronin  C80  425-388-9964 x7422  mcronin@everettcc.edu
Raylene Alexander (Avionics)  C80  425-388-9519  ralexander@everettcc.edu
APPLYING FOR GRADUATION

One quarter before expected graduation, the certificate/degree checklist should be submitted with an online diploma application to the Enrollment Services Office.

GETTING STARTED AT EVCC

If you require information for applying, registering for classes, or other needs, please contact the Aviation division front office at 425-388-9533.

For more information about our graduation rates, the median debt of students who complete the program, and other information, please visit our website www.everettcc.edu/gainfulemployment

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## CERTIFICATE & DEGREE REQUIREMENTS

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<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
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### CORE REQUIREMENTS FOR AVIATION MAINTENANCE TECHNOLOGY LONG-TERM CERTIFICATES AND ATA DEGREES

- ENGL 098  Introduction to College Writing  5
- MATH 086  Essentials of Intermediate Algebra  5
- CMST&210  Interpersonal Communication  5

### CHOOSE ONE CERTIFICATE FROM THE FOLLOWING

#### AVIATION MAINTENANCE TECHNOLOGY CERTIFICATE

COMPLETE THE FOLLOWING COURSEWORK

### GENERAL QUARTER 1

- AMT& 101  Basic Electricity  5
- AMT 102  Basic Electricity 2: Practical Applications  3
- AMT& 111  Math and Physics  4
- AMT& 141  Aircraft Drawings  2
- AMT& 161  Materials & Processes  7

### GENERAL QUARTER 2

- AMT 105  Human Factors  2
- AMT 180  Fundamentals of Troubleshooting  2
- AMT& 121  Weight & Balance  2
- AMT& 131  Corrosion Control/Fluid Lines  5
- AMT& 151  Ground Operations & Servicing  4
- AMT& 171  Federal Aviation Regulations (FAR’s)  4

### POWERPLANT QUARTER 1

- AMT& 251  Reciprocating Engines I  5
- AMT& 252  Reciprocating Engines II  5
- AMT& 271  Engine Ignition & Starting Systems  6
- AMT& 275  Lubrication Systems: Reciprocating Engines  4

### POWERPLANT QUARTER 2

- AMT& 253  Turbine Engines I  5
- AMT& 254  Turbine Engines II  5
- AMT& 261  Engine Instruments  1
- AMT& 265  Engine Fire Protection  1
- AMT& 267  Engine Electrical  5
- AMT 276  Lubrication Systems: Turbine Engines  3

### POWERPLANT QUARTER 3

- AMT& 257  Engine Inspection  3
- AMT& 279  Engine Fuel Systems  7
- AMT& 281  Engine Induction & Cooling  4
- AMT& 285  Propellers & Fans  6

### AIRFRAME QUARTER 1

- AMT& 205  Wood, Covers and Finishes  9
- AMT& 215  Assembly & Rigging (with Helicopters)  7
- AMT& 235  Navigation Communications Systems  1
- AMT& 237  Airframe Fuel Systems  3

### AIRFRAME QUARTER 2

- AMT& 201  Composites  5
- AMT& 211  Sheet Metal  10
- AMT& 231  Ice & Rain Control Systems  3
- AMT& 239  Aircraft Electrical  2

### AIRFRAME QUARTER 3

- AMT& 207  Welding  2
- AMT& 221  Airframe Inspection  4
- AMT& 223  Landing Gear/Hydraulics  9
- AMT& 241  Aircraft Instrument Systems  2
- AMT& 245  Cabin Environment  3
<table>
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<td>AVIO&amp; 101</td>
<td>Aircraft Electrical Fundamentals</td>
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<td>AVIO&amp; 102</td>
<td>Aircraft Electronic Fundamentals</td>
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<td>AVIO&amp; 103</td>
<td>Aircraft Wiring Systems</td>
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<td>AVIO&amp; 104</td>
<td>Aircraft Fiber Optic Systems</td>
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<td>AVIO&amp; 201</td>
<td>Aircraft Digital Electronic Instrument Systems</td>
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<td>AVIO&amp; 202</td>
<td>Avionics Systems for Airframe and Powerplant</td>
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<td>AVIO&amp; 203</td>
<td>Avionics Communications</td>
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<td>AVIO&amp; 204</td>
<td>Principles of Avionics Troubleshooting</td>
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<td>AVIO&amp; 205</td>
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<td>AVIO&amp; 206</td>
<td>Aviation Maintenance Master Class</td>
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**AVIATION MAINTENANCE MASTER CLASS (MILITARY PROGRAM) (18 CREDITS)**

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<th>Course Title</th>
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<tr>
<td>AMT 295</td>
<td>Aviation Maintenance Master Class</td>
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<td>AMT 296</td>
<td>Aviation Maintenance Master Class Professional Portfolio</td>
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**LONG TERM CERTIFICATES**

**AIRCRAFT Electronics Technician CERTIFICATE (55 CREDITS)**

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<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ENGL&amp; 101</td>
<td>English Composition I</td>
<td>5</td>
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<tr>
<td>MATH&amp; 141</td>
<td>Precalculus I: College Algebra</td>
<td>5</td>
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<tr>
<td>CMST&amp; 210</td>
<td>Interpersonal Communication</td>
<td>5</td>
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**CHOSE ONE ATA DEGREE FROM THE FOLLOWING**

**ASSOCIATE IN TECHNICAL ARTS IN AVIATION MAINTENANCE TECHNOLOGY (90 CREDITS)**

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<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade</th>
<th>Quarter</th>
<th>Year</th>
<th>College/University</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A&amp;P License OR Students with an AMT Certificate with A&amp;P Ratings (or Aviation Program Certificate) may be awarded sixty (60) credits after completing 30 required credits at EvCC</td>
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<tr>
<td>ENGL &amp; 101 can be substituted for ENGL 098</td>
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**AIRFRAME/AVIONICS ATA DEGREE (125 CREDITS)**

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<tr>
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<th>Course Title</th>
<th>Credits</th>
<th>Grade</th>
<th>Quarter</th>
<th>Year</th>
<th>College/University</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>FAA AMT Airframe Rating OR Students with an AMT Certificate with Airframe Rating (or Aviation Program Certificate) may be awarded sixty (60) credits after completing 30 required credits at EvCC</td>
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**FAA AMT Airframe Rating OR Students with an AMT Certificate with Airframe Rating (or Aviation Program Certificate) may be awarded sixty (60) credits after completing 30 required credits at EvCC | 60      |       |         |      |                     |        |         |
ASSOCIATE IN APPLIED SCIENCES – TRANSFER

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>□ Completion of Diversity Course</td>
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<tr>
<td>A&amp;P LICENSE: Student with and A&amp;P License from a FAR</td>
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<tr>
<td>Part 147 school may be awarded 45 credits by EvCC after completing 30 required credits at EvCC. Utilizing the A&amp;P License option for this transfer degree requires completion of 15 additional elective credits (which can be A&amp;P courses in General, Airframe, and Powerplant)</td>
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<tr>
<td>A&amp;P CERTIFICATE: Students completing EvCC’s A&amp;P program may be awarded up to 160 elective credits towards this transfer degree.</td>
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<tr>
<td>ENGL&amp; 101 or ENGL&amp; 101D (See Note A)</td>
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<tr>
<td>MATH&amp; 141</td>
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<tr>
<td>Humanities (CMST course) (See Note B and Note 2)</td>
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<td>Social Sciences (See Note C)</td>
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<tr>
<td>Natural Sciences (See Note D and Note 2)</td>
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<tr>
<td>Electives (See Notes D and E)</td>
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NOTES FOR CERTIFICATE AND DEGREES

Note 2: Humanities, Social Science and Natural Science courses must be selected from the approved list for the Associate in Arts and Sciences DTA – degree.

Note 3: (CP) computer proficiency; (CS) computation skills; (HR/IC) human relations and interpersonal communications; (WS) writing skills, (H) humanities, (SS) social sciences, (NS) natural sciences.

Note 4: These checklists are designed for students with an interest in earning a certificate or degree in Aviation Maintenance Technology. A checklist should be maintained by the student while at Everett Community College. The quarter before expected completion, the checklist should be submitted by the student, with a diploma application, to the Enrollment Services Office. All certificate requirements are listed in the Catalog, including the completion of the minimum credits, with a minimum 2.0 GPA.

Note 5: Courses included FAA approved Part 147 curriculum.

Courses listed with an ampersand in the course number (e.g. ENGL& 101) reflect the Common Course Numbering System. For more information, got to www.everettcc.edu/ccn

Note: Transfer courses to Embry-Riddle Aeronautical University (ERAU) also exist. ERAU does not provide a degree transfer articulation agreement, however a list of equivalency classes for transfer are available at the Aviation program main office or through ERAU. Please consult with an ERAU advisor for specific information regarding their program and transfer courses.

Note: Eastern Kentucky University (EKU) BS Aviation – Aerospace Technology (AT) concentration will accept a maximum of 26 semester hours (39 quarter hours) of aviation technical electives in Powerplant courses. Powerplant courses must include Turbine Engine Theory. Transfer students are not to take BTO 100. Aviation courses that are equivalent to EKU’s AVN Tech Electives but are in excess of the 26 semester hours (39 quarter hours) total, may be accepted and posted to satisfy the EKU BS minimum degree requirements of 120 semester hours.

Note A: Students transferring to Eastern Kentucky University must also complete ENGL& 102.

Note B: Students transferring to Clover Park Technical College are recommended CMST& 220 as the Humanities Course. Students transferring to Eastern Kentucky University are required to take CMST& 210 as their Humanities Course.

Note C: Students transferring to Eastern Kentucky University must complete ECON& 201.

Note D: Students transferring to Clover Park Technical College are recommended PHYS& 114 as the Natural Science-Lab Course and are also required to take MATH& 146 for a total of 10 Natural Science credits.

Note E: Students transferring to Eastern Kentucky University must complete CL 101 and the General Aviation and Powerplant courses (5 quarters) through the EvCC AMT program. Students must complete Turbine Engine Theory (Powerplant course) successfully for transfer.

Note F: Beyond the Associate’s Degree, Eastern Kentucky University provides the opportunity to complete a section of courses at EvCC or EKU, meeting EKU’s Bachelor of Science in Aviation requirements. Referred to as “Bridge Courses,” they are not required for the AAS-T degree or for admission to EKU. These courses are above and beyond the AAS-T degree requirements and are financial aid eligible within the federal guidelines. Please check with the EvCC’s Financial Aid Office to ensure guidelines are met or if choosing to take the Bridge Courses through EKU, through their Financial Aid Office.

Any ATA Degree can be applied toward a Bachelor of Applied Science in Information Technology and Administrative Management (ITAM) through Central Washington University on the EvCC campus. For more information, go to www.everett.wsu.edu.
Three Year Sample Student Schedule

<table>
<thead>
<tr>
<th>2 Quarters</th>
<th>8 Quarters</th>
<th>2 Quarters</th>
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<tbody>
<tr>
<td>ADVANCED AVIONICS OR GENERAL ED.</td>
<td>GENERAL AVIATION CURRICULUM (2 Quarters) (pre-req. to Powerplant and Airframe)</td>
<td>Powerplant OR Airframe</td>
</tr>
<tr>
<td>Powerplant OR Airframe</td>
<td>Airframe OR Powerplant</td>
<td>GENERAL ED. OR ADVANCED AVIONICS</td>
</tr>
</tbody>
</table>