AVIATION MAINTENANCE TECHNICIAN, ASSOCIATE IN APPLIED SCIENCE

This program will begin accepting new students for Spring 2024.

The Aviation Maintenance program provides general aircraft, sheet metal, airframe, and powerplant courses that meet the Federal Aviation Administration requirements. The program provides practical skills and work-based learning opportunities to ensure professional growth in the competitive aviation profession.

Upon completion of the program students will be prepared for full FAA certification as Aviation Maintenance Mechanics.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong>¹</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 101</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>IAI approved Social/Behavioral Science (<a href="https://catalog.ccc.edu/iai-gecc/">link</a>)</td>
<td>3</td>
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<tr>
<td>IAI approved GECC math course (<a href="https://catalog.ccc.edu/iai-gecc/">link</a>)</td>
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<tr>
<td>IAI approved GECC physical science course (<a href="https://catalog.ccc.edu/iai-gecc/">link</a>)</td>
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<tr>
<td>IAI approved Hum/FineArts course (<a href="https://catalog.ccc.edu/iai-gecc/">link</a>)</td>
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<td><strong>Required Program Core</strong></td>
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<tr>
<td>AVIATN 101</td>
<td>Aviation General Sciences I-Math, Science and General Physics</td>
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<tr>
<td>AVIATN 102</td>
<td>Aviation General Sciences II - Tools, Surfaces, and Corrosion Control</td>
<td>5</td>
</tr>
<tr>
<td>AVIATN 103</td>
<td>Aviation General Sciences III - Maintenance Operations and Records</td>
<td>5</td>
</tr>
<tr>
<td>AVIATN 104</td>
<td>Aviation General Sciences IV - Basic Electricity</td>
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<tr>
<td>AVIATN 200</td>
<td>Aviation Sheet Metal</td>
<td>8</td>
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<tr>
<td>AVIATN 205</td>
<td>Metallic Structures¹</td>
<td>3</td>
</tr>
<tr>
<td>AVIATN 206</td>
<td>Electrical, Navigational, and Communication Systems¹</td>
<td>3</td>
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<tr>
<td>AVIATN 207</td>
<td>Non-Metallic Structures¹</td>
<td>3</td>
</tr>
<tr>
<td>AVIATN 208</td>
<td>Aircraft Systems I¹</td>
<td>3</td>
</tr>
<tr>
<td>AVIATN 209</td>
<td>Aircraft Systems II¹</td>
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<tr>
<td>AVIATN 213</td>
<td>Aircraft Systems III¹</td>
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<td>AVIATN 214</td>
<td>Reciprocating Engines¹</td>
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<td>AVIATN 215</td>
<td>Turbine Engines¹</td>
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<td>AVIATN 216</td>
<td>Powerplant Systems I¹</td>
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<tr>
<td>AVIATN 217</td>
<td>Powerplant Systems II¹</td>
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<td>AVIATN 218</td>
<td>Aircraft Propellers and Inspections¹</td>
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<td>AVIATN 219</td>
<td>Aviation Maintenance Technician Capstone¹</td>
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<td></td>
<td><strong>Total Hours</strong></td>
<td>80</td>
</tr>
</tbody>
</table>

¹ Taken at the Aviation Institute of Maintenance

One course must satisfy the Human Diversity (HD) requirement

Pathway

This is an example course sequence for students interested in earning a Associate in Applied Science in Aviation Maintenance Technician. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Aviation Maintenance Technician - General and an AAS in Aviation.
Maintenance Technician. It does not represent a contract, nor does it guarantee course availability.

### Semester-by-Semester Program Plan

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AVIATN 101</td>
<td>Aviation General Sciences I - Math, Science and General Physics</td>
<td>5</td>
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<td>IAI approved Hum/FineArts course (<a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a>)</td>
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<tr>
<td></td>
<td></td>
<td>IAI approved GECC physical science course (<a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a>)</td>
<td>3</td>
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<tr>
<td>2</td>
<td>AVIATN 102</td>
<td>Aviation General Sciences II - Tools, Surfaces, and Corrosion Control</td>
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<tr>
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<td>IAI approved GECC math course (<a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a>)</td>
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<td>3</td>
</tr>
<tr>
<td>3</td>
<td>AVIATN 103</td>
<td>Aviation General Sciences III - Maintenance Operations and Records</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>AVIATN 104</td>
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<td></td>
<td>ENGLISH 101</td>
<td>Composition</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>AVIATN 200</td>
<td>Aviation Sheet Metal</td>
<td>8</td>
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<tr>
<td>5</td>
<td>AVIATN 205</td>
<td>Metallic Structures</td>
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<td>AVIATN 206</td>
<td>Electrical, Navigational, and Communication Systems</td>
<td>3</td>
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<tr>
<td></td>
<td>AVIATN 207</td>
<td>Non-Metallic Structures 2</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>AVIATN 208</td>
<td>Aircraft Systems I 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AVIATN 209</td>
<td>Aircraft Systems II 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>AVIATN 213</td>
<td>Aircraft Systems III 2</td>
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<td>AVIATN 219</td>
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<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 80

1. General Education Requirement (one course must satisfy the Human Diversity (HD) (https://catalog.ccc.edu/hd/) requirement)

2. Taken at the Aviation Institute of Maintenance

### Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (https://www.ccc.edu/departments/Pages/Career-Services.aspx).

#### Aircraft Mechanics and Service Technicians

**Job Description**

Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems.

#### Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County.

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

**Annual Wages**

- **Entry-Level 10th Percentile**: $51,347
- **Median 50th Percentile**: $79,919
- **Senior-Level 90th Percentile**: $138,093

**Hourly Wages**

- **Entry-Level 10th Percentile**: $25
- **Median 50th Percentile**: $38
- **Senior-Level 90th Percentile**: $66

**Annual Job Openings**

249 annual openings in Cook County

**National Education Attainment**

Here, you can see the level of education that people in this career complete.

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>% of Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A high school diploma or less</td>
<td>12.37%</td>
</tr>
<tr>
<td>A certificate</td>
<td>60.33%</td>
</tr>
<tr>
<td>Some college</td>
<td>0.00%</td>
</tr>
<tr>
<td>An Associate degree</td>
<td>24.80%</td>
</tr>
<tr>
<td>A Bachelor's degree</td>
<td>2.50%</td>
</tr>
<tr>
<td>A Master's or Professional degree</td>
<td>0.00%</td>
</tr>
<tr>
<td>A Doctoral degree or more</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

2.50% continue their education beyond an associate degree