

# AVIATION MAINTENANCE TECHNICIAN, ASSOCIATE IN APPLIED SCIENCE



College(s): OH

Program Code: 0445

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

Code	Title	Hours
<b>General Education Requirements <sup>2</sup></b>		
ENGLISH 101	Composition	3
IAI approved Social/Behavioral Science ( <a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a> )		
		3
IAI approved GECC math course ( <a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a> )		
		4
IAI approved GECC physical science course ( <a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a> )		
		3
IAI approved Hum/FineArts course ( <a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a> )		
		3
<b>Required Program Core</b>		
AVIATN 101	Aviation General Sciences I-Math, Science and General Physics	5
AVIATN 102	Aviation General Sciences II - Tools, Surfaces, and Corrosion Control	5

AVIATN 103	Aviation General Sciences III - Maintenance Operations and Records	5
AVIATN 104	Aviation General Sciences IV - Basic Electricity	5
AVIATN 200	Aviation Sheet Metal	8
AVIATN 205	Metallic Structures <sup>1</sup>	3
AVIATN 206	Electrical, Navigational, and Communication Systems <sup>1</sup>	3
AVIATN 207	Non-Metallic Structures <sup>1</sup>	3
AVIATN 208	Aircraft Systems I <sup>1</sup>	3
AVIATN 209	Aircraft Systems II <sup>1</sup>	3
AVIATN 213	Aircraft Systems III <sup>1</sup>	3
AVIATN 214	Reciprocating Engines <sup>1</sup>	3
AVIATN 215	Turbine Engines <sup>1</sup>	3
AVIATN 216	Powerplant Systems I <sup>1</sup>	3
AVIATN 217	Powerplant Systems II <sup>1</sup>	3
AVIATN 218	Aircraft Propellers and Inspections <sup>1</sup>	3
<b>Required Work-Based Learning Courses</b>		
AVIATN 219	Aviation Maintenance Technician Capstone <sup>1</sup>	3
<b>Total Hours</b>		<b>80</b>

<sup>1</sup> Taken at the Aviation Institute of Maintenance

<sup>2</sup> 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

Semester 1		Hours
AVIATN 101	Aviation General Sciences I-Math, Science and General Physics	5
IAI approved Hum/FineArts course ( <a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a> ) <sup>1</sup>		3
IAI approved GECC physical science course ( <a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a> ) <sup>1</sup>		3
<b>Hours</b>		<b>11</b>
Semester 2		Hours
AVIATN 102	Aviation General Sciences II - Tools, Surfaces, and Corrosion Control	5
IAI approved GECC math course ( <a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a> ) <sup>1</sup>		4
IAI approved Social/Behavioral Science ( <a href="https://catalog.ccc.edu/iai-gecc/">https://catalog.ccc.edu/iai-gecc/</a> ) <sup>1</sup>		3
<b>Hours</b>		<b>12</b>
Semester 3		Hours
AVIATN 103	Aviation General Sciences III - Maintenance Operations and Records	5
AVIATN 104	Aviation General Sciences IV - Basic Electricity	5
ENGLISH 101	Composition <sup>1</sup>	3
<b>Hours</b>		<b>13</b>
Semester 4		Hours
AVIATN 200	Aviation Sheet Metal	8
<b>Hours</b>		<b>8</b>
Semester 5		Hours
AVIATN 205	Metallic Structures	3
AVIATN 206	Electrical, Navigational, and Communication Systems	3
AVIATN 207	Non-Metallic Structures <sup>2</sup>	3
<b>Hours</b>		<b>9</b>
Semester 6		Hours
AVIATN 208	Aircraft Systems I <sup>2</sup>	3
AVIATN 209	Aircraft Systems II <sup>2</sup>	3
AVIATN 213	Aircraft Systems III <sup>2</sup>	3
<b>Hours</b>		<b>9</b>
Semester 7		Hours
AVIATN 214	Reciprocating Engines <sup>2</sup>	3
AVIATN 215	Turbine Engines <sup>2</sup>	3
AVIATN 216	Powerplant Systems I <sup>2</sup>	3
<b>Hours</b>		<b>9</b>
Semester 8		Hours
AVIATN 217	Powerplant Systems II <sup>2</sup>	3
AVIATN 218	Aircraft Propellers and Inspections <sup>2</sup>	3
AVIATN 219	Aviation Maintenance Technician Capstone <sup>2</sup>	3
<b>Hours</b>		<b>9</b>
<b>Total Hours</b>		<b>80</b>

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

<sup>2</sup> 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 10 <sup>th</sup> Percentile	\$51,208
Median 50 <sup>th</sup> Percentile	\$79,700
Senior-Level 90 <sup>th</sup> Percentile	\$137,881

#### Hourly Wages

Entry-Level 10 <sup>th</sup> Percentile	\$25
Median 50 <sup>th</sup> Percentile	\$38
Senior-Level 90 <sup>th</sup> Percentile	\$66

### Annual Job Openings

295 annual openings in Cook County

### National Education Attainment

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

Degree Program	% of Jobs
A high school diploma or less	12.37%
A certificate	60.33%
Some college	0.00%
An Associate degree	24.80%
A Bachelor's degree	2.50%
A Master's or Professional degree	0.00%
A Doctoral degree or more	0.00%

2.50% continue their education beyond an associate degree