Aviation Technology Pathway

Aviation technology includes the design, production, repair, and maintenance of all types of aircraft. Employees with aviation technology degrees are highly sought after for careers in the aviation industry, manufacturing, and maintenance, repair and overhaul, in northern Illinois and nationwide.

Potential Careers in Transportation Technology (RPS 205)
- Airplane Pilot/Co-Pilot
- Air Traffic Controller
- Avionics Technician
- Cargo and Freight Agent
- Customs Inspector
- Environmental Manager
- Facility Engineer
- Industrial Equipment Mechanic
- Industrial and Packaging Engineer
- International Logistics Specialist
- Safety Analyst
- Storage and Distribution Manager
- Urban and Regional Planner

Potential Careers in Aviation Maintenance (Rock Valley College)
- Aviation engine mechanic
- Airframe mechanic
- Sheet metal construction and repair
- Reciprocating and turbine engine repair

Graduates with a Bachelor of Science, Aviation Management Technology (NIU) find careers at companies like
- Lockheed Martin
- McDonnell Douglas
- Hamilton Sundstrand
  (UTC Aerospace Systems)
- Chicago’s O’Hare and Midway
- International Airports
  • Ingersoll
  • Motorola
  • Siemens
  • Underwriters Labs
- Woodward

Did you know...

584,000 new maintenance technicians will be needed to maintain the world fleet over the next 20 years.
Source: The 2014 Boeing Pilot & Technician Outlook

$55,980 – median salary of an aircraft mechanic
Source: Bureau of Labor Statistics

Rock Valley College has a state-of-the-art Aviation Maintenance Educational Facility, scheduled to open Fall 2015 at Chicago Rockford International Airport.

All required 300-400 courses in NIU’s Aviation Management Technology program are offered online.

Your pathway to completion

4 Semesters
Coursework at Rockford Public Schools – EMITT Academy Transportation Technology Pathway

6 Semesters
Coursework at Rock Valley College
Associates Degree (AAS) – Aviation Maintenance, including completion of FAA Airframe and Power Plant Certificates

2 Semesters
Coursework at Northern Illinois University
Bachelor of Science, NIU Aviation Management Technology Requires Associates Degree (AAS) – Aviation Maintenance

See back panel for more specific program requirements >>

General Contact Information

NORTHERN ILLINOIS REGIONAL P-20 Network
Aviation Technology Pathway Model

The table below shows the courses that, if taken in this sequence, should result in completion of the program in the least amount of time while evenly distributing the course load. Some courses are prerequisites for the courses that follow in the sequence and are subject to change. Please consult your institution’s advising staff for the latest program requirements when registering for courses. Missing coursework will hinder a students’ progress in the program. To progress seamlessly from one institution to the next, students should obtain a degree from the first institution. All plans of study should meet local and state high school graduation requirements, general education requirements, and prerequisites for advanced courses.

### For more information about Rockford Public School’s – EMITT Academy Transportation Technology program, contact Dave Carson
Executive Director, College and Career Readiness
815-966-3123

### For more information about the Rock Valley College Aviation Maintenance Technology program, contact Mark Adolphson
Academic Chair, Aviation Technology
815-921-3015

### For more information about NIU’s Bachelor of Science, Aviation Management Technology Program, contact Stacey Deegan
Program Advisor
815-753-9943

#### To read this table –
Each column represents a single grade year or semester as noted. Summer coursework may be necessary for some students. All information was taken from online materials published by each institution on its website in February, 2015.

<table>
<thead>
<tr>
<th>RPS 205 - EMITT Academy Transportation Technology</th>
<th>RVC - Aviation Maintenance Technology</th>
<th>NIU - Bachelor of Science, Aviation Management Technology</th>
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</thead>
<tbody>
<tr>
<td>Grade 9</td>
<td>Freshman Seminar</td>
<td>Orientation to Transportation</td>
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<td>Grade 10</td>
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<td>Grade 11</td>
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<td>Grade 12</td>
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<tr>
<td>Semester Elective</td>
<td>Exploring Engineering (Semester Elective)</td>
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** Recommended Electives:** Exploring Engineering, Aerospace, Introduction to Industrial Tech and Engineering

**Recommended out of school experiences in workplaces, weekend and summer activities:**

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**RVC Aviation Maintenance Technology**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
<th>Semester 4</th>
<th>Semester 5</th>
<th>Semester 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft Fuel Systems (AVM-249)*</td>
<td>Landing Gear Systems (AVM-251)</td>
<td>Composition I (ENG-101)</td>
<td>Aircraft Welding (AVM-243)</td>
<td>Introduction to Technical Writing (ENG-110) or Fundamentals of Communication (SPH-131) or Composition II (ENG-103)</td>
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<tr>
<td>Assembly &amp; Rigging (AVM-250)*</td>
<td>Aircraft Auxiliary Systems (AVM-244)</td>
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**RVC Engineering Technology**

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**RVC Aerospace Systems**

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**Recommended Electives**

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**Other Notes:**

- AVM 101, 105 and 106 must be taken concurrently.
- AVM 246, 248 and 250 must be taken concurrently.

**Technology Electives (Choose 2)**

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<th>Semester 1</th>
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