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## **Innovations' College and Career Awareness Preparatory Academies**

### **Aviation**

#### **Grade 9**

Aviation 101 – Introduction to Aviation and Aerospace  
Taking Flight – Early Aviation Innovations  
Rapid Developments in Powered Flight  
Making Jet and Space Travel Possible  
What's New and Next in Aviation and Aerospace  
Aviation Safety and Oversight  
Exploring Careers in Aviation and Aerospace  
Aviation Innovation and Problem Solving  
Innovation Challenge  
Careers in Aviation

#### **Grade 10**

Aviation 201 - Getting to Know Aircraft  
How Aircraft are Made  
Understanding Air  
Forces of Flight  
Aircraft Stability and Control  
Career Skills – Planning for Careers in Aviation and Aerospace  
Aircraft Systems and Performance – Propulsion  
Airframe Systems  
Avionics and Flight Instruments  
Required Documentation  
Semester Project

## Grade 11

Aviation 301 - Aviation Weather Theory  
Aviation Weather Services  
Airport Operations  
Introduction to Aeronautical Charts and Airspace  
Pilot and Aircraft Qualifications  
Cross-country Flight Planning  
Weight and Balance  
Performance and Limitations  
Human Factors  
Night Operations  
Navigation Systems  
Aeronautical Decision Making  
Small Unmanned Aircraft Performance  
Emergency Procedures  
Crew Management and Preflight Inspection Procedures  
Flight Planning – Federal Aviation Administration's Private Pilot Exam

## Grade 12

Aviation 401 – To Be Announced

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