



## COURSE OUTLINE: ATQ121 - AIR OPERATIONS

Prepared: Jim Cairns

Approved: Greg Farish, Chair, Aviation Technology - Flight

<b>Course Code: Title</b>	ATQ121: AIR OPERATIONS
<b>Program Number: Name</b>	4161: AVIATION TECHNIQUES
<b>Department:</b>	CONTROL - SAULT
<b>Semesters/Terms:</b>	21W
<b>Course Description:</b>	Air Operations is designed to provide an overview of Canadian Aviation Regulations, air traffic procedures, aircraft operations, radio aids, and flight planning. This course is recommended for students who are considering the Aviation Technology-Flight program in the future. This course, combined with navigation and weather fundamentals, aviation electronics, and aviation motive power, consists of the common body of knowledge required to pass both of Transport Canada's Flight Dispatcher's examinations
<b>Total Credits:</b>	2
<b>Hours/Week:</b>	2
<b>Total Hours:</b>	30
<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Essential Employability Skills (EES) addressed in this course:</b>	<p>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 3 Execute mathematical operations accurately.</p> <p>EES 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p> <p>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>EES 10 Manage the use of time and other resources to complete projects.</p> <p>EES 11 Take responsibility for ones own actions, decisions, and consequences.</p>
<b>Course Evaluation:</b>	<p>Passing Grade: 50%,</p> <p>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</p>
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	Attendance and participation bonus up to 5% will be granted.

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2020-2021 academic year.



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**Books and Required Resources:**

Canadian Aviation Regulations  
 Publisher: Transport Canada  
<https://www.tc.gc.ca/en/transport-canada/corporate/acts-regulations/regulations/sor-96-433.htm>

Aeronautical Information Manual  
 Publisher: Transport Canada  
<https://www.tc.gc.ca/en/services/aviation/publications/tc-aim.html>

Human Factors for Aviation - Basic Handbook (TP 12863E)  
 Publisher: Transport Canada  
 ISBN: 0660166550

From the Ground Up, 29th Edition  
 Publisher: Aviation Publishers Edition: 29  
 ISBN: 0973003634

**Course Outcomes and Learning Objectives:**

<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
Air law and procedures	Understanding of the material defined in Transport Canada document # TP12513E
<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>
Airframes, propellers, and aircraft systems	Understanding of the material defined in Transport Canada document # TP12513E.
<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
Aviation instruments	Understanding of the material defined in Transport Canada document # TP12513E
<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
Radio communications and aids to navigation	Understanding of the material defined in Transport Canada document # TP12513E
<b>Course Outcome 5</b>	<b>Learning Objectives for Course Outcome 5</b>
Flight operations	Understanding of the material defined in Transport Canada document # TP12513E
<b>Course Outcome 6</b>	<b>Learning Objectives for Course Outcome 6</b>
Theory of flight	Understanding of the material defined in Transport Canada document # TP12513E
<b>Course Outcome 7</b>	<b>Learning Objectives for Course Outcome 7</b>
Human Factors	Understanding of the material defined in Transport Canada document # TP12513E

**Evaluation Process and Grading System:**

<b>Evaluation Type</b>	<b>Evaluation Weight</b>
Final Exam	40%
Independent Study	10%
Midterm	30%

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	Quizzes	20%
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**Date:** December 18, 2020

**Addendum:** Please refer to the course outline addendum on the Learning Management System for further information.

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