



## COURSE OUTLINE: AVF245 - AIRFRAMES, ENGINES II

Prepared: JOHN PORTAS

Approved: Greg Mapp, Chair, Aviation Technology - Flight

<b>Course Code: Title</b>	AVF245: AIRFRAMES, ENGINES AND INSTRUMENTS II
<b>Program Number: Name</b>	4061: AVIATION TECHNOLOGY
<b>Department:</b>	AVIATION TECHNOLOGY
<b>Semesters/Terms:</b>	18F
<b>Course Description:</b>	A study of engines and airframes including the internal combustion engine and the basic gas turbine engine, fuels and fuel systems, lubrication and oil, ignition systems, engine instruments, propellers, airframes, and electrical systems at the Commercial Pilot Level.
<b>Total Credits:</b>	2
<b>Hours/Week:</b>	2
<b>Total Hours:</b>	24
<b>Prerequisites:</b>	AFT120, AVF122, AVT123, ELR104
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>This course is a pre-requisite for:</b>	AFT250, AVT252, AVT253, AVT257, AVT259
<b>Essential Employability Skills (EES) addressed in this course:</b>	<p>EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <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>General Education Themes:</b>	Science and Technology
<b>Course Evaluation:</b>	Passing Grade: 70%, B
<b>Books and Required Resources:</b>	PROFESSOR NOTES by PROFESSOR NOTES FROM THE GROUND UP by MCDONALD



SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554

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**Course Outcomes and Learning Objectives:**

<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
Understand the need for well developed airmanship skills when operating in severe weather conditions or in the vicinity of larger aircraft and the hazards they impose to both pilot and aircraft .	Apply material understanding to the safe operation of aircraft

**Evaluation Process and Grading System:**

<b>Evaluation Type</b>	<b>Evaluation Weight</b>	<b>Course Outcome Assessed</b>
FINAL EXAM	40%	
MIDTERM EXAM	30%	
QUIZZES	30%	

**Date:**

July 30, 2018

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

