



## COURSE OUTLINE: AVT378 - HUMAN FACTORS-SAFETY

Prepared: JOHN PORTAS

Approved: Greg Mapp, Chair, Aviation Technology - Flight

<b>Course Code: Title</b>	AVT378: SAFETY AND HUMAN FACTORS	
<b>Program Number: Name</b>	4061: AVIATION TECHNOLOGY	
<b>Department:</b>	AVIATION TECHNOLOGY	
<b>Semesters/Terms:</b>	20W	
<b>Course Description:</b>	This is the third human factors course. You will continue to develop the skills required for a safe and successful mission. Some of the topics covered are judgment and decision-making, error analyses using Reason's model, safety management program and two crew operations.	
<b>Total Credits:</b>	3	
<b>Hours/Week:</b>	4	
<b>Total Hours:</b>	60	
<b>Prerequisites:</b>	AFT240, AVT361, AVT363, AVT364, AVT366, AVT369	
<b>Corequisites:</b>	There are no co-requisites for this course.	
<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>Course Evaluation:</b>	Passing Grade: 70%, B	
<b>Books and Required Resources:</b>	HUAMN FACTORS ADVANCED ISBN: 0660166569	
<b>Course Outcomes and Learning Objectives:</b>	<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
	The student will have acquired communication	Investigate an accident to identify failures in both the



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	and decision making skills working in a multi crew environment as well as reviewing aircraft accidents and incidents with the objective of maintaining safe procedures.	pre-condition and productive activity levels (Reasons model). Develop personal strategies which can help you avoid the same pitfall. Explain how you intend to apply your personal defense strategy
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**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
FINAL EXAM	40%
MIDTERM EXAM	30%
QUIZZES	30%

**Date:** August 1, 2019

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