



COURSE OUTLINE: AVT378 - HUMAN FACTORS-SAFETY

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Approved: Greg Mapp, Chair, Aviation Technology - Flight

Course Code: Title	AVT378: SAFETY AND HUMAN FACTORS	
Program Number: Name	4061: AVIATION TECHNOLOGY	
Department:	AVIATION TECHNOLOGY	
Semesters/Terms:	19W	
Course Description:	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.	
Total Credits:	3	
Hours/Week:	4	
Total Hours:	60	
Prerequisites:	AFT240, AVT361, AVT363, AVT364, AVT366, AVT369	
Corequisites:	There are no co-requisites for this course.	
Essential Employability Skills (EES) addressed in this course:	<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>	
Course Evaluation:	Passing Grade: 70%, B	
Books and Required Resources:	HUAMN FACTORS ADVANCED ISBN: 0660166569	
Course Outcomes and Learning Objectives:	Course Outcome 1	Learning Objectives for Course Outcome 1
	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	Course Outcome Assessed
	FINAL EXAM	40%	
	MIDTERM EXAM	30%	
	QUIZZES	30%	

Date: August 27, 2018

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