



COURSE OUTLINE: AVT378 - HUMAN FACTORS-SAFETY

Prepared: JOHN PORTAS

Approved: Greg Farish, Chair, Aviation Technology - Flight

Course Code: Title	AVT378: SAFETY AND HUMAN FACTORS
Program Number: Name	4061: AVIATION TECHNOLOGY
Department:	AVIATION TECHNOLOGY
Semesters/Terms:	21W
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:	<div>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.</div> <div>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</div> <div>EES 3 Execute mathematical operations accurately.</div> <div>EES 4 Apply a systematic approach to solve problems.</div> <div>EES 5 Use a variety of thinking skills to anticipate and solve problems.</div> <div>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.</div> <div>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</div> <div>EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.</div> <div>EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</div> <div>EES 10 Manage the use of time and other resources to complete projects.</div> <div>EES 11 Take responsibility for ones own actions, decisions, and consequences.</div>
Course Evaluation:	<div>Passing Grade: 70%, B</div> <div>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</div>
Books and Required Resources:	HUAMN FACTORS ADVANCED ISBN: 0660166569

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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Course Outcomes and Learning Objectives:	<table border="1"> <tr> <th data-bbox="505 173 803 210">Course Outcome 1</th><th data-bbox="803 173 1451 210">Learning Objectives for Course Outcome 1</th></tr> <tr> <td data-bbox="505 210 803 451">The student will have acquired communication 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.</td><td data-bbox="803 210 1451 451">Investigate an accident to identify failures in both the 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</td></tr> </table>	Course Outcome 1	Learning Objectives for Course Outcome 1	The student will have acquired communication 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.	Investigate an accident to identify failures in both the 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:	<table border="1"> <tr> <th data-bbox="505 475 691 512">Evaluation Type</th><th data-bbox="691 475 899 512">Evaluation Weight</th></tr> <tr> <td data-bbox="505 512 691 548">FINAL EXAM</td><td data-bbox="691 512 899 548">40%</td></tr> <tr> <td data-bbox="505 548 691 585">MIDTERM EXAM</td><td data-bbox="691 548 899 585">30%</td></tr> <tr> <td data-bbox="505 585 691 626">QUIZZES</td><td data-bbox="691 585 899 626">30%</td></tr> </table>	Evaluation Type	Evaluation Weight	FINAL EXAM	40%	MIDTERM EXAM	30%	QUIZZES	30%
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Date:	June 11, 2020								
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.								

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