

COURSE OUTLINE: AVT378 - HUMAN FACTORS-SAFETY

Prepared: ANDREA COLLINS 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:	22W		
Course Description:	This is the third human factors course. You will continue to develop the skills required for a safe and successful aviation career. Some of the topics covered are aviation physiology, aviation psychology, pilot-equipment/materials relationship, CFIT and threat and error management.		
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:	 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. EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 6 Locate, select, organize, and document information using appropriate technology and information systems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others. EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences. 		
Course Evaluation:	Passing Grade: 70%, B A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.		
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 2021-2022 academic year.

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Course Outcomes and	Course Outcome 1	earning Objectives for Course Outcome 1
Learning Objectives:	acquired communication T and decision making skills A required to succeed in the - aviation industry, as well as, - review aircraft accidents and - incidents. - F - - -	Human Factors and Airmanship as applicable to the INRAT. Fopics include, Aviation Physiology Hypoxia/hyperventilation Orientation/disorientation/visual and vestibular illusions Sleep/fatigue Aviation Psychology Decision-making process Factors that influence decision-making Situational awareness Pilot - Equipment/Materials Relationship Controls and displays - errors in interpretation and control Cockpit visibility - seat position Correct use of charts, checklists, manuals Automation advantages/threats Controlled Flight into Terrain Threat Error Management Threats and errors in IFR flight
Evaluation Process and Grading System:	Evaluation Type Evaluation	Weight
	ASSIGNMENT(S) 15%	
	FINAL EXAM 35%	
	MIDTERM EXAM 25%	
	PARTICIPATION 5%	
	QUIZZES 20%	
Date:	January 7, 2022	
Addendum:	Please refer to the course outlin information.	ne addendum on the Learning Management System for further

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