



COURSE OUTLINE

AVT378

Prepared: JOHN PORTAS Approved: GREG MAPP

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| Course Code: Title | AVT378: SAFETY AND HUMAN FACTORS |
| Program Number: Name | 4061: AVIATION TECHNOLOGY |
| Department: | AVIATION TECHNOLOGY |
| Semester/Term: | 18W |
| 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 |
| Essential Employability Skills (EES): | <p>#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>#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>#3. Execute mathematical operations accurately.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p> <p>#6. Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>#7. Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>#8. Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>#9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>#10. Manage the use of time and other resources to complete projects.</p> <p>#11. Take responsibility for ones own actions, decisions, and consequences.</p> |
| General Education Themes: | <p>Social and Cultural Understanding</p> <p>Personal Understanding</p> <p>Science and Technology</p> |

| Course Evaluation: | Passing Grade: 70%, B | | | | | | | | |
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| Evaluation Process and Grading System: | <table border="1"> <thead> <tr> <th>Evaluation Type</th> <th>Evaluation Weight</th> </tr> </thead> <tbody> <tr> <td>FINAL EXAM</td> <td>40%</td> </tr> <tr> <td>MIDTERM EXAM</td> <td>30%</td> </tr> <tr> <td>QUIZZES</td> <td>30%</td> </tr> </tbody> </table> | Evaluation Type | Evaluation Weight | FINAL EXAM | 40% | MIDTERM EXAM | 30% | QUIZZES | 30% |
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| FINAL EXAM | 40% | | | | | | | | |
| MIDTERM EXAM | 30% | | | | | | | | |
| QUIZZES | 30% | | | | | | | | |
| Books and Required Resources: | HUAMN FACTORS ADVANCED ISBN: 0660166569 | | | | | | | | |
| Course Outcomes and Learning Objectives: | <p>Course Outcome 1.</p> <p>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.</p> <p>Learning Objectives 1.</p> <ul style="list-style-type: none"> â€¢ Investigate an accident to identify failures in both the pre-condition and productive activity levels (Reasonâ€™s model). â€¢ Develop personal strategies which can help you avoid the same pitfall. â€¢ Explain how you intend to apply your personal defense strategy | | | | | | | | |
| Date: | Thursday, February 8, 2018 | | | | | | | | |
| | Please refer to the course outline addendum on the Learning Management System for further information. | | | | | | | | |