



## COURSE OUTLINE: AVT377 - FLIGHT OPERATIONS

Prepared: Michael Nearing

Approved: Greg Farish, Dean, Aviation

<b>Course Code: Title</b>	AVT377: FLIGHT OPERATIONS
<b>Program Number: Name</b>	4061: AVIATION TECHNOLOGY
<b>Department:</b>	AVIATION TECHNOLOGY
<b>Academic Year:</b>	2023-2024
<b>Course Description:</b>	This course will examine more complex and often used systems and components of modern airliners. Digital Colour Radar and Enhanced Ground Proximity Warning Systems(EGPWS)will be covered. Other topics discussed are Traffic Alert and Collision Avoidance Systems (TCAS). Interpretations and limitations of these systems will be thoroughly analyzed. We will also touch on the North Atlantic Organized Track System (NAT). Also, a review the Minimum Equipment List (M.E.L.) requirements for Airline Operations will be explained.
<b>Total Credits:</b>	2
<b>Hours/Week:</b>	2
<b>Total Hours:</b>	30
<b>Prerequisites:</b>	AVT363, AVT369, AVT375
<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>	<p>Passing Grade: 70%, B</p> <p>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</p>



**Other Course Evaluation & Assessment Requirements:**

Attendance.

**Course Outcomes and Learning Objectives:**

Course Outcome 1	Learning Objectives for Course Outcome 1
The student will be able to interpret different display functions (Radar, TCAS, EGPWS) on the Nav Display (ND) and the Primary Flight Display (PFD). After completion of this course, the operation and limitations of these systems will be identified and defined so the student will be cognizant of known pitfalls.	The objectives of this course is to examine various modern electronic components and systems that enhance flight safety. The class will be expected to follow and apply proper and accepted procedures from the manufacturer and other governing bodies. System capabilities will also be illustrated. The student should be able to recognize different displays on the flight instruments and distinguish various priorities. Also be made aware of certain acronyms related to the Airbus Aircraft.

**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
Assignment	30%
Final Exam	35%
Participation	5%
Quizzes	30%

**Date:**

December 8, 2023

**Addendum:**

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

