



COURSE OUTLINE

AVF245

1

Prepared: JOHN PORTAS Approved: GREG MAPP

Course Code: Title	AVF245: AIRFRAMES, ENGINES AND INSTRUMENTS II
Program Number: Name	4061: AVIATION TECHNOLOGY
Department:	AVIATION TECHNOLOGY
Course Description:	A study of engines and airframes including the internal combustion engine and the basic gas turbine engine, fuels and fuel systems, lubrication and oil, ignition systems, engine instruments, propellers, airframes, and electrical systems at the Commercial Pilot Level.
Total Credits:	2
Hours/Week:	2
Total Hours:	24
Prerequisites:	AVF115
This course is a pre-requisite for:	AFT250, AVT257, AVT363, AVT375
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>



COURSE OUTLINE

AVF245

2

Prepared: JOHN PORTAS Approved: GREG MAPP

	<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:	Science and Technology
Course Evaluation:	Passing Grade: 70%, B
Evaluation Process and Grading System:	<p>FINAL EXAM is 40% of the total grade</p> <p>MIDTERM EXAM is 30% of the total grade</p> <p>QUIZZES is 30% of the total grade</p>
Books and Required Resources:	<p>PROFESSOR NOTES by PROFESSOR NOTES</p> <p>FROM THE GROUND UP by MCDONALD</p> <p>Publisher: AVIATION PUBLISHERS Edition: 29</p> <p>ISBN: 0973003634</p>
Course Outcomes and Learning Objectives:	<p>Course Outcome 1.</p> <p>Understand the need for well developed airmanship skills when operating in severe weather conditions or in the vicinity of larger aircraft and the hazards they impose to both pilot and aircraft .</p> <p>Learning Objectives 1.</p> <p>Apply material understanding to the safe operation of aircraft</p>
Date:	Friday, July 14, 2017