COURSE OUTLINE: AVT257 - GENERAL KNOWLEDGE

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Approved: Greg Mapp, Chair, Aviation Technology - Flight

Course Code: Title	AVT257: GENERAL KNOWLEDGE FOR AVIATION
Program Number: Name	4061: AVIATION TECHNOLOGY
Department:	AVIATION TECHNOLOGY
Semesters/Terms:	20W
Course Description:	This course expands on the general knowledge of theory, aerodynamics, engines, airframes and instruments with a quantitative analysis and greater depth. Other topics relate to formulae and performance charts dealing with weight and balance, cruise performance, multi-engine operations, unusual attitudes, recognition of system failures and emergency procedures.
Total Credits:	1
Hours/Week:	1
Total Hours:	15
Prerequisites:	AFT120, AVF241, AVF242, AVF245, AVT248
Corequisites:	There are no co-requisites for this course.
This course is a pre-requisite for:	AFT360, AVT361, AVT363, AVT364, AVT366, AVT369
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
Books and Required Resources:	AERONAUTICAL INFORMATION MANUAL Publisher: TRANSPORT CANADA Edition: 2017-1-March 30, 2017 ISBN: 1715-7382/TP 14371E

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Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Upon successful completion of this course, the student will have obtained: 1. An in depth knowledge of engine mechanisms, airframe design and ancillary controls 2. An appreciation of how power and airframe design influence aerodynamic performance 3. The safety concerns in the use of industry standard performance charts 4. Demonstrate analytical skills to solve aircraft performance	As a result of completing the outcomes of the course the student will be 1. Apply technical skills toward improved aircraft performance 2. Recognize technical irregularities and take appropriate action

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
FINAL EXAM	40%
MIDTERM	30%
QUIZZES	30%

Date: August 1, 2019

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