



COURSE OUTLINE: AVT252 - NAVIGATION IV

Prepared: Louis St Pierre

Approved: Greg Farish, Dean, Aviation

Course Code: Title	AVT252: NAVIGATION IV
Program Number: Name	4061: AVIATION TECHNOLOGY
Department:	AVIATION TECHNOLOGY
Academic Year:	2023-2024
Course Description:	This course explores the remainder of the radio navigation aids not covered in AVT242 and puts to practice radio navigation as well as dead reckoning skills in preparation for writing the Transport Canada Commercial Written Exam (CPEAR).
Total Credits:	1
Hours/Week:	1
Total Hours:	15
Prerequisites:	AFT120, AVF241, AVF242, AVF245, AVT248
Corequisites:	There are no co-requisites for this course.
Substitutes:	AVF252
This course is a pre-requisite for:	AFT360
Essential Employability Skills (EES) addressed in this course:	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 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.
Other Course Evaluation & Assessment Requirements:	In order to be excused from class due to illness or other unforeseen circumstance, students must call the professor at extension 2666 and leave a message prior to the start of class. An email is also acceptable, but must be sent prior to the start of class. Students may request a deferment of a test for compassionate reasons. Compassionate Grounds for deferment will include but not be limited to death of an immediate family member, personal illness, or recent diagnosis of a serious illness of a family member. Make-ups will not be permitted after the fact for compassionate reasons. Dates of tests will be announced at least 1 week in advance.



	If a faculty member determines that a student is at risk of not being successful in their academic pursuits and has exhausted all strategies available to faculty, student contact information may be confidentially provided to Student Services in an effort to offer even more assistance with options for success. Any student wishing to restrict the sharing of such information should make their wishes known to the coordinator or faculty member.												
Books and Required Resources:	see Other resources are the same as from the prerequisite												
Course Outcomes and Learning Objectives:	<table border="1"> <thead> <tr> <th>Course Outcome 1</th> <th>Learning Objectives for Course Outcome 1</th> </tr> </thead> <tbody> <tr> <td>Use Radio Navigation aids</td> <td>Position fixes, identify position using cross bearings, identify waypoints and intersections, intercepting tracks and airways</td> </tr> <tr> <th>Course Outcome 2</th> <th>Learning Objectives for Course Outcome 2</th> </tr> <tr> <td>Apply dead reckoning and radio navigation</td> <td>Review of basic dead reckoning navigation, calculate time and distance using bearing changes, reciprocal track, radio reception range</td> </tr> <tr> <th>Course Outcome 3</th> <th>Learning Objectives for Course Outcome 3</th> </tr> <tr> <td>Demonstrate that they have the knowledge required to pass the navigation section of the Transport Canada Written Exam (CPAER)</td> <td>Final preparation for the Sault College Qualification exam and the Transport Canada exam</td> </tr> </tbody> </table>	Course Outcome 1	Learning Objectives for Course Outcome 1	Use Radio Navigation aids	Position fixes, identify position using cross bearings, identify waypoints and intersections, intercepting tracks and airways	Course Outcome 2	Learning Objectives for Course Outcome 2	Apply dead reckoning and radio navigation	Review of basic dead reckoning navigation, calculate time and distance using bearing changes, reciprocal track, radio reception range	Course Outcome 3	Learning Objectives for Course Outcome 3	Demonstrate that they have the knowledge required to pass the navigation section of the Transport Canada Written Exam (CPAER)	Final preparation for the Sault College Qualification exam and the Transport Canada exam
Course Outcome 1	Learning Objectives for Course Outcome 1												
Use Radio Navigation aids	Position fixes, identify position using cross bearings, identify waypoints and intersections, intercepting tracks and airways												
Course Outcome 2	Learning Objectives for Course Outcome 2												
Apply dead reckoning and radio navigation	Review of basic dead reckoning navigation, calculate time and distance using bearing changes, reciprocal track, radio reception range												
Course Outcome 3	Learning Objectives for Course Outcome 3												
Demonstrate that they have the knowledge required to pass the navigation section of the Transport Canada Written Exam (CPAER)	Final preparation for the Sault College Qualification exam and the Transport Canada exam												
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>50%</td> </tr> <tr> <td>Tests</td> <td>50%</td> </tr> </tbody> </table>	Evaluation Type	Evaluation Weight	Final exam	50%	Tests	50%						
Evaluation Type	Evaluation Weight												
Final exam	50%												
Tests	50%												
Date:	December 8, 2023												
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.												