

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: AMRT 303		Numb	Number of Credits: 6 Course credit policy (105)							
Course Full Title: Aircraft Rigging										
Course Short Title (if title exceeds 30 characters): Aircraft Rigging										
Faculty: Faculty of Applied and Technical Studies			Department (or program if no department):							
Calendar Description:		1								
Students will learn about basic aircraft stability, and procedures for rigging cable-controlled and push-pull rod-controlled systems. There is also a lesson on working with powered flight control systems.										
Prerequisites (or NONE):	Admission to the Aircraft Maintenan				ce Engineer M-Licence certificate program.					
Corequisites (if applicable, or NONE):	NONE									
Pre/corequisites (if applicable, or NONE):	NONE									
Equivalent Courses (cannot be taken for additional credit) Former course code/number: Cross-listed with: Equivalent course(s): Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.			Y ake	Transfer Credit Transfer credit already exists: □ Yes ⊠ No Transfer credit requested (OReg to submit to BCCAT): □ Yes ⊠ No (if yes, fill in transfer credit form) Resubmit revised outline for articulation: □ Yes ⊠ No To find out how this course transfers, see bctransferguide.ca .						
Total Hours: 90				Special Topics						
Typical structure of instructional hours:				Will the course be offered with different topics?						
Lecture hours										
Seminars/tutorials/workshops		30		lf yes, di	If yes, different lettered courses may be taken for cre No Yes, repeat(s) Yes, no limit Note: The specific topic will be recorded when offered.					
Laboratory nours		60		🛛 No 🏾						
Experiential (practicum, internship, etc.)				Note: The						
Online learning activities		0	-							
Other contact hours:				Maximu	m enrolment (for informa	ation only):				
	Total	90		Expected frequency of course offerings (every semester, annually, every other year, etc.):						
Department / Program Head or Director: F	Polf Arnold				Date approved:	March 2017				
Faculty Council approval				Date approved:	March 2017					
Campus-Wide Consultation (CWC)				Date approved:	April 12, 2017					
Campus-wide Consultation (CWC)					April 13, 2017					
				Date approved:	March 2017					
Undergraduate Education Committee (UEC) approval				Date of meeting:	April 21, 2017					

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Learning Outcomes											
Upon successful completion of this cours	se, students will be able to:										
Explain aircraft stability and control											
Describe aircraft surface balancing procedures											
Perform cable installation, adjustment, and rigging procedures											
Perform push-pull rod installation, adjustment, and rigging procedures											
Describe adjustments for hydraulically powered flight control systems											
Prior Learning Assessment and Recognition (PLAR)											
Yes 🛛 No, PLAR cannot be awarded for this course because Transport Canada Approval restricts PLAR											
Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)											
Presentations, online lessons, practical lab, and workshop exercises.											
Grading system: Letter Grades: Credit/No Credit: Labs to be scheduled independent of lecture hours: Yes No 🛛											
NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.											
Typical Text(s) and Resource Material	IS (if more space is required,	download Supplemental To	exts and	Resource Materials for	rm)						
Author (surname, initials) Title (article	e, book, journal, etc.)	Cu	rrent ed	. Publisher	Year						
1. Jeppesen A&P Tech	nician – General Textbook 8	Workbook	\boxtimes	Jeppesen	2011						
2. Jeppesen A&P Tech	nician – Airframe Textbook &	& Workbook	\boxtimes	Jeppesen	2011						
3. AC43.13-1B/2B Federal Av	viation Administration		\boxtimes	US DOT	2008						
4. GAH Company General Ai	ircraft Hardware Company-H	landbook	\boxtimes	GAH Company	2016						
5. Jeppesen A&P Tech	nician – Powerplant Textboo	ok & Workbook	\boxtimes	Jeppesen	2011						
 Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.) Basic toolbox Coveralls Personal safety equipment (PPE) 											
Typical Evaluation Methods and Weig	hting										
Quizzes/tests: 50% Shop	o work: 50%			Total:	100%						
Details (if necessary):											
The tests and shop work cannot be averaged – both sections must achieve a 70% grade to meet the minimum Transport Canada requirements.											
Typical Course Content and Topics:											
COURSE COMPONENTS:											
A1 Review Aircraft Axis											
A2 Review Aircraft Stability											
A3 Describe flight controls											
B1 Describe cable construction B2 Perform cable maintenance and testing											
C1 Describe push-pull rod control systems											
C2 Perform push-pull rod system rigging											
D1 Describe powered flight control systems											
D2 Describe safety precautions to	or powered flight controls										
Attend lectures and complete online lessons											
 Perform worksheets and projects 	s as described										
Perform projects to an acceptable level (pass/fail)											
Complete theory exams with a minimum grade of 70%											
Practical assessments must indicate a "pass" to provide proof of competency:											
AMRT 303-P1 (Cable Control System Inspection)											
AMRT 303-P2 (Cable Control System Rigging)											
AMRT 303-P3 (Perform Cable Repair)											

• AMRT 303-P4 (Hydraulically Powered Controls-Worksheet)

THEORY EXAMINATION(S): Formative exams and quizzes throughout the course:

- AMRT 303-T1 (Stability and Control) •
- AMRT 303-T2 (Cable Controlled Systems) ٠
- AMRT 303-T3 (Push-Pull Rod Controlled Systems) •
- AMRT 303-T4 (Hydraulically Powered Control Systems) ٠