



# CURRICULUM MODIFICATION REQUEST FORM

## *COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"*

### Program Requiring Changes

Program Title: Aircraft Structural Repair, Aircraft Maintenance and Avionics, Aircraft Maintenance		
Program Number: ASR1, AVI1, AAM4, AVM4	Date Submitted: 5/28/2021	
Dean responsible for program: Steve Patterson	Associate Dean: Larry Weir	
Credential Provided: <input type="checkbox"/> Declaration of Academic Achievement <input type="checkbox"/> Local Certificate <input checked="" type="checkbox"/> Ontario College Certificate <input checked="" type="checkbox"/> Diploma <input checked="" type="checkbox"/> Advanced Diploma <input type="checkbox"/> Grad Certificate <input type="checkbox"/> Degree <input type="checkbox"/> Apprenticeship		
Program Intakes: <input checked="" type="checkbox"/> F <input type="checkbox"/> W <input type="checkbox"/> S   Other:	Catalogue Year(s) Impacted: 2021/22	
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: <a href="#">Click here to enter a date.</a>	
<i>I have read the reasons for the change and...</i>		<i>Signature and date</i>
Associate Dean of School:	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	See attached SDAR for signatures
Dean of Faculty (Lead program):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	See attached SDAR for signatures
Dean of Faculty (Affiliate program-impacted by change):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	See attached SDAR for signatures
Senior Vice President Academic (required for major changes and late DAs):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	 June 2, 2021
Director, Centre for Academic Excellence:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	 June 2, 2021
Office of the Registrar:	<input type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	
Notes:		

*Please answer each of the questions below, if applicable. Missing or incomplete information may delay review of the proposed changes.*

**1.0 Describe proposed change(s). Complete Appendix A (if necessary), Appendix B and amend SDAR (Refer to Appendix C).**

**2.0** Addition of an English language course to the program to ensure adequate and required English language support for graduates entering the aviation industry.

**Reason/Rationale for Changes**

2.1 The reason for the change is based on:

- A recent program review
- Program Advisory Committee feedback
- Student feedback
- KPI results
- Accreditation or other regulatory requirements
- Shared curriculum
- Trends in the field/industry
- Other (please describe): Increased need for students to have improved English language and communication skills when entering the aviation industry. Feedback also obtained by current Professors related to the need for increased English supports.

2.2 Does the change support the College's Strategic Framework (mission, vision, values)?

- Yes
- No (If no, please explain)

2.3 What strategic goal(s) does the proposed change support?

- Goal 1 – Enhance innovative practices for exceptional student learning
- Goal 2 – Manage enrolment growth
- Goal 3 – Optimize use of resources
- Goal 4 – Build sustainable sources of alternative revenue

**3.0 Students**

3.1 Will the change affect the cost of the program for students?

- Yes
- No

3.2 If yes, there will be an additional cost for:

- Materials (Include details):
- Equipment (Include details):
- Other (Please describe):

#### 4.0 Program Learning Outcomes

4.1 Will the proposed change meet the Program Vocational Learning Outcomes? (Complete Appendix B and mark the changes in the mapping [e.g. red font])

- Yes
- No

4.2 Are there any implications related to progression because of pre-requisite courses (and/or co-requisite courses)?

- No
- Yes (If yes, please explain)

#### 5.0 Relationships with Other Programs

5.1 Are any of the courses impacted by the change provided by another School (e.g., SLLS, LKSB) and/or delivered at another campus?

- No
- Yes

5.2 What Schools/Campuses will be impacted by the proposed change?

- Lawrence Kinlin School of Business
- School of Information Technology
- School of Contemporary Media
- School of Design
- School Digital and Performing Arts
- School of Tourism, Hospitality and Culinary Arts
- School of Community Studies
- School of Health Sciences
- School of Nursing
- School of Public Safety
- Donald J. Smith School of Building Technology
- Norton Wolf School of Aviation Technology
- School of Applied Sciences and Technology
- School of Transportation Technology and Apprenticeship
- School of Language and Liberal Studies
- English Language Institute
- London South Campus
- Simcoe/Norfolk Regional Campus

- St Thomas/Elgin Regional Campus
- Woodstock/Oxford Regional Campus
- Huron/Bruce Regional Sites

5.3 Will the change affect pathway agreements (e.g., bridging, articulations, laddering, advanced standing) with other Fanshawe program(s) and/or other institution(s)?

(Refer to the pathway agreements listed here: <http://transferagreements.fanshawec.ca/>)

- No
- Yes (If yes, indicate when you will notify the other Fanshawe program(s) and/or other institution(s) and the Pathways Coordinator in the Centre for Academic Excellence of the change)

5.4 If this program is a Co-Operative Education program, will the proposed change impact Co-op?

- No
- Yes (If yes, consult with the Co-op office prior to submission)

## 6.0 Resource Implications of Proposed Changes

6.1 Will the proposed change have staffing implications?

- No
- Yes (If yes, please explain)

6.2 Will the proposed change impact any of the Enabling areas?

- No
- Yes (If yes, please explain) ELI will deliver this course to students in affected programs AVI, AVM and ASR.

6.3 Will the proposed change affect space and/or technology requirements?

- No
- Yes (If yes, please explain)

## 7.0 General College Requirements

7.1 Are changes consistent with Colleges policies?

- Yes
- No (If no, please explain)

7.2 Will the program meet the General Education requirements (Policy A126) as listed below?

- No
- Yes

<b>Local Certificate, Ontario College Certificate and Graduate Certificate</b> - none required)	<b>Diploma</b> - 3 required (minimum of 1 must be an elective)	<b>Advanced Diploma</b> - 4 required (minimum of 2 must be electives)
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7.3 Will the program have 25% distinct curriculum to meet the Residency Requirement of 25% credit units? Consider all pathway agreements (e.g., bridging, internal articulations, laddering, advanced standing) with other Fanshawe programs and/or other institutions.

- No  
 Yes

**Note:** In accordance with POLICY NUMBER: A122 Graduation from Approved College Programs

...to be eligible for any College Credential a student must be enrolled and complete at least 25% of that program's credit units at Fanshawe College, unless stipulated differently by other approving bodies such as the Postsecondary Education Quality Assessment Board (PEQAB).

7.4 Indicate:

- i) Total program hours before proposed change: \_\_\_1010, 1700, 2500 hours for certificate, diploma and advanced diploma hours\_\_\_\_\_
- ii) Total program hours after proposed change: \_\_\_\_\_additional 45 hours total for each program
- iii) Level(s) in which the proposed change(s) occurs: \_\_\_1\_\_\_

7.4.1 Are the total program hours consistent with the requirements as listed below?

- Yes  
 No (If no, please explain) Higher hours in the advanced diploma AV12 as it combines Avionics and Maintenance (2, two year diplomas) and combines into one advanced diploma

<b>Local Certificate</b> - 300 hours	<b>Ontario College Certificate</b> - 600 hours
<b>Diploma</b> - 1200 to 1400 hours	<b>Advanced Diploma</b> - 1800 to 2100 hours
<b>Graduate Certificate</b> - 600 hours	<b>DOAA</b> – 120 to 200 hours

## Degree Audit Report

**Catalog:** 2021/2022

**Program:** AAM4

**Name:** Aviation Technician - Aircraft Maintenance (Co-op)

**Department:** AVI - Norton Wolf Scl of Aviation

**Academic Level:** PS

**CCD:** 8 - 4AcadSem/1200-1400hrs

**Credential:** Ontario College Diploma

**Grade Scheme:** LG2

**Major:** AAM2 - Aviat'n-Aircraft Mtnce(Co-op)

**Div:** AVI - School of Aviation Technology

**Co-Op Indicator:** Mandatory Co-op

### Academic Program Requirement

**Total Credits:** 100.00

**Residency Reqmt:** 25.00

**GPA Requirement:** 2.00

**Residency Reqmt GPA:** 2.00

**Minimum Grade:** D

### Academic Requirement: AAM4.21 Aviation Technician - Aircraft Maintenance

**Major:** AAM4

**Grade Scheme:** LG2

**Minimum GPA:** 2.00

**Minimum Grade:**

#### Subrequirement: Level 1

Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1064	Shop Safety & Aircraft Tools	60.00	3.00	
AVIA-1025	Aircraft Corrosion Control	60.00	3.00	
AVIA-1050	Fixed Wing Aerodynamics	90.00	4.50	
AVIA-1065	Aircraft Reciprocating Engines	120.00	6.00	
AVIA-1052	Aircraft Propellers	30.00	1.50	
AVIA-1030	Aircraft DC Electrical Systems	90.00	4.50	
COOP-1020	Co-operative Education Employment Prep	6.00	1.00	
<b>TO BE ADDED----&gt; EDUC-1105</b>	<b>Strategies for AME Communication</b>	<b>45.00</b>	<b>3.00</b>	

#### Subrequirement: Level 2

Gen Ed - Take a 3 credit General Education elective course Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1031	Aircraft Metallic Structure & Metallurgy	120.00	6.00	
AVIA-1066	Hydraulic Controls/Emergency Equipment	120.00	6.00	
AVIA-1033	Canadian Aviation Regulations	30.00	1.50	
AVIA-1035	Rotary Wing Aerodynamics	90.00	4.50	
AVIA-1036	Aircraft AC Electrical Systems	90.00	4.50	

#### Subrequirement: Level 3

Gen Ed - Take a 3 credit General Education elective course Take all of the following Mandatory Courses:

## Degree Audit Report

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1038	Aircraft Materials/Hardware	60.00	3.00	
AVIA-1039	Aircraft Non-Metallic Structure & Comp	120.00	6.00	
AVIA-1068	Aircraft Gas Turbine Engines	90.00	4.50	
AVIA-1041	Aircraft Water, Fuel & Ignition Systems	90.00	4.50	
AVIA-1042	Aircraft Airframe Electrical Systems	90.00	4.50	

**Subrequirement:** Level 4

Gen Ed - Take a 3 credit General Education elective course Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1067	AMO Management: Records & Inspections	90.00	4.50	
AVIA-1069	Maintenance Techniques	90.00	4.50	
AVIA-1045	Aircraft Turbine Engine Maintenance	90.00	4.50	
AVIA-1046	Aircraft Starting & Indications	90.00	4.50	
AVIA-1070	Avionics-Intro	90.00	4.50	

**Subrequirement:** Gen Ed - Electives

Take 9 General Education Credits - Normally taken in Levels 2, 3 and 4

**Subrequirement:** Program Residency

Students must complete a minimum of 25 credits in this program at Fanshawe College to meet the Program Residency requirement and Graduate from this program

*Larry Weir K. Kelly*

Approved By Chair/Manager:

*[Signature]*

Approved by Dean:

AVI, April 1st 2021 / ELI - April 14, 2021

Department and Date:

May 14, 2021 / April 26, 2021

Date:

General Education Approved By(as appropriate):

Date:

## Degree Audit Report

**Catalog:** 2021/2022

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**Program:** ASR1

**Name:** Aircraft Structural Repair Technician

**Department:** AVI - Norton Wolf Scl of Aviation

**Academic Level:** PS

**CCD:** 7 - 2AcadSem/600-700 hrs

**Credential:** Ontario College Certificate

**Grade Scheme:** LG2

**Major:** ASR1 - Aircraft Structural Repair Tcn

**Div:** AVI - School of Aviation Technology

**Co-Op Indicator:** N/A

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### Academic Program Requirement

**Total Credits:** 56.00

**Residency Reqmt:** 14.00

**GPA Requirement:** 2.00

**Residency Reqmt GPA:** 2.00

**Minimum Grade:** D

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### Academic Requirement: ASR1.21 Aircraft Structural Repair Technician

**Major:** ASR1

**Grade Scheme:** LG2

**Minimum GPA:** 2.00

**Minimum Grade:**

### Subrequirement: Level 1

Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1072	Shop Management & Safety	30.00	2.00	
AVIA-1073	Technical Drawings/Information	60.00	4.00	
AVIA-1074	Mechanics of Flight	45.00	3.00	
AVIA-1075	Aircraft Structures	60.00	4.00	
MTNC-1029	Repairs 1	225.00	10.50	
MATH-1215	Mathematics for Aircraft Maintenance	30.00	2.00	
AVIA-1076	General Hand Tools	30.00	2.00	
MATS-1031	Composites 1	30.00	2.00	
COOP-1020	Co-operative Education Employment Prep	6.00	1.00	
<b>TO BE ADDED----&gt;</b>	<b>EDUC-1105</b>	<b>45.00</b>	<b>3.00</b>	
	<b>Strategies for AME Communication</b>			

### Subrequirement: Level 2

Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1077	Aircraft Systems	45.00	3.00	
MTNC-1030	Repairs 2	195.00	9.00	
AVIA-1078	Plastics & Sealants	30.00	2.00	
AVIA-1079	Non-Destructive Testing	30.00	2.00	
MATS-1032	Metallurgy & Heat Treating Processes	30.00	2.00	
LAWS-1081	Canadian Aviation Regulations	30.00	2.00	
MATS-1033	Composites 2	135.00	5.50	

### Subrequirement: Program Residency

Students Must Complete a Minimum of 14 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program



**Degree Audit Report**

*Larry Weir K. Kelly*

Approved By Chair/Manager:

*[Signature]* *[Signature]*

Approved by Dean:

General Education Approved By(as appropriate):

AVI, April 1st 2021 / ELI - April 14, 2021

Department and Date:

May 14, 2021 /April 26, 2021

Date:

Date:

## Degree Audit Report

**Catalog:** 2021/2022

**Program:** AVI2

**Name:** Aviation Technology - Aircraft Maintenance & Avionics(Co-op)

**Department:** AVI - Norton Wolf Scl of Aviation

**Academic Level:** PS

**CCD:** 9 - 6AcadSem/1800-2100hrs

**Credential:** Ontario College Advanced Dipl

**Grade Scheme:** LG2

**Major:** AVI1 - Aviat'n Tech'y-Mtnce & Avionic

**Div:** AVI - School of Aviation Technology

**Co-Op Indicator:** Mandatory Co-op

### Academic Program Requirement

**Total Credits:** 144.00

**Residency Reqmt:** 36.00

**GPA Requirement:** 2.00

**Residency Reqmt GPA:** 2.00

**Minimum Grade:** D

### Academic Requirement: AVI2.21 Aviation Technology - Aircraft Maint. and Avionics

**Major:** AVI1

**Grade Scheme:** LG2

**Minimum GPA:** 2.00

**Minimum Grade:**

#### Subrequirement: Level 1

Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1064	Shop Safety & Aircraft Tools	60.00	3.00	
AVIA-1025	Aircraft Corrosion Control	60.00	3.00	
AVIA-1050	Fixed Wing Aerodynamics	90.00	4.50	
AVIA-1065	Aircraft Reciprocating Engines	120.00	6.00	
AVIA-1052	Aircraft Propellers	30.00	1.50	
AVIA-1030	Aircraft DC Electrical Systems	90.00	4.50	
COOP-1020	Co-operative Education Employment Prep	6.00	1.00	
<b>TO BE ADDED----&gt;</b>	<b>EDUC-1105 Strategies for AME Communication</b>	<b>45.00</b>	<b>3.00</b>	

#### Subrequirement: Level 2

Gen Ed - Take a 3 credit General Education elective course. Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1031	Aircraft Metallic Structure & Metallurgy	120.00	6.00	
AVIA-1066	Hydraulic Controls/Emergency Equipment	120.00	6.00	
AVIA-1033	Canadian Aviation Regulations	30.00	1.50	
AVIA-1035	Rotary Wing Aerodynamics	90.00	4.50	
AVIA-1036	Aircraft AC Electrical Systems	90.00	4.50	

#### Subrequirement: Level 3

Gen Ed - Take a 3 credit General Education elective course. Take all of the following Mandatory Courses:

## Degree Audit Report

		Total Hours	Total Credits	GE
AVIA-1038	Aircraft Materials/Hardware	60.00	3.00	
AVIA-1039	Aircraft Non-Metallic Structure & Comp	120.00	6.00	
AVIA-1068	Aircraft Gas Turbine Engines	90.00	4.50	
AVIA-1041	Aircraft Water, Fuel & Ignition Systems	90.00	4.50	
AVIA-1042	Aircraft Airframe Electrical Systems	90.00	4.50	

**Subrequirement:** Level 4

Gen Ed - Take a 3 credit General Education elective course. Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
AVIA-1067	AMO Management: Records & Inspections	90.00	4.50	
AVIA-1069	Maintenance Techniques	90.00	4.50	
AVIA-1045	Aircraft Turbine Engine Maintenance	90.00	4.50	
AVIA-1046	Aircraft Starting & Indications	90.00	4.50	
AVIA-1070	Avionics-Intro	90.00	4.50	

**Subrequirement:** Level 5

Gen Ed - Take a 3 credit General Education elective course. Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
AVIA-1058	Avionics Digital Fundamentals	120.00	6.00	
AVIA-1006	Avionics Radio Theory	120.00	5.50	
AVIA-1083	Aviation Electronics	90.00	4.50	
AVIA-1017	Aircraft Flight Instruments	90.00	4.00	
AVIA-1018	Aircraft Internal Communications	30.00	1.50	

**Subrequirement:** Level 6

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
AVIA-1062	Aircraft Wireless Communications Systems	60.00	3.00	
AVIA-1020	Aircraft Radio Navigation Systems	90.00	4.50	
AVIA-1063	Aircraft Automatic Flight Control System	60.00	3.00	
AVIA-1022	Avionics Installations & Standard Prac.	120.00	4.50	
AVIA-1023	Flight Line Maintenance Practices	120.00	4.50	

**Subrequirement:** Gen Ed - Electives

Take 12 General Education Credits - Usually taken in Levels 2, 3, 4 and 5

**Subrequirement:** Program Residency

Students Must Complete a Minimum of 36 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program

*Larry Weir* , *K. Kelly*

Approved By Chair/Manager:

*[Signature]*

Approved by Dean:

AVI, April 1st 2021 /ELI - April 14, 2021

Department and Date:

April 26, 2021 / May 14, 2021

Date:

General Education Approved By(as appropriate):

Date:

## Degree Audit Report

**Catalog:** 2021/2022

**Program:** AVM4

**Name:** Aviation Technician - Avionics Maintenance (Co-op)

**Department:** AVI - Norton Wolf Scl of Aviation

**Academic Level:** PS

**CCD:** 8 - 4AcadSem/1200-1400hrs

**Credential:** Ontario College Diploma

**Grade Scheme:** LG2

**Major:** AVM1 - Aviation Tech'n-Avionics Mtnce

**Div:** AVI - School of Aviation Technology

**Co-Op Indicator:** Mandatory Co-op

### Academic Program Requirement

**Total Credits:** 95.50

**Residency Reqmt:** 24.00

**GPA Requirement:** 2.00

**Residency Reqmt GPA:** 2.00

**Minimum Grade:** D

**Academic Requirement:** AVM4.21 Aviation Technician - Avionics Maintenance

**Major:** AVM4

**Grade Scheme:** LG2

**Minimum GPA:** 2.00

**Minimum Grade:**

**Subrequirement:** Level 1

Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1086	Avionics & WHMIS-Intro	60.00	3.00	
AVIA-1085	Avionics Electrical Fundamentals	240.00	12.00	
AVIA-1004	Avionics Electronic Fundamentals	150.00	7.50	
COOP-1020	Co-operative Education Employment Prep	6.00	1.00	
<b>TO BE ADDED----&gt;</b>	<b>EDUC-1105 Strategies for AME Communication</b>	<b>45.00</b>	<b>3.00</b>	

**Subrequirement:** Level 2

Gen Ed - Take a 3 credit General Education elective course. Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1087	Aviation Maintenance Practices	60.00	3.00	
AVIA-1008	Aircraft Aerodynamics	60.00	3.00	
AVIA-1009	Aircraft Structures	60.00	3.00	
AVIA-1061	Hydraulic/Pneumatic/Landing Gear Systems	30.00	1.50	
AVIA-1010	Aircraft Materials & Hardware	60.00	2.50	
AVIA-1088	Aircraft Propulsion	60.00	3.00	
AVIA-1013	Aircraft Engine Instruments	60.00	3.00	
AVIA-1014	Aircraft Fuels Systems	30.00	1.50	
AVIA-1060	Aircraft Environmental & Safety Systems	30.00	1.50	

**Subrequirement:** Level 3

Gen Ed - Take a 3 credit General Education elective course. Take all of the following Mandatory Courses:

## Degree Audit Report

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1011	Aircraft Electrical Power	90.00	4.50	
AVIA-1017	Aircraft Flight Instruments	90.00	4.00	
AVIA-1018	Aircraft Internal Communications	30.00	1.50	
AVIA-1058	Avionics Digital Fundamentals	120.00	6.00	
AVIA-1006	Avionics Radio Theory	120.00	5.50	

**Subrequirement:** Level 4

Gen Ed - Take a 3 credit General Education elective course. Take all of the following Mandatory Courses:

		<b>Total Hours</b>	<b>Total Credits</b>	<b>GE</b>
AVIA-1062	Aircraft Wireless Communications Systems	60.00	3.00	
AVIA-1020	Aircraft Radio Navigation Systems	90.00	4.50	
AVIA-1063	Aircraft Automatic Flight Control System	60.00	3.00	
AVIA-1022	Avionics Installations & Standard Prac.	120.00	4.50	
AVIA-1023	Flight Line Maintenance Practices	120.00	4.50	

**Subrequirement:** Gen Ed - Electives



Take 9 General Education Credits - Normally taken in Levels 2, 3 and 4

**Subrequirement:** Program Residency

Students Must Complete a Minimum of 24 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program

*Larry Weir*      *K. Kelly*

Approved By Chair/Manager:

Approved by Dean:

AVI, April 1st 2021 / ELI - April 14, 2021

Department and Date:

May 14, 2021 / April 26, 2021

Date:

General Education Approved By(as appropriate):

Date: