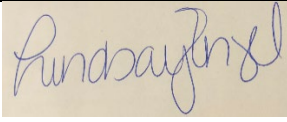
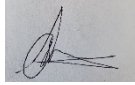




# CURRICULUM MODIFICATION REQUEST FORM

## COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

### Program Requiring Changes

Program Title: Electronics and Embedded Systems Development		
Program Number: ESD2	Date Submitted: 11/25/2020	
Dean responsible for program: Steve Patterson	Associate Dean: Lindsay Engel	
Credential Provided: <input type="checkbox"/> Declaration of Academic Achievement <input type="checkbox"/> Local Certificate <input type="checkbox"/> Ontario College Certificate <input type="checkbox"/> Diploma <input type="checkbox"/> Advanced Diploma <input checked="" type="checkbox"/> Grad Certificate <input type="checkbox"/> Degree <input type="checkbox"/> Apprenticeship		
Program Intakes: <input type="checkbox"/> F <input checked="" type="checkbox"/> W <input type="checkbox"/> S   Other:	Catalogue Year(s) Impacted: 21W Term ONLY	
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: N/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	 <b>November 25, 2020</b>
Dean of Faculty (Lead program):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	<b>November 25, 2020</b> 
Dean of Faculty (Affiliate program-impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Senior Vice President Academic (required for major changes and late DAs):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	 <b>December 1, 2020</b>
Director, Centre for Academic Excellence:	<input type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	 <b>November 26, 2020</b>
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**

ESD2 requires a Curriculum Modification in order to admit students into the Winter 2021 intake while the College is still operating with reduced face-to-face courses due to COVID-19 protocols. The program has mapped out the courses and proposes to move one theory course (ENTP-6005 [45 hrs]) to Level 1, which will be offered in 21W in a fully online delivery. The in-lab practical course (ELNC-6004 [60 hrs]) that it will be swapped with will be taught in Level 2 – in 21S. This change is proposed as a one-off offering due to the COVID-19 pandemic and is not likely to be a long-term proposed change. Future offerings of the program will revert back to ESD2 as it is currently formulated.

**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): COVID-19 Protocols

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)

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

- No
- Yes (If yes, please explain): There will be additional time required in labs in addition to the "usual" amount required for a "normal" Level 2 delivery. Lisa Dennis has run a simulation around the extra lab time that the PEM1 program would need in 21S, and there are no concerns there, so we expect no additional concerns with ESD2.

## 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: 600  
 ii) Total program hours after proposed change: 600  
 iii) Level(s) in which the proposed change(s) occurs: Levels 1 and 2

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

- Yes  
 No (If no, please explain)

<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

## Appendix C – Modified SDAR

### Degree Audit Report

Catalog: 2020/2021

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<b>Program:</b>	ESD2	<b>Name:</b>	Electronics and Embedded Systems Development
<b>Department:</b>	MAN - Applied Science and Technology		
<b>Academic Level:</b>	PS		
<b>CCD:</b>	7 - 2AcadSem/600-700 hrs		
<b>Credential:</b>	Ontario College Graduate Cert		
<b>Grade Scheme:</b>	LG2		
<b>Major:</b>	ESD2 - Electronics & Embedded Sys Dev	<b>Div:</b>	MAN - Manufacturing Sciences Division
<b>Co-Op Indicator:</b>	N/A		

### Academic Program Requirement

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<b>Total Credits:</b>	32.50	<b>Residency Reqmt:</b>	9.00
<b>GPA Requirement:</b>	2.00	<b>Residency Reqmt GPA:</b>	2.00
<b>Minimum Grade:</b>	D		

**Academic Requirement:** ESD2.20 Electronics and Embedded Systems Development

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<b>Major:</b>	ESD2
<b>Grade Scheme:</b>	LG2
<b>Minimum GPA:</b>	2.00
<b>Minimum Grade:</b>	

## Degree Audit Report

### Subrequirement: Level 1

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
<del>ELNC-6004</del>	<del>Electronic Components &amp; Processes</del>	<del>60.00</del>	<del>3.00</del>	<b>MOVE to Level 2</b>
ELNC-6005	Electronic Documentation & Graphics	60.00	3.00	
ELNC-6006	Embedded Systems 1	75.00	4.00	
MGMT-6098	Project Management	45.00	3.00	
COMM-6027	Industrial Communications	60.00	4.00	
<b>ENTP-6005</b>	<b>Business &amp; Sustainability in Technology</b>	<b>45.00</b>	<b>3.00</b>	

### Subrequirement: Level 2

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
ELNC-6007	Embedded Systems 2	75.00	4.00	
<del>ENTP-6005</del>	<del>Business &amp; Sustainability in Technology</del>	<del>45.00</del>	<del>3.00</del>	<b>MOVE to Level 1</b>
ELNC-6008	Practical Project	75.00	2.50	
ELNC-6010	Circuits & Interfacing	60.00	3.00	
COMM-6028	Project Communications	45.00	3.00	
<b>ELNC-6004</b>	<b>Electronic Components &amp; Processes</b>	<b>60.00</b>	<b>3.00</b>	

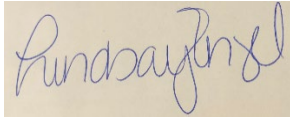
### Subrequirement: Program Residency

Students Must Complete a Minimum of 9 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program

**Degree Audit Report**

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Approved By Chair/Manager:



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Approved by Dean:



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General Education Approved By(as appropriate):

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Department and Date: Applied Science and  
Technology (AST) November 25, 2020

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Date: November 25, 2020

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Date: