

Fanshawe College

FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

Documentation (Approvals etc...)

Practical Elements of Mechanical Engineering

2019

PEM1 Curriculum Modification for 2020-21

Fanshawe College

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CURRICULUM MODIFICATION REQUEST FORM

COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

Program Requiring Changes

Program Title: Practical Elements of Mechanical Engineering		
Program Number: PEM1	Date Submitted: 11/28/2019	
Dean responsible for program: Steve Patterson	Chair: 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 checked="" type="checkbox"/> F <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/> S Other:	Catalogue Year(s) Impacted:	
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: 2016	
<i>I have read the reasons for the change and...</i>		<i>Signature and date</i>
Dean of Faculty (Lead program): <i>Stephen Patterson</i>	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	<i>[Signature] Dec. 3 / 19</i>
Dean of Faculty (Affiliate program-impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
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 type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Director, Centre for Academic Excellence:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	<i>[Signature] 12/6/2019</i>
Office of the Registrar:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	<i>Choggards 05 Dec 2019</i>
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) and amend SDAR (Refer to Appendix C).

[The proposed change will reallocate 1 hour of time from the current 4 hour lab component (2+2) to the current 2 hour theory/lecture component. This will result in a 3 hour lab and a 3 hour theory/lecture per week. This extra time in theory/lecture will be spent on establishing a foundation of basic electronics/electrical theory to support the student learning while building simple circuits during lab.

2.0 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):

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): Simple electrical components will be required for the students to complete labs.

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)

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

Local Certificate, Ontario College Certificate and Graduate Certificate - none required)	Diploma - 3 required (minimum of 1 must be an elective)	Advanced Diploma - 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: 735
ii) Total program hours after proposed change: 735
iii) Level(s) in which the proposed change(s) occurs: 2

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

- Yes
 No (If no, please explain)

Local Certificate - 300 hours	Ontario College Certificate - 600 hours
Diploma - 1200 to 1400 hours	Advanced Diploma - 1800 to 2100 hours
Graduate Certificate - 600 hours	DOAA - less than 200 hours

Degree Audit Report

Catalog: 2020/2021

Program: PEM1

Name: Practical Elements of Mechanical Engineering

Department: MAN - Applied Science and Technology

Academic Level: PS

CCD: 7 - 2AcadSem/600-700 hrs

Credential: Ontario College Graduate Cert

Grade Scheme: LG2

Major: PEM1 - Pract'l Elements of Mech'l Eng

Div: MAN - Manufacturing Sciences Division

Co-Op Indicator: N/A

Academic Program Requirement

Total Credits: 35.50

Residency Reqmt: 9.00

GPA Requirement: 2.00

Residency Reqmt GPA: 2.00

Minimum Grade: D

Academic Requirement: PEM1.20 Practical Elements of Mechanical Engineering

Major: PEM1

Grade Scheme: LG2

Minimum GPA: 2.00

Minimum Grade:

Subrequirement: Level 1

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
CADD-1054	Eng Drawing & BP Reading	30.00	2.00	
CADD-1055	CADD Fundamentals	45.00	1.50	
MACH-1124	Machining 1	45.00	2.00	
WELD-1040	Welding Technology 1	45.00	2.00	
MGMT-6098	Project Management	45.00	3.00	
ENGR-1026	Engineering Design 1	75.00	3.50	
MECH-1072	SPC & Metrology	60.00	3.00	
MATS-1021	Ferrous Metallurgy	45.00	2.00	

Total credit
19
} NO CHANGE

Subrequirement: Level 2

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
<i>Remove MECH-6005</i>	WELD-1047	60.00	3.00	
	MACH-1144	75.00	3.50	
<i>ADD MECH-6006</i>	MECH-1090	30.00	1.00	
	MECH-6005	90.00	4.00 4.5	
	METH-1002	45.00	3.00	
	MECH-3035	45.00	2.00	

Total credit
was: 16.5
now: 17.0

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

Approved By Chair/Manager:

Approved by Dean:

General Education Approved By(as appropriate):

Department and Date:

Date:

Date:

Nov 28/19

Dec-3/19

RM