

Fanshawe College

FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

Documentation (Approvals etc...)

Manufacturing Engineering Technology

2018

MEY4 Curriculum Modification for 2018-19

Fanshawe College

Follow this and additional works at: https://first.fanshawec.ca/cae_appliedscienceandtech_manufacturingengtechnology_documentation

CURRICULUM MODIFICATION REQUEST FORM

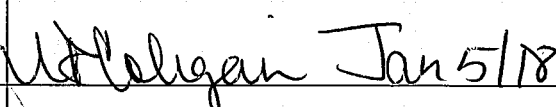
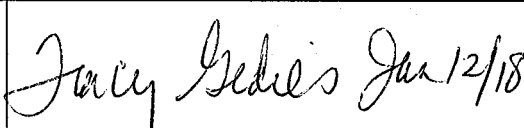
COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

RECEIVED

JAN 05 2018

Program Requiring Changes

Office of the Registrar

Program Title: Manufacturing Engineering Technology		
Program Number: MEY4	Date Submitted: Click here to enter a date.	
Dean responsible for program: Vertha Coligan	Chair: Dave Machacek	
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 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: 2018/19	
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: 6/1/2015	
<i>I have read the reasons for the change and...</i>		<i>Signature and date</i>
Dean of Faculty (Lead program):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	 Jan 5/18
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	 Jan 12/18
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) and amend SDAR (Refer to Appendix C).

MECH-3039 moves to level 5 and METH-3024 moves to level 6

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):
- 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 Tourism, Hospitality and Culinary Arts
- School of Community Studies
- School of Health Sciences
- School of Nursing
- School of Public Safety
- School of Contemporary Media
- School of Design
- School of Language and Liberal Studies
- 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
- Continuing Education
- 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 2-B-02) as listed below?

- No
- Yes

<p>Local Certificate, Ontario College Certificate and Graduate Certificate - none required)</p>	<p>Diploma - 3 required (minimum of 1 must be an elective)</p>	<p>Advanced Diploma - 4 required (minimum of 2 must be electives)</p>
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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: 2-B-17 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: 2055
- ii) Total program hours after proposed change: 2055
- iii) Level(s) in which the proposed change(s) occurs: level 1 and level 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	

APPENDIX A: PROPOSED CURRICULUM MODIFICATION

Course Code	Existing DA Courses	Total Hours	Total Credits		Course Code	Proposed DA Courses	Total Hours	Total Credits
Level 1								
TOTAL		345	19.5		TOTAL		345	19.5
Level 2								
TOTAL		345	19.5		TOTAL		345	19.5
Level 3								
TOTAL		345	18.5		TOTAL		345	18.5
Level 4								
TOTAL		345	16		TOTAL		345	16
Level 5								
MGMT-3072	Production Planning & Inventory Control	45	3		MGMT-3072	Production Planning & Inventory Control	45	3
MANF-5003	Automation Programming & Control-Adv.	45	2		MANF-5003	Automation Programming & Control-Adv.	45	2
MGMT-3075	Capstone 1 Manufacturing Technology	30	2		MGMT-3075	Capstone 1 Manufacturing Technology	30	2
COMP-3100	Computer Applications	30	1.5		COMP-3100	Computer Applications	30	1.5
METH-5019	Quality Assurance 3	60	4		METH-5019	Quality Assurance 3	60	4
METH-3024	Facilities Planning	60	4	Switch courses between level 5 & level 6	MECH-3039	Statics & Strengths of Mterials	60	4
TOTAL		345	16.5		TOTAL		345	16.5
Level 6								
GEN ED		45	3		GEN ED		45	3
MGMT-5077	Capstone 2 Manufacturing Technology	45	3		MGMT-5077	Capstone 2 Manufacturing Technology	45	3
MECH-3039	Statics & Strengths of Materials	60	4	Switch courses between level 5 & level 6	METH-3024	Facilities Planning	60	4
MGMT-3073	Operations Management	60	4		MGMT-3073	Operations Management	60	4
MECH-3018	Quality Systems	45	3		MECH-3018	Quality Systems	45	3
ENGR-5013	Applied Engineering Principles	75	4		ENGR-5013	Applied Engineering Principles	75	4
TOTAL		330	21		TOTAL		330	21

PROGRAM TOTAL 2055 111

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Degree Audit Report

Catalog: 2018/2019

Program: MEY4 **Name:** Manufacturing Engineering Technology
Department: MAN - Applied Science and Technology
Academic Level: PS
CCD: 9 - 6AcadSem/1800-2100hrs
Credential: Ontario College Advanced Dipl
Grade Scheme: LG2
Major: MEY4 - Manufacturing Eng Technology **Div:** MAN - Manufacturing Sciences Division
Co-Op Indicator: N/A

Academic Program Requirement

Total Credits: 118.00 **Residency Reqmt:** 30.00
GPA Requirement: 2.00 **Residency Reqmt GPA:** 2.00
Minimum Grade: D

Academic Requirement: MEY4.18 Manufacturing Engineering Technology

Major: MEY4
Grade Scheme: LG2
Minimum GPA: 2.00
Minimum Grade:

Subrequirement: Level 1

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
WRIT-1039	Reason & Writing 1-Technology	45.00	3.00	
LAWS-1038	Law, Ethics & Occupational H&S	45.00	3.00	**
ENGR-1024	Engineering Graphics	75.00	3.50	
MATH-1185	Math 1	90.00	6.00	
MACH-1154	Machining 1	45.00	2.00	
WELD-1054	Welding	45.00	2.00	

Subrequirement: Level 2

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
PSYC-1027	Human Relations	45.00	3.00	**
MACH-3056	Machining 2/Intro to CNC Processes	75.00	3.50	
MATH-1186	Engineering Fundamentals	60.00	4.00	
MATS-1026	Materials Engineering	45.00	2.50	
ENGR-1025	Engineering Design 1	45.00	2.50	
METH-1044	Quality Assurance 1	75.00	4.00	

Subrequirement: Level 3

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
MGMT-1007	Project Management	45.00	3.00	**
MECH-1104	Robotics & Automation Fundamentals	45.00	2.50	
ENGR-3015	Engineering Design 2	60.00	3.50	
METH-3023	Quality Assurance 2	60.00	3.00	
ELEC-1127	Electrical Devices & Instrumentation	60.00	3.00	
MACH-3057	CNC Applications & Intro to CAD/CAM	75.00	3.50	

Subrequirement: Level 4

Degree Audit Report

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

		Total Hours	Total Credits	GE
CADD-3032	CAD/CAM Apps & Automated Processes	75.00	3.50	
ENGR-5012	Engineering Design 3	45.00	2.50	
MECH-3038	Fluid Power Machine Control	60.00	3.00	
MGMT-3074	Capstone Project Technician	30.00	2.00	
COMM-3069	Technical Communication for Technicians	45.00	3.00	
WELD-5007	Manufacturing Processes & Welding-Adv	45.00	2.00	

Subrequirement: Level 5

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
MGMT-3072	Production Planning & Inventory Control	45.00	3.00	
MANF-5003	Automation Programming & Control-Adv	45.00	2.00	
MGMT-3075	Capstone 1 Manufacturing Technology	30.00	2.00	
COMP-3100	Computer Applications	30.00	1.50	
METH-5019	Quality Assurance 3	60.00	4.00	
METH-3024	Facilities-Planning	60.00	4.00	Remove
MANF-5004	Materials & Processes- Adv	75.00	4.00	
MECH-3039	Statics & Strengths of Materials	60.00	4.00	Add

Subrequirement: Level 6

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


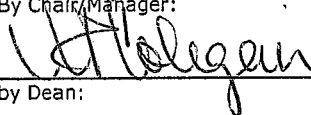
		Total Hours	Total Credits	GE
MGMT-5077	Capstone 2 Manufacturing Technology	45.00	3.00	
MECH-3039	Statics & Strengths of Materials	60.00	4.00	Remove
MGMT-3073	Operations Management	60.00	4.00	
MECH-3018	Quality Systems	45.00	3.00	
ENGR-5013	Applied Engineering Principles	75.00	4.00	
META-3024	Facilities Planning	60.00	4.00	Add

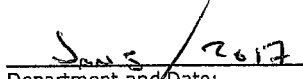
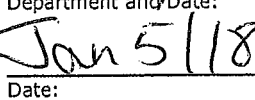
Subrequirement: Gen Ed - Electives

Take 6 General Education Credits - Normally taken in Levels 4 and 6

Subrequirement: Program Residency

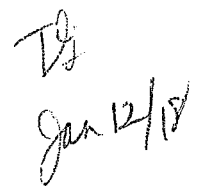
Students must complete a minimum of 30 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program


 Approved By Chair/Manager:

 Approved by Dean:


 Department and Date:

 Date:

General Education Approved By(as appropriate):

Date:


 TG
 Jan 12/18