

Fanshawe College

FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

Documentation (Approvals etc...)

Advanced Ergonomic Studies

2023

ADE1 Curriculum Modification for 2023-24




Fanshawe College

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CURRICULUM MODIFICATION REQUEST FORM

COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

Program Requiring Changes

Program Title: Advanced Ergonomics Studies – Research Methods & Statistics/ Safety		
Program Number: Ergo -6002 & SFTY 6006	Date Submitted: 12/1/2022	
Dean responsible for program:	Associate Dean: Tony Mallette	
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 type="checkbox"/> W <input type="checkbox"/> S Other:	Catalogue Year(s) Impacted: F2023	
Residency Requirement: <input type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: 11/21/2022	
<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	
Dean of Faculty (Lead program):	<input checked="" 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 modifications):	<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	 January 13, 2023
Office of the Registrar:	<input type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	
*Include an email exchange with an academic manager of any other area(s), including Fanshawe Toronto, that will be impacted by the change, as applicable		

Notes: Changes requested add 1 hour per week to Ergo 6002 and remove 1 hour / week from Safety 6006. Suggested from the program review. Better alignment with CCPE (Canadian Certified Professional Ergonomist) Accreditation and achieving Silac goals. Efficiency gains through online delivery .

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).

The Statistics course was moved to remote research projects in the pandemic. The research is survey based and matches a group of students with an industry partner to run the research throughout the Fall term. We are requesting a 1 hour per week increase in course hours. The students are meeting regularly with the Industry partners and should be given credit for this time. The planning and meetings with Industry partners aligns with our Silac goals and counts as critical hours for the students accreditation that currently they do not get to claim. The SFTY 6006 moved to online and gained some efficiencies. Reading modules and answering online quizzes can be done faster than in class quizzes and group reading projects. Removal of 1 hour / week does not impact accreditation.

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): Achieving Silac goals

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)?

Yes (If yes, please explain)

No

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?

Yes

No

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
- Fanshawe Toronto

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/>)

- 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)
- No

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

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

6.0 Resource Implications of Proposed Changes

6.1 Will the proposed change have staffing implications?

- Yes (If yes, please explain) This will add 1 hour/week to instructional hours of Ergo-6002. This is needed as the setting up of the research partners begins before the fall term and requires significant work to find and vet the projects. The instructor has a new role of approving the Ethics of all the projects (working with REB) .
- No

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

- Yes (If yes, please explain)
- No

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

- Yes (If yes, please explain)
- No

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?

Yes

No

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.

Yes

No

Note: In accordance with Policy 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: ____ 17 hours ____

ii) Total program hours after proposed change: ____ 17 hours ____

iii) Level(s) in which the proposed change(s) occurs: ____ Fall (level 1 ____

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 – 120 to 299 hours

COMMS - Vocational Learning Outcomes by Program, Level and Course (Including General Education Courses)

Updated Nov. 7 and 21, 2022

Level 1									
Course Number	Course Name	1	2	3	4	5	6	7	8
ERGO-6002 Karen	Research Methods & Statistics	IBC				IBC	IBC		
ERGO-6004 Luigi	Human-Computer Interactions	IBC				IB			IBC
ERGO-6006 Allison	Ergonomics Theory & Practice	IBC	IBC	IBC	IBC	IBC	IB	IBC	I
SFTY-6006 John	Safety in the Workplace	IB	IBC		IBC	IB	IBC		IB
Level 2									
Course Number	Course Name	1	2	3	4	5	6	7	8
ERGO-6001 Salima	Professional Development		I	IB	I		IBC		
ERGO-6003 Mike/Derek	Ergonomics & Legislation		B	IBC		BC	BC		
ERGO-6005 Allison	Research in Ergonomics	B		IB		BC			
ERGO-6007 Karen	Ergonomics Instrumentation	IBC	IBC	IBC		IBC		B	
ERGO-6009 Jim	Human Factors & Design	IBC	IBC	IB	BC	BC	IB	BC	BC
Level 3									
Course Number	Course Name	1	2	3	4	5	6	7	8
FLDP-6016 Allison	Field Placement	C	C	C	C?	C	C	C?	C?

Vocational Learning Outcomes

1	Assess worker-machine (added for HCI course)-workplace interactions and ergonomics concerns using current technologies and appropriate qualitative and quantitative techniques.
2	Identify the mechanisms and causes of injury in a variety of workplace settings, and recommend appropriate assistive tools and workstation workplace modifications to reduce the potential for workplace injury.
3	Synthesize information about the elements of an ergonomically sound workplace or product and proper work break patterns and exercises to guide their study design, evaluation, and/or proposed intervention.
4	Analyze the cost effectiveness of ergonomic control methods and their value in mitigating the financial impacts of risk injuries in the workplace.
5	Prepare succinct technical reports and design specifications that include conclusions and recommendations that are supported by the analysis of data and the relevant scientific literature.
6	Collaborate and communicate effectively across functional teams and levels of management to influence effective workplace outcomes ..., including with those involved in the return-to-work process of having an individual safely return to work following an injury.
7	Recommend workstation, equipment, and tool design changes based on the application of anthropometrical tables and calculations.
8	Examine the impact of cognitive biophysical and psychosocial factors, including human perception and information processing on an individual's performance in the workplace.

Legend

I	Introductory
B	Building
C	Culminating

COMMS - Essential Employability Skills by Program, Level and Course

Updated Nov. 21, 2022

Level 1												
Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
ERGO-6002 Karen	Research Methods & Statistics	X	X	X	X	X	X	X	X	X	X	X
ERGO-6004 Luigi	Human-Computer Interactions	X	X	X	X	X	X	X				
ERGO-6006 Allison	Ergonomics Theory & Practice	X	X	X	X	X	X	X			X	
SFTY-6006 John	Safety in the Workplace	X			X	X	X	X	X			
Level 2												
Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
ERGO-6001 Salima	Professional Development	X	X			X				X		X
ERGO-6003 Mike	Ergonomics & Legislation	X			X	X	X	X	X	X		X
ERGO-6005 Allison	Research in Ergonomics			X	X	X	X	X				
ERGO-6007 Karen	Ergonomics Instrumentation	X		X	X	X	X	X		X	X	
ERGO-6009 Jim/Luigi	Human Factors & Design	X	X	X	X	X	X	X		X		
Level 3												
Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
FLDP-6016 Allison	Field Placement	X	X	X	X	X	X	X	X	X	X	X

Essential Employability Skills

1	Communicate clearly, concisely and correctly in the written, spoken and visual form that fulfills the purpose and meets the needs of the audience.
2	Respond to written, spoken or visual messages in a manner that ensures effective communication.
3	Execute mathematical operations accurately.
4	Apply a systematic approach to solve problems.
5	Use a variety of thinking skills to anticipate and solve problems.
6	Locate, select, organize and document information using appropriate technology and information systems.
7	Analyze, evaluate and apply relevant information from a variety of sources.
8	Show respect for diverse opinions, values, belief systems and contributions of others.
9	Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.
10	Manage the use of time and other resources to complete projects.
11	Take responsibility for one's own actions, decisions and consequences.

Legend

I Introductory
B Building
C Culminating

Degree Audit Report

Catalog: 2022/2023

Program: ADE1

Name: Advanced Ergonomic Studies

Department: PSF - Public Safety

Academic Level: PS

CCD: 7 - 2AcadSem/600-700 hrs

Credential: Ontario College Graduate Cert

Grade Scheme: LG2

Major: ADE1 - Advanced Ergonomic Studies

Div: FHS - Fclty of Hlth, Comm St, Public Sfty

Co-Op Indicator: N/A

Academic Program Requirement

Total Credits: 38.00

Residency Reqmt: 10.00

GPA Requirement: 2.00

Residency Reqmt GPA: 2.00

Minimum Grade: D

Academic Requirement: ADE1.22 Advanced Ergonomic Studies

Major: ADE1

Grade Scheme: LG2

Minimum GPA: 2.00

Minimum Grade:

Subrequirement: Level 1

Take all of the following Mandatory Courses:

			Total Hours	Total Credits	GE
	ERGO-6006	Ergonomics Theory & Practice	90.00	4.50	
ERGO-6011	ERGO-6002	Research Methods & Statistics	75 60.00	4.00	5.00
	ERGO-6004	Human-Computer Interactions	30.00	2.00	
ERGO-6012	SFTY-6006	Safety in the Workplace	45 60.00	4.00	3.00

Subrequirement: Level 2

Take all of the following Mandatory Courses:

			Total Hours	Total Credits	GE
	ERGO-6005	Research in Ergonomics	45.00	3.00	
	ERGO-6007	Ergonomics Instrumentation	90.00	4.50	
	ERGO-6009	Human Factors & Design	66.00	4.00	
	ERGO-6001	Professional Development	30.00	2.00	
	ERGO-6003	Ergonomics & Legislation	30.00	2.00	

Subrequirement: Level 3

Take the following Mandatory Course:

			Total Hours	Total Credits	GE
	FLDP-6016	Field Placement	300.00	8.00	

Subrequirement: Program Residency

Students Must Complete a Minimum of 10 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program

Tony Malletta

Approved By Chair/Manager:

Tony Malletta

Approved by Dean:

General Education Approved By(as appropriate):

Degree Audit Report

Public Safety December 8, 2022

Department and Date:

Dec. 12, 2022

Date:

Date: