

Fanshawe College

FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

Documentation (Approvals etc...)

Geographic Information Systems (GIS)

2022

GIS1 Curriculum Modification for 2022-23





Fanshawe College

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CURRICULUM MODIFICATION REQUEST FORM

COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

Program Requiring Changes

Program Title: Geographic Information Systems		
Program Number: GIS1	Date Submitted: 7/7/2022	
Dean responsible for program: Mary Pierce (Acting)	Associate Dean: Dana Morningstar	
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: 2022-3	
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: 9/12/2018	
<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	 Aug 3, 2022
Dean of Faculty (Lead program):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	 August 3, 2022
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	 August 17, 2022
Director, Centre for Academic Excellence:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	 August 16, 2022
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

Removed Co-op course for PT stream

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 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: 606
- ii) Total program hours after proposed change: 600
- 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)

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 - Essential Employability Skills by Program, Level and Course**Program Name:** Geographic Information Systems (GIS)**Program Code:** GIS1 (GIS1-ARD-20223)**Academic Year:** 2022-2023**Date Generated:** 7/8/2022 7:44:35 AM

Level 1												
Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
COMP-6034	Programming Basics-OOP	X	X							X	X	X
COMP-6035	Spatial Data Acquisition	X	X	X	X	X	X	X			X	X
COOP-1020	Co-op Educ. Employment Prep	X	X				X	X	X		X	X
METH-6001	Fundamentals of GIS	X	X	X	X	X	X	X			X	X
METH-6002	Information Systems	X	X		X	X		X		X	X	X
Level 2												
Course Number	Course Name	1	2	3	4	5	6	7	8	9	10	11
COMP-6036	Advanced Programming-OOP			X	X	X	X	X			X	
METH-6003	Remote Sensing	X	X	X	X	X	X	X			X	X
METH-6004	Advanced Analysis in GIS	X	X	X	X	X	X	X		X	X	
METH-6005	Web GIS			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

COMMS - Vocational Learning Outcomes by Program, Level and Course**Program Name:** Geographic Information Systems (GIS)**Program Code:** GIS1 (GIS1-ARD-20223)**Academic Year:** 2022-2023**Date Generated:** 7/8/2022 7:49:58 AM**Only Display Core Courses:**

Level 1											
Course Number	Course Name	1	2	3	4	5	6	7	8	9	10
COMP-6034	Programming Basics-OOP	B	B	B	B	B	B	B	B	B	B
COMP-6035	Spatial Data Acquisition	I	B	B	I	B	I	I	I	B	I
COOP-1020	Co-op Educ. Employment Prep										
METH-6001	Fundamentals of GIS	I	I	IB	I	IB	I	IB	I	IB	
METH-6002	Information Systems	B	B	B	B	B	B	B	B	B	B
Level 2											
Course Number	Course Name	1	2	3	4	5	6	7	8	9	10
COMP-6036	Advanced Programming-OOP	C	C	C	B	B	B	B	I	I	I
METH-6003	Remote Sensing	B	BC	BC	B	B	B	B	B	BC	B
METH-6004	Advanced Analysis in GIS	BC	BC	BC	B	BC	BC	B		BC	
METH-6005	Web GIS	I	I	I	B	B	B	B	B	B	C

Vocational Learning Outcomes

1	Create solutions to spatial problems utilizing database systems;
2	Apply spatial analysis techniques within a variety of disciplines;
3	Solve problems using data that is acquired, interpreted, and integrated from various sources, and with different formats and coordinate systems;
4	Generate elegant and efficient computational algorithms;
5	Configure and customize GIS applications, operations, and databases to support decisionmaking and modelling within a range of disciplines;
6	Design web-based and embedded solutions to distribute GIS data and functionality to a wide range of end users;
7	Integrate GIS component design and development into project life cycle management, systems life cycles, and workflow processes;
8	Assist end users in integrating spatial processes into primarily non-spatial software applications;
9	Communicate complex technical geographic information to a wide variety of clients using texts, maps, and visual display, in order to increase understanding and enable wider use of GIS applications;
10	Practice to a professional standard, through ethical behaviour, continuous learning, and participation in professional organizations.

Legend

I	Introductory
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Degree Audit Report

Catalog: 2022/2023

Program: GIS1

Name: Geographic Information Systems (GIS)

Department: ARD - Design

Academic Level: PS

CCD: 7 - 2AcadSem/600-700 hrs

Credential: Ontario College Graduate Cert

Grade Scheme: LG2

Major: GIS1 - Geographic Information Systems

Div: ARD - School of Design

Co-Op Indicator: Mandatory Co-op

Academic Program Requirement

Total Credits: 41.00

Residency Reqmt: 11.00

GPA Requirement: 2.50

Residency Reqmt GPA: 2.50

Minimum Grade: D

Academic Requirement: GIS1.22 Geographic Information System

Major: GIS1

Grade Scheme: LG2

Minimum GPA: 2.50

Minimum Grade:

Subrequirement: Level 1

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
METH-6001	Fundamentals of GIS	75.00	5.00	
METH-6002	Information Systems	75.00	5.00	
COMP-6034	Programming Basics-OOP	75.00	5.00	
COMP-6035	Spatial Data Acquisition	75.00	5.00	
COOP-1020	Co-operative Education Employment-Prep	6.00	1.00	Remove

Subrequirement: Level 2

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
METH-6003	Remote Sensing	75.00	5.00	
METH-6004	Advanced Analysis in GIS	75.00	5.00	
COMP-6036	Advanced Programming-OOP	75.00	5.00	
METH-6005	Web GIS	75.00	5.00	

Subrequirement: Program Residency

Students Must Complete a Minimum of 11 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program

Degree Audit Report

Dana Morningstar

Approved By Chair/Manager:

Mary Pierce



Approved by Dean:

August 3, 2022

Department and Date:

August 3, 2022

Date:

General Education Approved By(as appropriate):

Date: