Approved By Associate Dean:

Jan 2, 2025

Signature

COURSE SECTION INFORMATION

Design Thinking for A.I. Solutions

Applied A.I. Solutions Development

Note: **All academic inquiries will be replied to within three business days.**

COURSE DESCRIPTION:

This course will focus on the hands-on application of Design Thinking in the development of A.I. solutions for a variety of business use cases. Students will gain an understanding of human-focused, prototype-driven, innovative design processes.

COURSE OUTCOMES:

Upon successful completion of this course the students will have reliably demonstrated the ability to:

1. Apply design thinking when architecting A.I. solutions
2. Integrate the Pillars of Design Thinking process
3. Adopt a user-centric approach when designing business solutions
4. Prototype solutions that reduce risks and accelerate results

LIST OF TEXTBOOKS AND OTHER TEACHING AIDS:

Required:
Enterprise Design Thinking – IBM

- **https://www.ibm.com/design/thinking/page/courses/Practitioner**

COURSE DELIVERY MODE:

Refer to the table below for the delivery mode.

Important Note on the Use of Generative AI:

Students must review the "Generative AI Usage Guidelines" document, available on D2L, or consult with the instructor for details on how generative AI tools may be used in this course.
Generally, use of AI is allowed and encouraged in most of the courses of this program, this include projects and assignments. However use of AI are not allowed in exams and quizzes unless specified otherwise by the instructor.
Students must consult their instructor when unsure.

Misuse of AI in assessments where it is not permitted or failure to adequately disclose its use will be treated as a violation of academic integrity. According to college policy, consequences may include failing the assignment or the course or more severe disciplinary actions. **Students must also download the AI Usage Declaration form from D2L, complete it, and submit it with their assignments where AI use is permitted.** Adherence to these guidelines is mandatory to maintain academic integrity.

Detailed Evaluation System

Assessment Tool:	Description:	Outcome(s) assessed:	EES assessed:	Date / Week:	% of Final Grade:
Participation Overall	In class participation in activities and exercises, group project participation	1, 2, 3, 4	1,2,4,5,6,7,8,9,10,11	1-3	10
In-Class Activities	Workshop/Assignment	1, 2, 3, 4	1,2,4,5,6,7,8,9,10,11	1-3	30
Assignments	Homework assignments	1, 2, 3, 4	1,4,5,6,7 10,11	1-3	30
Project/ Exam	Group projects/workshops	1,2, 3, 4	1,2,4,5,6,7,8,9, 10,11	1-3	30
				TOTAL	**100%**

GRADING SYSTEM the passing grade for this course is: D (50%)

A+	**90-100**	**4.0**	**B+**	**77-79**	**3.3**	**C+**	**67-69**	**2.3**	**D+**	**57-59**	**1.3**	**Below 50**	**F**	**0.0**
A	**86-89**	**4.0**	**B**	**73-76**	**3.0**	**C**	**63-66**	**2.0**	**D**	**50-56**	**1.0**			
A-	**80-85**	**3.7**	**B-**	**70-72**	**2.7**	**C-**	**60-62**	**1.7**						

Excerpt from the College Policy on Academic Dishonesty:
The *minimal* consequence for submitting a plagiarized, purchased, contracted, or in any manner inappropriately negotiated or falsified assignment, test, essay, project, or any evaluated material will be a grade of zero on that material.
To view George Brown College policies please go to www.georgebrown.ca/policies

Learning Schedule / Topical Outline (subject to change with notification)

TOPICAL OUTLINE:

Week	Topic Task	In-person/ Online	Outcome(s)	Content / Activities	Resources

1	1	Tuesday Online	1, 2, 3, 4	● IBM Design Thinking Practitioner 2hr Course ● Introduction to design thinking ● A1: Problem spaces and stakeholders	**Resource material available on D2L**
1	2	Thursday In-person	1, 2, 3, 4	● User research ● Interview practice and expert Interviews ● A2: Interview questions & database ideas	**Resource material available on D2L**
					Tasks: **Lab Exercises (Assignment/Workshops) 1, 2**
2	3	Tuesday Online	1, 2, 3, 4	● User needs and AI intents (Empathy map, As-Is journey, user needs, AI Intents) ● A3: Personas	**Resource material available on D2L**
2	4	Thursday In-person	1, 2, 3, 4	● Prioritization and To-Be scenarios ● A4: To-be scenario and data sources	**Resource material available on D2L**
					Tasks: **Lab Exercises (Assignment/Workshops) 3, 4**
3	5	Tuesday Online	1, 2, 3, 4	● Low-fidelity prototypes and testing ● A5: Low fidelity prototype and tasks	**Resource material available on D2L**
3	6	Thursday In-person	1, 2, 3, 4	● A6: Project presentations	**Resource material available on D2L**
					Tasks: **Lab Exercises (Assignment/Workshops) 5, 6 (Final Presentation)**
	Please note: this schedule may change as resources and circumstances require. For information on withdrawing from this course without academic penalty, please refer to the College Academic Calendar: **http://www.georgebrown.ca/Admin/Registr/PSCal.aspx**				