Approved by Chair:

_____ Aug 21, 2022

Signature

COURSE SECTION INFORMATION

Capstone Project I

Teacher's Name Anjana Shah

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Out of Class Assistance

Course Code COMP 3059

Course Section: 12175, 12176, 12177, 12178

Academic Year 2022-2023

Term Fall 2022

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

LIST OF TEXTBOOKS AND OTHER TEACHING AIDS:

DELIVERY METHODS / LEARNING ACTIVITIES:

Lectures, Liaise with Students and Industry Partners, Presentations, Seminars

LIST OF TEXTBOOKS AND OTHER TEACHING AIDS:

There is no required textbook. Class will be given handouts and supplemental material by professor.

Detailed Evaluation System

TOPICAL OUTLINE:

Assessment Tool:	Description:	Outcome(s) assessed:	EES assessed:	Date / Week:	% of Final Grade:
Sprint 1: Project Vision, Business Requirements, Personas, User Stories	Learners will develop a requirements package that will capture the business needs, and user centered requirements. These requirements will form the	1, 2, 3, 5, 6, 7	All	4	15%

	basis for system analysis and design specifications.				
Sprint 2: Project Plan, Team Charter, Product Backlog, Sprint Backlog	Learners will develop and present a plan which will include; summary, scope, duration, constraints, communication, timelines, and resource requirements.	2,3,4,5,7	All	5	15%
Sprint 3: System Requirements, Analysis and Design	Based on Analysis and Design skills developed throughout their program, learners will construct an analysis/design portfolio, which may include; conceptual, logical, and physical data models (to be constructed under advisement of Faculty, and will be based on the scope of each project).	1,2,5,7,8	All	9	15%
Sprint 4: Wireframes/ Prototype, Technical Requirements	Using a mock-up tool, teams will validate requirements and interpret solution requirements. Learners will research the technical requirements for the project.	7,8	All	12	20%
Presentation I (10%) Presentation II (15%)	Learners will summarize your project plan, and identity the value of your team's members in a 15 minutes presentation	3,5,7	All	6, 7 13,14, 15	25%
Commitment	Participation in meetings with instructor/team, guest speaker sessions (if any) or any other capstone related activity.	5,6	All	Ongoing	10%
				TOTAL:	**100%**

Peer Evaluation will be done on an ongoing basis for every team-based deliverable.
Participation in project will be part of evaluation on an ongoing basis.

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

TOPICAL OUTLINE:

Week	Topic / Task	Outcome /s	Content / Activities	Resources
1	Course Introduction Software Development	1, 2	• Summary of Course • Expectations/Roles & Responsibilities • The need for a "whole-brained"	Reference material

	Process		- IT specialist - Software Development Life Cycle - Software Development Activities	

2	Project Analysis and Assessment	1, 2, 3, 4	- Summary of Project Research
			- Define the Project
			   o Determine the real need
			   o Define the end product/service
			   o Determine project priorities
			   o Develop a project mission statement
			- Summarize Business Requirements
			- Analyze Stakeholders
				Reference material

3	Overview of Project Management	3	- Expectations/Roles & Responsibilities - Project Preparation - Project Management Primer (Review of Best Practice, Deliverables, etc.)	Reference material
4	Project Planning	2,3,4	- Generate Activities - Develop Estimates and Timelines - Define Activities Dependencies, Schedule and Critical path - Establish project infrastructure - Develop Risk Management Plan - Prepare the Project plan **Sprint 1 - Project Vision, Business Requirements and other deliverables DUE**	Reference material
5	Project Executing and Controlling	3,4	- Managing Requirements - Track Change Requests/Revisions - Communications with Parties - Meetings - Deliverable and Milestones **Sprint 2 - Project Plan and other deliverables DUE**	
6	Software Engineering		- Requirements Analysis - Software Design **Presentation I** - Project Vision - Business Requirements	Reference material

			• Personas, User Stories • Project Plan, Team Charter • Product Backlog, Sprint Backlog	
7	Group Presentations	2,3,4,6,7	**Presentation I (continued)** • Project Vision • Business Requirements • Personas, User Stories • Project Plan, Team Charter • Product Backlog, Sprint Backlog	
8	INTERSESSION WEEK			
9	Creating Wireframes/ Prototypes		• Importance of wireframes • Wireframes for different development projects • Resources/tools **Sprint 3 - Requirements Analysis and Design Assignment DUE**	Web resources
10	Presentation Skills – Designing Effective Presentations	2,3,4,7,8	• Consider the factors that contribute to audience attentiveness and presentation success • Learn to apply effective strategies in the development of presentation materials	Reference material
11	Presentation Skills – Delivering Effective Presentations	2,3,4, 7	• Understand the formula for presentation perfection • Visual Image • Vocal Image • Elements for Speaking and Presenting with Confidence • Overcoming Anxiety	Reference material
12	ICT Competencies – Interpersonal Skills Assessment – Interaction Skills	4,5,6	• Concepts of human relations in the IT environment • Teamwork • Dealing with Difficult People and Conflict Resolution • Customer/Client Service **Sprint 4 - Wireframes/Prototype and Technical Requirements DUE**	
13	Group Presentations	2,3,4,6,7	**Presentation II** • Revisit Project Plan • Requirements Analysis and Design • Wireframes/Prototype	

			• Technical Requirements	
14	Group Presentations	2,3,4,6,7	**Presentation II (continued)** • Revisit Project Plan • Requirements Analysis and Design • Wireframes/Prototype • Technical Requirements	
15	Group Presentations Preparation for Capstone II	all	**Presentation II (continued)** • Revisit Project Plan • Requirements Analysis and Design • Wireframes/Prototype • Technical Requirements **Teams review and plan for Capstone Project II course.**	
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:** https://www.georgebrown.ca/current-students/important-dates				