# Mohawk College

## Learning Plan

**Semester:** **Fall, 2024**                    Subject Code: **COMP CO835**
Subject Title: Object-Oriented Systems
Professor: Dr. Stanley Ukah                    Office: **Q Wing**
E-mail: stanley.ukah@mohawkcollege.ca                    Ext. **4054**

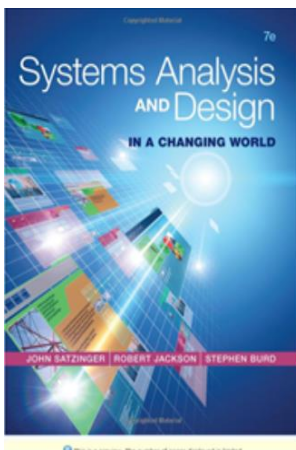**Office Hours:** Thursdays 1 PM to 5 PM, Fridays 4:30 PM to 6 PM, or by email Appointment

Please read this learning plan and the general course outline carefully. It is your guide to the course requirements and activities throughout the semester.

Please also visit the program page at the college website for key information on learning outcomes, course description and more information from the School of Engineering Technology & Aviation.

**Assessment Summary**
☒Tests (2): (30%)
☒Assignments (6): 30%
☒Quizzes: 10%
☒Final Assessment: 30%
☒Total: 100%

**Course Textbook:**



Authors: John Satzinger, Robert Jackson, & Stephen D. Burd, 2016.
Publisher: Course Technology; 7th edition
ISBN-10: 1305117204 | ISBN-13: 978-1-305-11720-4.

# TENTATIVE WEEKLY SCHEDULE
## Fall Semester, 2024

| Week# | Topic or Skill | Reading | Assessment | Weight |
|---|---|---|---|---|
| **Week 1**<br><br>Sep 2-6 | Introduction to the course;<br>From Beginning to End: An Overview of Systems Analysis and Design; SDLC & the project team.<br>Projects, Programs & Portfolios; Use cases. | Systems Analysis and Design in a Changing World, 7th Edition. CH1 | Quiz 1:<br>System analysis and Design | 1% |
| **Week 2**<br><br>Sep 9-13 | Requirements;<br>Levels of Requirements in SDLC;<br>Introduction to Stakeholders. | Systems Analysis and Design in a Changing World, 7th Edition. CH2 | Quiz 2:<br>Systems Requirements<br><br><br>Assignment 1 | 1%<br><br><br><br>5% |
| **Week 3**<br><br>Sep 16-20 | Systems Analysis & Design Methods;<br>The Business and Systems Analysts in I.T Projects;<br>Business Value of SDLC.<br>User Stories in Projects<br>Use Case Techniques | Systems Analysis and Design in a Changing World, 7th Edition. CH3 | Quiz 3:<br>User Stories and Use Cases | 1% |
| **Week 4**<br><br>Sep 23-27 | Domain Modeling;<br>Use Cases Modeling<br>Business use cases & System use cases;<br>Entity-Relationship Diagrams;<br>State Machine Diagrams | Systems Analysis and Design in a Changing World, 7th Edition. CH4 | Quiz 4:<br>Domain Modeling<br><br><br>Assignment 2 | 1%<br><br><br><br>5% |
| **Week 5**<br><br>Sept 30-Oct 4 | Use Case Structure<br>Use Case Description<br>Relationship Types in Use Case Models;<br>Activity Diagrams;<br>System Sequence Diagrams | Systems Analysis and Design in a Changing World, 7th Edition. CH5 | Quiz 5:<br>Use case Modeling | 1% |
| **Week 6**<br><br>Oct 7-11 | Foundation for System Design<br>System Design Activities<br>System Controls and Security<br>Analysis & Design | Systems Analysis and Design in a Changing World, 7th Edition. CH6 | Quiz 6:<br>Systems Design<br><br><br>Assignment 3 | 1%<br><br><br><br>5% |

| Oct 14-18 | **Fall Break** **No Class** | | | |
|---|---|---|---|---|
| **Week 7**<br><br>Oct 21-25 | Defining the systems architecture<br>Anatomy of Modern Information Systems | Systems Analysis and Design in a Changing World, 7th Edition. CH7 | Quiz 7:<br>System Architecture<br><br>Assignment 4<br><br>**Test 1** | 1%<br><br>5%<br><br>15% |
| **Week 8**<br><br>Oct 28 - Nov 1 | Systems Design<br>Risks in Systems Development;<br>Designing the User interface;<br>Planning contingencies. | Systems Analysis and Design in a Changing World, 7th Edition. CH8 | Quiz 8:<br>Designing the User Interface;<br><br><br>Midterm Discussion | 1% |
| **Week 9**<br><br>Nov 4-8 | Designing the Database;<br>Relational Databases;<br>Integrating Databases into systems development projects;<br>Roles of Data Administrator & Database Administrator in SDLC. | Systems Analysis and Design in a Changing World, 7th Edition. CH9 | Quiz 9:<br>Designing the Database<br><br><br><br><br><br>Assignment 5 | 1%<br><br><br><br><br><br>5% |
| **Week 10**<br><br>Nov 11-15 | Approaches to System Development, Methodologies, Models, Tools, and Techniques in Systems development;<br>Project Planning and Project Management;<br>Project Management Body of Knowledge (PMBOK)<br>**Case Study Introduction** | Systems Analysis and Design in a Changing World, 7th Edition. CH10&11 | Quiz 10:<br>Systems Development;<br><br><br><br><br>Quiz 11:<br>Project Planning and Project Management | 1%<br><br><br><br><br>1% |
| **Week 11**<br><br>Nov 18-22 | Object-Oriented Design<br>Use Case Realization with Communication Diagrams<br>Design Patterns in SDLC | Systems Analysis and Design in a Changing World, 7th Edition. CH12&13 | Quiz 12:<br>Object Oriented Design<br><br><br>Assignment 6 | 1%<br><br><br><br>5% |

| Week 12

Nov 25 – 29 | Implementation in IT projects;
Deploying the new system;
Approaches to Deployment;
Introduction to Software Testing;
Types of Tests in IT projects | Systems Analysis and Design in a Changing World, 7th Edition CH14 | Quiz 13: Deploying the New System


**Test 2** | 1%



15% |
| Week 13

Dec 2-6 | Revision: Q&A
In-class presentation
Case Study | All lecture notes | **Case Study Report Submission** | 30% |
| Week 14

Dec 9-13 | Final Exam Week | | No Final Exam | |

**Note:** Dates given should serve as a guide only and may be changed and updated throughout the semester as circumstances warrant. Please check this document regularly for updates or changes.