ALGONQUIN COLLEGE | Ottawa Pembroke Perth Online

WEEKLY SCHEDULE WINTER 2026

CST8514 Business and Information Technology
Section 300 – Delivery Method: Synchronous
<CPA> Level <X>

Professor's Name: Rejaul Chowdhury

Contact: chowdhr>@algonquincollege.com or 613-727-4723 ext.<XXXX>

Table of Contents
<The items below are hyperlinked through the document. If editing these items, the Microsoft Support website provides instructions on how hyperlink within a document.>

Learning Resources
Required Resources:
- David T. Bourgeois, Information Systems for Business and Beyond, The Saylor Foundation's Open Textbook
- Graham Curtis and David Cobham, Business Information Systems: Analysis, Design and Practice, 6th edition, Financial Times Press

Additional Reference and Supporting Resources:
- Ronald J. Ebert, Business Essentials, 14th edition, Pearson.
- Kenneth C. Laudon, E-Commerce 2023: Business, Technology, Society, 17th edition, Pearson.
- Patricia Wallace, Introduction to Information Systems: People, Technology and Processes, 4th edition, Pearson
- Kenneth E. Kendall and Julie E Kendall, Systems Analysis and Design, 11th edition, Pearson

Evaluation Breakdown

Please note assessment due dates should also be identified in Brightspace>

Assessment	Due Date and Time	Value	CLRs
Week 1 Quiz	Jan 16 11:59 pm	0.5%	1
Week 2 Quiz	Jan 23 11:59 pm	0.5%	1
Lab 1	Jan 23 11:59 pm	6%	1
Week 3 Quiz	Jan 30 11:59 pm	0.5%	2
Week 4 Quiz	Feb 06 11:59 pm	0.5%	2
Lab 2	Feb 06 11:59 pm	6%	2
Week 5 Quiz	Feb 13 11:59 pm	1%	2
Week 6 Quiz	Feb 20 11:59 pm	1%	3
Lab 3	Feb 20 11:59 pm	6%	3
Week 7 Quiz	Feb 27 11:59 pm	1%	3
Assignment 1	Feb 27 11:59 pm	15%	1,2,3,4
Week 9 Quiz	Mar 13 11:59 pm	1%	4
Lab 4	Mar 13 11:59 pm	6%	4
Midterm	TBA	10%	1,2,3,4
Week 11 Quiz	Mar 27 11:59 pm	1%	5
Week 12 Quiz	Apr 03 11:59 pm	1%	5
Lab 5	Apr 03 11:59 pm	6%	5
Week 13 Quiz	Apr 10 11:59 pm	1%	6
Week 14 Quiz	Apr 17 11:59 pm	1%	7
Assignment 2	Apr 17 11:59 pm	15%	5,6,7
Final Exam	TBA	20%	1,2,3,4,5,6,7

Learning Schedule

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%) Due Date
Week 1 January 12	*No class on Monday, May 5 for AC Day One for most programs* **Module 1-Part 1** • Define Business Concepts. • Define the nature of business, describe the external environments of business, and discuss how these environments affect the success or failure of organizations. • Describe the different types of global economic systems according to the means by which they control the factors of production. • Explain the importance of the economic environment to business and identify the factors used to evaluate the performance of an economic system.	Week 1 Quiz	
Week 2 January 19	**Module 1-Part 2** • Define Business Process. • Understand why it is important to integrate Information Technology with business. • Describe Information System Components. • Integration of Information Technology with	Week 2 Quiz	Lab 1: (6%) due Jan 23 at 11:59 pm

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%) Due Date	
	business can be categorized as e-commerce and e-business. • Define e-commerce, understand how e-commerce differs from e-business, identify the primary technological building blocks underlying e-commerce, and recognize major current themes in e-commerce.			
Week 3 January 26	*The College is closed Monday, May 19 for Victoria Day* **Module 2 -Part 1** • Define Information Technology (IT) and Information Systems (IS) • Describe Information Systems components for business. • Discuss the impacts IT is having on the business world. • Categorize business information systems in the context of systems analysis. • Define communication tools for business data. • Define networks for business information systems.	Week 3 Quiz		
Week 4 February 02	**Module 2-Part 2** • Explain the need for system analysis and design for business information system. • Compare the underlying assumptions and uses of a predictive and	Week 4 Quiz	Lab 2: (6%) due Feb 06 at 11:59 pm	

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%) Due Date	
	an adaptive system development life cycle (SDLC). • Explain what makes up a system development methodology—the SDLC as well as models, tools, and techniques. • Describe methodologies, models, tools, and techniques of system analysis and development to be used in business information system. • Describe the key features of Agile development. • Describe the business systems development life cycle. • Discuss the perspective of the mobile application to facilitate Business Information Systems. • Discuss the techniques of analyzing business data using Artificial Intelligence (AI).			
Week 5 February 09	**Module 3** • Assess different types of risks for information systems design. • Describe risk management processes. • Describe risk management steps. • Manage business risks through insurance.	Week 5 Quiz		

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%) Due Date	
	• Discuss special forms of insurance for business. • Mitigate risks with operational controls. • Mitigate risks with technical controls. • Assess the risk of Cybercrime as part of Information Systems Design. • Discuss Cyber security strategy for Businesses.			
Week 6 February 16	**Module 4-Part 1** • Define and categorize the term software. • List the ways of obtaining a software. • Discuss whether a business organization build or buy a software. • Define the term open-source and identify its primary characteristics. • Access software and databases from the Internet via a web browser through cloud computing which is referred to as "Software as a service (SaaS)".	Week 6 Quiz	Lab 3: (6%) due Feb 20 at 11:59 pm	
Week 7 February 23	**Module 4-Part 2** • Define the term Software Licensing. • Categorize Software Licensing. • Focus on the importance of software licensing for software developers and users.	Week 7 Quiz	Assignment 1: (15%) due Feb 27 at 11:59 pm	

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%) Due Date	
	• Describe the components of Software License Agreement. • Discuss deployment methods for Software Licensing. • Explain different sections for Software Licensing Support Agreement.			
Week 8 Mar 02	BREAK	BREAK	BREAK	
Week 9 Mar 09	*The College is closed Thursday, July 1 for Canada Day* **Module 5-Part 1** • Understand business ethics and social responsibility. • Discuss the model of Ethical Judgment Making. • Describe the stakeholder model of ethics. • Discuss the Government standards toward business ethics. • Discuss Industry regulatory compliance toward business ethics.	Week 9 Quiz	Lab 4: (6%) due Mar 13 at 11:59 pm	
Week 10 Mar 16	**Midterm Exam**			
Week 11 Mar 23	**Module 5-Part 2** • Discuss Government standards enforced as business-related laws. • Discuss Industry regulatory compliance using different laws and rights.	Week 11 Quiz		

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%) Due Date	
	• Explain ethical issues and concepts in Information Technology. • Discuss the fair ethical practices for Information Technology. • Discuss Industry regulatory compliances for Information Technology. • Discuss Government future standards for antitrust, monopoly, market competition, public safety and welfare			
Week 12 Mar 30	**Module 6-Part 1** • Discuss business systems management process. • Identify different types of managers for business systems. • Discuss the areas of management for business systems. • Discuss the importance of setting goals for business systems. • Discuss about formulating strategy for business systems.	Week 12 Quiz	Lab 5: (6%) due Apr 03 at 11:59 pm	
Week 13 Apr 06	**Module 6-Part 2** • Define change management. • Discuss the importance of the effective change management for business system.	Week 13 Quiz		

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%) Due Date
	• Discuss the signifi-cance of change man-agement to business stakeholders. • Discuss the principles, elements and strategies for an effective change management. • Discuss different change management models.		
Week 14 Apr 13	*The College is closed Monday, Aug 4 for Civic Holiday* **Module 7** • Describe key elements of evolving Business model. • Discuss different cate-gories of evolving Busi-ness model. • Discuss E-commerce and Industry value chains of evolving Busi-ness. • Describe principal strat-egy to remain up-to-date with evolving Busi-ness operations & tech-nologies. • Define and categorize Business transfor-mation. • Discuss the phases and principles of modern Business transfor-mation framework.	Week 14 Quiz	Assignment 2: (15%) due Apr 17 at 11:59 pm
Week 15 Apr 18-25	*Exam week begins Saturday, Apr 18 to Saturday, Apr 25* **Final Exam**		

Statement on Generative Artificial Intelligence (AI)

A series of statements are provided below, reflecting common scenarios that might be anticipated. Statements may be modified to address specific needs in a particular course.

It is strongly recommended that courses with multiple sections adopt the same statements to ensure consistency and clarity for learners.

Please select/modify ONE of the options below, and delete the others:

Scenario 1: Use Prohibited
The educational value of this course lies not only in the mastery of course content but also in the process of engaging first with the material. The work you do in this course is intended to strengthen original thought, critical thinking, and individual problem-solving skills. The use of generative AI to complete work compromises the learning process and the achievement of course learning requirements.

Under [Algonquin College Policy AA48 – Academic Integrity](#), "Academic work submitted by learners is evaluated on the assumption that the work presented by the learner is their own" and defines contract cheating as "[a] third-party completing work, with or without payment, for a learner, who then submits the work as their own, where such input is not permitted." Using content generated by AI and claiming it as your own work is considered contract cheating. Violations of these expectations will be brought forward as instances of academic misconduct under this policy.

Scenario 2a: Some Use Permitted
Students may use generative AI in this course in accordance with the guidelines outlined by the instructor for each assessment, provided that the use of generative AI is cited following instructions communicated in the Weekly Schedule.

Under [Algonquin College Policy AA48 – Academic Integrity](#), "Academic work submitted by learners is evaluated on the assumption that the work presented by the learner is their own" and defines contract cheating as "[a] third-party completing work, with or without payment, for a learner, who then submits the work as their own, where such input is not permitted." Use of generative AI outside assessment guidelines and/or without citation will be brought forward as instances of academic misconduct under this policy. When uncertain, students should reach out to their professor, who will clarify as necessary.

Scenario 2b: Some Use Permitted
Students may use generative AI in this course in accordance with the guidelines outlined by instructor for activities such as brainstorming, outlining, revising, or editing, provided that the use of generative AI is cited following instructions communicated in the Weekly Schedule.

Under [Algonquin College Policy AA48 – Academic Integrity](#), "Academic work submitted by learners is evaluated on the assumption that the work presented by the learner is their own" and defines contract cheating as "[a] third-party completing work, with or without payment, for a learner, who then submits the work as their own, where such input is not permitted." Use of generative AI outside assessment guidelines and/or without citation will be brought forward as instances of academic misconduct under this policy. When uncertain, students should reach out to their professor, who will clarify as necessary.

Scenario 3: Unrestricted Use
Students may use generative AI throughout this course in a way that enhances their learning, provided that the use of generative AI is cited following instructions communicated in the Weekly Schedule. When uncertain, students should reach out to their professor, who will clarify as necessary.

Other Important Information
Examples of information to include in this section:
- *Details regarding learning activities such as synchronous or asynchronous*
- *Classroom policies specific to the course section (e.g., attendance, classroom etiquette)*
- *Process/expectations regarding late assignments and extensions*
- *Relevant College services*