# **COMM 226**

# Business Technology Management Section EC Summer 2025

**Please Note:** This syllabus is subject to change and any changes will be posted in the Announcements section of your eConcordia portal.

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### **About this Course**

#### **General Information**

Course Number: COMM 226

Credits: 3

This is a course offered by the Department of Supply Chain and Business Technology Management

Instructor: Dr. Raul Valverde

Contact: Instructor email: raul.valverde@concordia.ca

eConcordia Course email: <a href="mailto:comm226@econcordia.com">comm226@econcordia.com</a>

#### **Teaching Assistants:**

**TBD** 

## **Course Description**

This course provides students with an understanding of the role of information technology in business organizations and society. Students learn how information technologies, digital tools, digitization of processes, etc. can be leveraged for creating business value, solving business problems, and driving competitive advantage as well as their impacts in the workplace, environment, and the world.

Prerequisite: None.

## **Expanded Course Description**

Information technology dominates the modern business environment. This creates a need for managers that not only understand technology but also know how to use it to create business value for the organization. Business Technology Management (BTM) is a set of processes and services that unite an enterprise's business technology (BT) and business management (BM) strategies to extract total BT solution value potential. The course introduces students to information systems and technology with a focus on its application to help businesses to achieve and maintain a competitive advantage. Modern information systems and approaches used to support organizations in their operations and interactions with other business are emphasized in this course, including enterprise resource planning (ERP). Database management and design is covered as a tool to improve decision making and to support operations. The use of internet technology as a business tool to expand markets, improve efficiency and facilitate operations is introduced to students with practical business cases. Students are also exposed to information technology risks such as computer crimes and learn how to mitigate them by using information security. This course also provides students with hands-on experience of an ERP system (SAP), a database system (Microsoft Access) and Business Analytics (PowerBI / Microsoft Excel).

## **Learning Objectives**

The main objective of this course is to provide an in-depth understanding of the role of information systems in supporting business activities and enhancing organizations' competitive advantage. Upon successful completion of this course, students will be able to:

- Explain and apply business technology management processes, tools, and techniques.
- Explain key components of IT/IS operations and implementation.
- Describe contemporary and future issues in business technology management.
- Explain the role of ethics in business and how to make ethical and socially responsible decisions considering people, environment, society, and legal obligations in business technology management.

# **Business Technology Management schedule**

(Subject to change)

Week of	Week #	Topic	Chapters (sections)	Assessments
	1	Introduction to IT, IS, and Digitalization. Organizational Strategy and Information Systems	1 The importance of MIS (PS&I) <sup>1</sup>	Knowledge Check Lesson 1

	Hardware Software Claud	Systems Careers (PS&I) <sup>1</sup> 3 Networks and Clouds (PS&I) <sup>1</sup> ,	
2	Hardware, Software, Cloud Computing, and Networks	Extension 2 Hardware and Software (PS&I) <sup>1</sup>	Knowledge Check Lesson 2
3	Business Process Management – Part 1	2 Business processes, Information Systems, Information	Quiz 1: Covering topics in  Week 1 and Week 2  From Thursday May 29 <sup>th</sup> 00:00 EST  to Friday May 30 <sup>th</sup> 23:59 EST
		(PS&I) <sup>1</sup> 7 Using IS to improve	Group Self-Selection for Assignments 2 and 3 opens.
4	Business Process Management – Part 2	processes (PS&I) <sup>1</sup> Extension 3.1 What are the activities of business process management (PS&I) <sup>1</sup>	Assignment 1 Assigned  Knowledge Check Lesson 5
5	Supporting Processes with Enterprise Systems and SAP	8 Supporting Processes with ERP systems (PS&I) <sup>1</sup>	Interactive Business Case 1 Due on Sunday, June 15 at 23:59 (EST)
		9 Supporting Procurement Processes	Knowledge Check Lesson 6

	<u> </u>	th CAD	
		with SAP	
		(PS&I) <sup>1</sup>	
		SAP Tutorials	
		(PS&I) 1	
		4 Databases	
		(PS&I) <sup>1</sup>	
	Batalana Marana and G Bir		Assignment 1 Due on Friday,
6	Database Management & Big	12 Decision	June 20 23:59 (EST)
0	Data	Support	
		(Sections 12.2	Knowledge Check Lesson 7
		& 12.9)	
		(IS&B) <sup>2</sup>	
		5 AI and	
		Robotics,-	
		(Sections 5.1	
	Business Analytics & Artificial		Assignment 2 Assigned
7	Intelligence	to 5.6) (PS&I)	
	Intelligence		
		12 Analytics	<b>Reading Week</b>
		_	
		and IS (PS&I) <sup>1</sup>	
		Provided	
		Online	
		Resources	
		(Microsoft	
		Office	
_	Pivot Tables & Digital	Materials)	
8	Dashboards		Knowledge Check Lesson 9
		Appendix 12	3
		Power BI	
		Analytics	
		Tutorial	
		(PS&I) <sup>1</sup>	

10	Information Systems Development  Ethics, Privacy, and	10 E-Business (IS&B) <sup>2</sup> Extension 3.2 & 3.3 Process Management and Information Systems Development (PS&I) <sup>1</sup> 6 Information Systems Security (PS&I) <sup>1</sup> 9 Impacts of	Quiz 2: Covering topics in Week 9 and Week 10 From Thursday July 17th 00:00 EST to Friday July 18th at 23:59 EST  Knowledge Check Lesson 10  Assignment 3 Due on Friday, July 25 at 23:59 (EST)
		6 Information Systems Security	•

		Ethics Guides throughout the Textbook (PS&I) <sup>1</sup>	
12	Future of IS: Digitalization and Social Impacts	9 Impacts of Information Systems (Sections 9.6 and 9.7) (IS&B) <sup>2</sup> 13 Emerging Technology (IS&B) <sup>2</sup> 3 (Section 3.2.6) Internet of Things) (PS&I) <sup>1</sup> 5 (Sections 5.7, 5.8, and 5.9) Robotics (PS&I) <sup>1</sup>	Interactive Business Case 2 Due on Monday July 28 at 23:59 (EST) Knowledge Check Lesson 12

 $<sup>^{\</sup>rm 1}$  Jr., Earl H. Mckinney, and David M. Kroenke Processes, Systems, and Information. Pearson Education (US), 2021. 4th edition

<sup>&</sup>lt;sup>2</sup> Roch, S., Fowler, J., Smith, B., Bourgeois, D. (2021). Information systems for business and beyond.

#### **Course Materials**

#### Required Material

Jr., Earl H. Mckinney, and David M. Kroenke Processes, Systems, and Information. Pearson Education (US), 2021. 4th edition:

https://pearsonhighered.onthehub.com/WebStore/OfferingDetails.aspx?o=43e37b76-23e8-ed11-8155-000d3af41938

Roch, S., Fowler, J., Smith, B., Bourgeois, D. (2021). Information systems for business and beyond: <a href="https://ecampusontario.pressbooks.pub/informationsystemscdn/">https://ecampusontario.pressbooks.pub/informationsystemscdn/</a>

#### Business Technology Labs from uCertify

#### Software for assignments

You will need various specific software applications for your assignments in this course, such as SAP GUI, Microsoft Access, Microsoft Excel, Power BI, and Microsoft Visio. All required software applications are accessible through uCertify (virtual machine) – except SAP GUI. When each assignment is announced, specific instructions will be provided on how to work with the uCertify hands-on labs and sandbox. SAP GUI instructions will also be provided as part of the assignment.

#### Minimum Computer Requirements

The minimum requirement for students is a computer with a current web browser, email, and with an Operating system installed with the options below:

- Microsoft Windows 10 or 11 is recommended.
- Apple OS

# **Teaching Method**

Practical examples and practice problems are presented in business and economics settings. These examples are drawn from various areas, such as accounting, management, finance, marketing, production, economics, and management information systems. The teaching methods include:

- <u>Lectures</u> Important material from the textbook and other sources will be covered. These lecture resources may include presentations, slides, websites, and videos.
- Assignments and activities: Students will be required to complete assignments and activities
  designed to complement and enhance the learning of the course material and provide some
  practical experience in management information systems.
- Quizzes: The two online assessments will take place on eConcordia.com and will be answered
  individually. These assessments will cover materials in the textbook and discussions that take
  place in class.

• <u>Final Exam:</u> The final exam will take place on the university premises (in-person). The final exam will cover the material in the book. The date, time, and rooms for the final exam will be determined by the examination office.

## **Preparation and Problem Assignments**

- Understanding of the course material is generally achieved through individual (or group) study, homework assignments, and examples in the course.
- Lectures are used to develop an understanding of the more complex issues. It is your responsibility to study the remaining parts of each chapter.
- Lessons are used to illustrate the application of the material in typical contexts. To maximize
  your benefit from this course, you should thoroughly read the chapter material <u>before each</u>
  <u>lecture</u> to solve the problems and cases that appear in each chapter and be prepared to answer
  questions in the knowledge checks.
- Due to the large class size, not all your questions can be answered immediately. Please post any questions about the course to the discussion forum on the course website on Moodle. Other students, the teaching assistant, or the professor will answer your questions.
- All course materials will be posted on the course website. It is your responsibility to check them before each class.

#### **Course Evaluation**

The final grade for the course will be based on the following components:

#### **Evaluation**

Total	100%
Final Examination	45%
Assignments (3)	35%
Knowledge Check Quizzes	5%
Interactive Business Cases	5%
Quizzes (2)	10%

#### Quizzes

There will be two online quizzes (each 5%). Please check the course schedule table for the date/time and coverage of each assessment. These are multiple-choice questions based on the assigned textbooks. More information will be provided on the course website.

#### Interactive Business Cases

There will be two Interactive Business Cases. Completion of them and the associated reflection document is required to get points toward the engagement activities, which counts for 5% of your final grade.

#### Knowledge Check Quizzes

There are 10 Knowledge Check Quizzes. (Lessons 1,2,3-4,5,6,7,9,10,12). These quizzes must be completed to get the associated 5% towards the final grade.

#### **Assignments**

There is one individual assignment (Assignment 1: SAP - 10%) and two group assignments (Assignment 2: Process Mapping & ERD - 12.5% & Assignment 3: Business Intelligence - 12.5%) during the semester; please refer to the schedule for the due dates.

#### Final examination

The final examination is worth 45% of the total mark for this course. However, to pass the course, you must score at least 50% in the final examination. The final examination is **comprehensive**; it will cover all of the chapters and sections of the textbook listed above. The final examination will have both multiple-choice questions and essay questions.

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#### **Important Dates:**

May 20: Last day for withdrawal with tuition refund (DNE)

June 22: Last day for academic withdrawal (DISC)

Late submission policy (applies to online assessments, assignments, and class participation activities): Unless otherwise stated in the submission description, late submissions will be subject to a **50**% penalty for the first day. An additional **10**% will be deducted for each additional day. So, submissions may result in a grade of zero if there are significant delays.

## **Numerical score and Letter Grades**

At the end of this course, the instructor will produce an overall score for the student's performance on the various components of this course, and then convert that score to a letter grade. The following list provides the numerical equivalent for the letter grades that will be reported at the end of the term:

#### Letter and Number Grades

Letter		Score	
A+	90	-	100
A	85	-	89
A-	80	-	84
B+	77	-	79
В	73	-	76
B-	70	-	72
C+	67	-	69
С	63	-	66
C-	60	-	62
D+	57	-	59
D	53	-	56
D-	50	-	52
FNS	0	-	49

<sup>\*</sup> D- is the minimum requirement to pass the course.

Please refer to section 16 of the Undergraduate Calendar for more information about the grading system, examinations, and performance requirements, etc.

(https://www.concordia.ca/academics/undergraduate/calendar/current/section-16-academic-information-definitions-and-regulations.html)

## **Assessment of Learning Objectives**

Learning Outcomes	Final exam	Asgn. 1	Asgn. 2	Asgn. 3	Online	Class activity
Learning Outcomes	Tillal exam	A36111 I	A36111 2	A3giii 3	Assessment	
Explain and apply	Theory-based	Use of an	Business	Use of a	Multiple-	Knowledge Check
business	multiple-	ERP/SAP	process	business	choice	
technology	choice and/or	in	modelling	analytics	questions	
management	short-essay	Business	and	tool		
processes, tools,	exam	Processes	notation			
and techniques	questions		Use of an			
	and		ERP and			
	application-		Database			
			Design for a			

	based exam		business		
	questions		case		
Explain key	Theory-based	Use of an		Multiple-	Knowledge Check
components of	multiple-	ERP/SAP		choice	
IT/IS operations	choice and/or	in		questions	
and	short-essay	Business			
implementation.	exam	Processes			
	questions				
	and				
	application-				
	based exam				
	questions				
Describe	Theory-based			Multiple-	Knowledge Check
contemporary and	multiple-			choice	
future issues in	choice and/or			questions	
business	short-essay				
technology	exam				
management	questions				
	and				
	application-				
	based exam				
	questions				
Explain the role of	Theory-based			Multiple-	Knowledge Check
ethics in business	multiple-			choice	
and how to make	choice and/or			questions	
ethical and socially	short-essay				
responsible	exam				
decisions	questions				
considering people,					
environment,	application-				
society, and legal	based exam				
obligations in	questions				
business					
technology					
management.					

# **Behaviour**

All individuals participating in courses are expected to be professional and constructive throughout the course, including in their communications. Concordia students are subject to the <a href="Code of Rights and Responsibilities">Code of Rights and Responsibilities</a>, which applies both when students are physically and virtually engaged in any University

activity, including classes, seminars, meetings, etc. Students engaged in University activities must respect this Code when engaging with any members of the Concordia community, including faculty, staff, and students, whether such interactions are verbal or in writing, face-to-face or online/virtual. Failing to comply with the Code may result in charges and sanctions, as outlined in the Code.

## **Intellectual Property**

Content belonging to instructors shared in online courses, including, but not limited to, online lectures, course notes, and video recordings of classes remain the intellectual property of the faculty member. It may not be distributed, published, or broadcast, in whole or in part, without the express permission of the faculty member. Students are also forbidden to use their own means of recording any elements of an online class or lecture without the express permission of the instructor. Any unauthorized sharing of course content may constitute a breach of the <u>Academic Code of Conduct</u> and/or the <u>Code of Rights and Responsibilities</u>. As specified in the <u>Policy on Intellectual Property</u>, the University does not claim any ownership of or interest in any student IP. All university members retain copyright over their work.

## **Extraordinary Circumstances**

In the event of extraordinary circumstances and pursuant to the <u>Academic Regulations</u>, the University may modify the delivery, content, structure, forum, location, and/or evaluation scheme. In the event of such extraordinary circumstances, students will be informed of the changes.

## **Ethical Behaviour**

Plagiarism: The most common offense under the Academic Code of Conduct is plagiarism, which the Code defines as "the presentation of the work of another person as one's own or without proper acknowledgment." This includes material copied word for word from books, journals, Internet sites, professor's course notes, etc. It refers to material that is paraphrased but closely resembles the original source. It also includes for example the work of a fellow student, an answer on a quiz, data for a lab report, a paper, or an assignment completed by another student. It might be a paper purchased from any source. Plagiarism does not refer to words alone —it can refer to copying images, graphs, tables, and ideas. "Presentation" is not limited to written work. It includes oral presentations, computer assignments, and artistic works. Finally, if you translate the work of another person into any other language and do not cite the source, this is also plagiarism.

In Simple Words: Do not copy, paraphrase, or translate anything from anywhere without saying where you obtained it. (Source: The Academic Integrity Website)

The instructor will strive to make the learning experience as accessible and inclusive as possible. If you have accessibility needs that require academic accommodations, please meet with an advisor from the

Access Centre for Students with Disabilities (ACSD) as soon as possible to set up an accommodation plan. The instructor welcomes meeting with all students to discuss their <u>accessibility needs</u>.

Sexual violence, including sexual harassment and sexual assault, is not tolerated at Concordia. Please see Concordia's policy on sexual violence for more information about awareness and prevention, support for survivors/ victims, responding to disclosures, and procedures for reports and complaints. You can also contact the Sexual Assault Resource Centre for information and support. More information and support are available at the Sexual Assault Resource Centre, by email at sarc@concordia.ca, or by phone 514 848-2424 x 3353

# **Course Agenda (Subject to Change)**

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	Week 1: May 12 - May 18					
	Introduction to IT, IS, and Digitalization. Organizational Strategy and Information Systems					
	Knowledge Check Lesson 1					
May 12	Classes Begin					
May 12	Discussion Board opens at 2 PM.					
	Week 2: May 19 - May 25					
	Hardware, Software, Cloud Computing, and Networks					
	Knowledge Check Lesson 2					
May 19	Journée nationale des patriotes (Quebec), Victoria Day (elsewhere in Canada) — University closed.					
May 20	Deadline to add two-term summer session courses					
May 20	Deadline for withdrawal with tuition refund (DNE) from two-term summer session courses					
	Week 3: May 26 - June 1					
May 26	Group self selection for assignments 2 and 3 opens					
May 29	Quiz 1 on eConcordia Available at 9AM open until May 30 at 11:59PM EST					

	Business Process Management – Part 1 and Part 2
	Knowledge Check Lessons 3-4
May 30	Last day to submit required documentation to register with the Access Centre for Students with Disabilities and request exam accommodations for the Summer 1 2025 final examination period
	Week 4: June 2 - June 8
	Supporting Processes with Enterprise Systems and SAP
	Knowledge Check Lesson 5
	Week 5: June 9 - June 15
June 09	Interactive Business Case 1 Due 11:59PM EST
	Database Management & Big Data
	Knowledge Check Lesson 6
	Week 6: June 16 - June 22
June 20	Assignment 1 Due 11:59 pm (EST)
	Business Analytics & Artificial Intelligence
	Knowledge Check Lesson 7
	Week 7: June 23 - June 29
June 23	Assignment 2 Assigned
June 24	Fête Nationale - University Closed
June 25	Reading week begins, two-term summer session
	Week 8: June 30 - July 6
	Pivot Tables & Digital Dashboards (No Knowledge Check)
June 30	Reading week for two-term summer session ends
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July 01	Canada Day - University Closed

	E-Commerce and Social Computing			
	Knowledge Check Lesson 9			
July 11	Assignment 2 Due 11:59 pm (EST)			
July 11	Assignment 3 Assigned			
	Week 10: July 14 - July 20			
	Information Systems Development			
	Knowledge Check Lesson 10			
July 17	Quiz 2 on eConcordia Available at 9AM open until July 18, 11:59PM EST			
	Week 11: July 21 - July 27			
	Ethics, Privacy, and Information Security			
	Knowledge Check Lesson 11			
July 22	Deadline for academic withdrawal (DISC) from two-term summer session courses			
July 25	Assignment 3 Due 11:59 pm (EST)			
	Week 12: July 28 - August 3			
	Future of IS: Digitalization and Social Impacts			
	Knowledge Check Lesson 12			
July 28	Interactive Business Case 2 Due 11:59 PM EST			
	Week 13: August 4 - August 12			
August 05	Last day for instructor-scheduled tests or examinations for two-term and second-term summer session courses			
August 12	Last day of classes, two-term summer session courses			
	Examination Period: August 13 - August 19			
	Final Exam date and time is posted on your Student Hub			