UNIVERSITY OF THE FRASER VALLEY

ORIGINAL COURSE IMPLEMENTATION DATE: October 1996
REVISED COURSE IMPLEMENTATION DATE: September 2026
COURSE TO BE REVIEWED (six years after UEC approval)**:** January 2032
Course outline form version: 26/01/2024

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: BUS 440	**Number of Credits:** 3 Course credit policy (105)
Course Full Title: Strategic Information Systems Management **Course Short Title:**	
Faculty: Faculty of Business and Computing	**Department (or program if no department):** School of Business

Calendar Description:

The ability to adapt and take advantage of rapidly changing information systems is one of the drivers of business success. In this course, students will learn how companies react to ever-changing technology and learn how to think strategically about applying technology and information.

Prerequisites (or NONE):	45 university-level credits including BUS 100 and one of BUS 160, CIS 110, or COMP 125.
Corequisites (if applicable, or NONE):	NONE
Pre/corequisites (if applicable, or NONE):	NONE

Antirequisite Courses *(Cannot be taken for additional credit.)*

Former course code/number:

Cross-listed with:

Equivalent course(s):

(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)

Typical Structure of Instructional Hours

Lecture/seminar	30
Supervised laboratory hours (computer lab)	15
Total hours	**45**

Scheduled Laboratory Hours

Labs to be scheduled independent of lecture hours: ☒ No ☐ Yes

Course Details

Special Topics course: **No**
(If yes, the course will be offered under different letter designations representing different topics.)

Directed Study course: **No**
(See policy 207 for more information.)

Grading System: **Letter grades**

Delivery Mode: **May be offered in multiple delivery modes**

Expected frequency: **Winter only**

Maximum enrolment (for information only)**: 25**

Prior Learning Assessment and Recognition (PLAR)

PLAR is available for this course.

Transfer Credit *(See bctransferguide.ca.)*

Transfer credit already exists: **Yes**

Submit outline for (re)articulation: **No**
(If yes, fill in transfer credit form.)

Department approval	**Date of meeting:**	September 2025
Faculty Council approval	**Date of meeting:**	November 7, 2025
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	January 30, 2026

Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Critique the impact of technology on business processes, individuals, workgroups, organizations, and society applying a Two Eyed Seeing perspective including Indigenous protocols for knowledge sharing and respecting community data governance.
2. Outline how information technology can be used to design competitive and/or effective organizations.
3. Evaluate an organization's operations, identify opportunities for information technology applications, and assist in developing systems that support corporate strategies.
4. Evaluate how data is captured, organized, and managed with attention to OCAP® principles (Ownership, Control, Access, and Possession) for Indigenous communities.
5. Compare different technologies, techniques, and infrastructure used to support business decision making.
6. Evaluate strategies for utilizing emerging technologies (examples include artificial intelligence and machine learning, quantum computing, and extended reality).
7. Compare different methodologies for information system development and implementation.
8. Interpret how various information systems are designed to support the decision-making process for business managers.
9. Explain the value and importance of ethics, sustainability, security, and privacy in the application of technology in today's world.
10. Analyze the use, application, and effectiveness of information systems in an organization.

Recommended Evaluation Methods and Weighting *(Evaluation should align to learning outcomes.)*

Final exam:	20%	Assignments:	50%	
Quizzes/tests:	30%			

Details:

Quizzes/Tests: 20% midterm, 10% weekly quizzes
Assignments: 25% assignment, 15% final project, 10% class participation/discussion

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Instructional Methods *(Guest lecturers, presentations, online instruction, field trips, etc.)*

Lectures, readings, online videos, and hands-on practice

Texts and Resource Materials *(Include online resources and Indigenous knowledge sources. Open Educational Resources (OER) should be included whenever possible. If more space is required, use the Supplemental Texts and Resource Materials form.)*

	Type	Author or description	Title and publication/access details	Year
1.	Textbook	Gallaugher, J	Information Systems A Manager's Guide to Harnessing Technology	Current
2.	Article	Bartlett, C & Marshall, M & Marshall, A	Two-Eyed Seeing and other lessons learned within a co-learning journey of bringing together indigenous and mainstream knowledges and ways of knowing	2012
3.				
4.				
5.				

Required Additional Supplies and Materials *(Software, hardware, tools, specialized clothing, etc.)*

Internet access.

Course Content and Topics

Module One: Strategy and technology
- Competitive advantage
- Efficiency and effectiveness
- IT infrastructure components
- IT concepts (e.g. Moore's law, network effect)

Module Two: Value of data in decision making
- Corporate data
- Customer created data/social media
- Machine data
- Data governance

Module Three: Enterprise systems
- Large business
- Small business
- Customer relationship and contact management
- Supply chain management
- Online selling and marketing

Module Four: Ethics and technology
- Ethics
- Sustainability
- Security
- Privacy

Module Five: Developing/implementing systems
- Technology planning
- In-house development vs off the shelf
- Design methodologies
- Project management

Module Six: Impacts of new technology
- Opportunities
- Challenges

Module Seven: Sharing economy

Mid-term exam (LO 1–4)
Assignments (L01-9)
Project (LO 10)
Final exam (LO 5–9)