



THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE

Course Number: ACS-2821-001
Course Name: Information Security in Business
Course Webpage: <https://nexus.uwinnipeg.ca/d2l/home/75739>

Instructor Information

Instructor: Amanpreet Kaur
E-mail: am.kaur@uwinnipeg.ca
Office Hours: Thursdays 3:00 pm - 4:00 pm 3C08B
Class meeting time: Mondays/Wednesdays 2:30 pm – 3:45 pm 3D04

Important Dates

1. First Class: Monday, January 5, 2026
2. Reading week (no classes): February 15 – 21, 2026
3. Midterm Test: Wednesday, February 25, 2026
4. Final Withdrawal Date without academic penalty*: Friday, March 13, 2026
5. Last Class: Wednesday, April 1, 2026
6. Final Exam: TBD
7. Final Exam Period: April 9 – 22, 2026
8. University closures: Louis Riel Day Monday, February 16, 2026
Good Friday Friday, April 3, 2026

*A minimum of 20% of the work on which the final grade is based will be evaluated and available to the student before the voluntary withdrawal date.

Course Objectives / Learning Outcomes

Information Security in Business will focus on the business aspect of information security, the why and what is information security and its importance to a business. Aside from security technologies that can be implemented to safeguard these assets, aspects of governance and management of information security will be considered as part of Information Security. The development of good corporate information technologies policies and procedures, management

and operational framework and controls, and information security culture and awareness will be discussed in this course.

Evaluation Criteria

1. Assignments: 18%

- There will be three assignments worth 6% each.
- Individual due dates will be posted on Nexus. Due at 11:59 pm on due date.
- Assignments will be accepted up to 1 day late with a 20% penalty
- Assignments are to be submitted through Nexus only. No submissions via email will be accepted. Written assignments should be in PDF (Portable Document Format) only.
- When submitting your assignment files, please name the file with your name, student ID and the assignment number, e.g. John Doe-12345 – Assignment 1. So, the file name should be John– 12345 – Assignment 1.pdf.
- Assignments that do not meet all the requirements, including those for the submissions, may not be accepted, or a portion of the marks will be deducted. Marks will be deducted for not following the file submission format, file naming format and instructions in the assignment.
- You will be provided with 2 weeks to finish your assignments. Do not ask for extensions. Please start early. Students are responsible for reviewing their assignments before submission to make sure that the correct files are submitted. All assignments are to be completed individually.
- Multiple submissions are permitted, but only the last submission will be accepted and marked. Students may submit a partially completed assignment and will receive credit for those attempted problems. Students are responsible for backing up and protecting their assignment work

2. Group Discussion and Reflection (7%)

- Students will be expected to read the textbook, lesson notes, study the Review Questions, and watch posted videos/links (if any) ahead of the class.
- During class, students will be randomly distributed into groups.
- The instructor will provide a relevant topic or guiding questions for students to discuss relating to the lesson of the day.
- Students will discuss the topic/question in their groups for about 10 minutes
- Students will be given a limited time during class to write down their reflections/thoughts based on the discussion in the group discussion forum on Nexus.
- Each group might be required to appoint a representative to summarize/debrief each group's findings.
- Students will receive marks based on their group participation and reflection activities.

3. Midterm Test: 25%

- Wednesday, February 25, 2026 – During regular class time

4. Final Exam: 50%

- Cumulative

Test / Exam Requirements

- Photo ID is required for the final exam.
- The use of computers, calculators, phones, or other electronic devices is not permitted during exams.
- Midterm and final exams are closed book.

Students should contact the instructor as soon as possible if extenuating circumstances require missing an assignment, test, or examination. A medical certificate from a practicing physician may be required before any adjustments are considered.

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., note-takers) are encouraged to contact Accessibility Services (AS) at 204-786-9771 or accessibilityservices@uwinnipeg.ca to discuss appropriate options. All information about a student's disability or medical condition remains confidential.

<https://www.uwinnipeg.ca/accessibility-services>

Students may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide an opportunity for students to make up work examinations without penalty. A list of religious holidays can be found in the 2025-26 Undergraduate Academic Calendar online at <http://uwinnipeg.ca/academics/calendar/docs/important-notes.pdf>

Final Letter Grade Assignment

Historically, numerical percentages have been converted to letter grades using the following scale. However, instructors can deviate from these values based on pedagogical nuances of a particular class, and final grades are subject to approval by the Department Review Committee.

A+	90 – 100%	B+	75 – 79%	C	60 – 64%
A	85 – 89 %	B	70 – 74%	D	50 – 59%
A-	80 – 84%	C+	65 – 69%	F	below 50%

NOTE: Final grades require departmental/program approval and may be subject to change.

Required Text Book / Reading List

- Information Security: Principles and Practices, Merkow & Breithaupt 2nd Edition, 2014 Pearson Education, Inc. ISBN-13: 9780789753250

- Additional reading materials, class notes and notices will be posted on the Nexus course website.

Prerequisite Information*

A minimum grade of C in ACS-1803(3) - Must be completed prior to taking this course.

*Make sure that you have the necessary prerequisites to take this course. If you have not successfully completed the above-listed course(s), it is in your interest to go to the student registration office and officially drop the course.

Regulations, Policies, and Academic Integrity

Students are encouraged to familiarize themselves with the Academic Regulations and Policies found in the University Academic Calendar at:

<https://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf>

Particular attention should be given to subsections 8 (Student Discipline), 9 (Senate Appeals) and 10 (Grade Appeals).

Avoiding Academic Misconduct: Academic dishonesty is a very serious offense and will be dealt with in accordance with the University's policies.

Detailed information can be found at the following:

- Academic Misconduct Policy and Procedures:
<https://www.uwinnipeg.ca/policies/docs/policies/academic-misconduct-policy.pdf> and
<https://www.uwinnipeg.ca/policies/docs/procedures/academic-misconduct-procedures.pdf>
- About Academic Integrity and Misconduct, Resources and FAQs:
<https://library.uwinnipeg.ca/use-the-library/help-with-research/academic-integrity.html>

Uploading essays and other assignments to essay vendor or trader sites (filesharing sites that are known providers of essays for use by others who submit them to instructors as their own work) involves “aiding and abetting” plagiarism. Students who do this can be charged with Academic Misconduct.

Academic Integrity and AI Text-generating Tools: The use of AI tools in this course is **prohibited**. This includes all forms of generative AI, like ChatGPT, Claude, Gemini, etc., as well as AI writing and paraphrasing tools, such as Grammarly, Quillbot, etc. If you are unsure whether the use of a specific technology is permitted, ask the instructor before using the tool for coursework. Suspected misuse of AI may result in a report to the Senate Academic Standards and Misconduct Committee.

Non-academic misconduct: Students are expected to conduct themselves in a respectful manner on campus and in the learning environment, irrespective of the platform being used. Behaviour, communication, or acts that are inconsistent with a number of UW policies could be considered “non-academic” misconduct. More detailed information can be found here:

- Respectful Working and Learning Environment Policy: <https://www.uwinnipeg.ca/respect/respect-policy.html>,
- Acceptable Use of Information Technology Policy: <https://www.uwinnipeg.ca/policies/docs/policies/acceptable-use-of-information-technology-policy.pdf>
- Non-Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/policies/docs/policies/student-non-academic-misconduct-policy.pdf> and <https://www.uwinnipeg.ca/policies/docs/procedures/student-non-academic-misconduct-procedures.pdf>

Copyright and Intellectual Property: Course materials are the property of the instructor who developed them. Examples of such materials are course outlines, assignment descriptions, lecture notes, test questions, and presentation slides—irrespective of format. Students who upload these materials to filesharing sites, or in any other way share these materials with others outside the class without prior permission of the instructor/presenter, are in violation of copyright law and University policy. Students must also seek prior permission of the instructor/presenter before, for example, photographing, recording, or taking screenshots of slides, presentations, lectures, and notes on the board. Students found to be in violation of an instructor’s intellectual property rights could face serious consequences pursuant to the Academic Misconduct or Non-Academic Misconduct Policy; such consequences could possibly involve legal sanction under the Copyright Policy:

<https://www.uwinnipeg.ca/policies/docs/policies/copyright-policy.pdf>

Privacy

Students have rights in relation to the collection of personal data by the University of Winnipeg.

- Student Privacy: <https://www.uwinnipeg.ca/privacy/admissions-privacy-notice.html>
- Zoom Privacy: <https://www.uwinnipeg.ca/privacy/zoom-privacy-notice.html>
- Exam and Proctoring: <https://www.uwinnipeg.ca/privacy/zoom-test-and-exam-proctoring.html>

Class Cancellation, Correspondence with Students, Email Communication Requirements and Withdrawing from Course

When it is necessary to cancel a class due to exceptional circumstances, the course instructor will make every effort to inform students via UWinnipeg email and Nexus.

Students are reminded that they have a responsibility to regularly check their UWinnipeg e-mail addresses to ensure timely receipt of correspondence from the University and/or the course instructor.

The email sent to the instructor must include your full name, your student #, and the COURSE # and SECTION # (like ACS-2821-001) in the subject line of your email. A respectful manner is also expected in email communications.

Please let the course instructor know if you plan on withdrawing from the course. Note that withdrawing before the VW date does not necessarily result in a fee refund.

Student Wellness

The University of Winnipeg affirms the importance of student mental health and our commitment to providing accessible, culturally appropriate, and effective services for students. Students who are seeking mental health supports are encouraged to reach out to the Wellness Centre at studentwellness@uwinnipeg.ca or 204-258-3809. For community-based mental health resources and supports, students are encouraged to dial 2-1-1. This program of United Way is available 24/7 in 150 languages. Other resources and contact information can be found at the following link: <https://www.uwinnipeg.ca/student-wellness/contact-us.html>.

Sexual Violence and Human Rights Advisor (SVHRA)

Students who have experienced Sexual Violence can access support from the SVHRA. The SVHRA receives disclosures and can support students with on and off-campus reporting. In collaboration with the Sexual Violence Response Team (SVRT), the SVHRA also provides fast-track referrals to Student Wellness, academic accommodations, security support, and other on and off campus supports. The SVHRA and SVRT operate within a confidential, survivor-centered, and trauma-informed framework. <https://www.uwinnipeg.ca/respect/sexual-violence/>

Disclosures may be made in-person, email, by text, by phone, or Zoom/Teams.

5Ri55, 5th Floor (Rice Centre)
204.230.6660 – *call or text (confidential line)*
svrt@uwinnipeg.ca

Topics to be covered (tentative)

Introduction to Information Security

- Why Information Security?
- Principles of Information Security
- Certification Programs
- Who are the attackers?

Information Security Management

- Governance and Risk Management

Business Continuity Planning and Disaster Recovery Planning
Law, Investigations, and Ethics

Information Security Technology

Physical Security Control

Operations Security

User Authentication and Access Control

Cryptography

Telecommunications, Network, and Internet Security

Note that all topics listed may not be covered and may be offered in a slightly different order.

A permitted or necessary change in mode of delivery may require adjustments to important aspects of course outlines, like class schedule and the number, nature, and weighting of assignments and/or exams.

*In order to ensure a safe and comfortable learning environment for everyone, we kindly ask that **all students refrain from wearing or using scented products** while attending class.*