



# THE UNIVERSITY OF WINNIPEG

## APPLIED COMPUTER SCIENCE

Course Number: ACS-1803-004  
Course Name: Introduction to Information Systems  
Course Webpage: <https://nexus.uwinnipeg.ca/d2l/home/75672>

### **Instructor Information**

**Instructor:** Amanpreet Kaur  
**E-mail:** [am.kaur@uwinnipeg.ca](mailto:am.kaur@uwinnipeg.ca)  
**Office Hours:** Tuesdays 3:00 pm - 4:00 pm 3C08B  
**Class meeting time:** Tuesdays/Thursdays 11:30 am - 12:45 pm 3D01

### **Important Dates**

- |   |                            |
|---|----------------------------|
| 1. First Class:                                     | Tuesday, January 6, 2026   |
| 2. Reading week (no classes):                       | February 15 – 21, 2026     |
| 3. Midterm Test:                                    | Tuesday, February 24, 2026 |
| 4. Final Withdrawal Date without academic penalty*: | Friday, March 13, 2026     |
| 5. Last Class:                                      | Thursday, April 2, 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**

The course provides students with a basic conceptual understanding of Information Systems and the different elements, including Hardware, Software, Telecommunications, Processes and Users. The course addresses the question: “How can computers help an organization”? Highlights of business application systems that support the functions of accounting, finance, marketing, human resource management and manufacturing will be provided.

Enterprise Resource Planning Systems, Customer Relationship Management Systems, Executive Information Systems, Decision Support Systems and Expert Systems are also covered. Further, topics of eBusiness and eCommerce are covered. The final section of the course introduces the student to the process of developing a customized computer-based information system, presenting the system development lifecycle, and outlining the work of a systems analyst.

## **Evaluation Criteria**

### **1. Assignments (15%)**

- 3 assignments, worth 5% each.
- Individual due dates will be posted on Nexus.
- Assignments will be accepted up to 1 day late with a 20% penalty.

#### **Assignment submissions:**

All work is to be submitted electronically via Nexus. No assignments will be accepted via email to the instructor or TA. Students are encouraged to submit before the due date and time to avoid any last-minute technical or Nexus issues, if they occur. Please do not send any emails with screenshots of last-minute problems. Further details and submission procedures will be posted on Nexus with each assignment's instructions.

Students are responsible for backing up and protecting their assignment work. Keep a backup copy of all class work in case there is an error in the recording of marks by the instructor.

### **2. Group Discussion and Reflection (10%)**

- 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 Tests (25%):**

- When: Tuesday, February 24, 2026
- During the regular class time
- Missed exams will receive a mark of zero unless a medical certificate is provided; no accommodation is made for missed exams.

### **4. Final Exam (50%)**

- Cumulative

## **Test / Exam Requirements**

- Student ID or 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 a lab, 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](mailto: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**

- Fundamentals of Information Systems (9th edition), by Stair and Reynolds; Course Technology, ISBN13: 978-1-337-09753-6
- Additional Readings and class notes will be made available on Nexus.

## **Prerequisite Information**

- There are no formal pre-requisites listed in the calendar. However, it is assumed that students have basic knowledge on computer usage including the internet, electronic files, and word processing applications.
- Students who require an introduction to personal computers and productivity software should take ACS-1453(3).

## **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 offence 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 prior to 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-1803-004) 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](mailto: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, 5<sup>th</sup> Floor (Rice Centre)  
204.230.6660 – call or text (confidential line)  
[svrt@uwinnipeg.ca](mailto:svrt@uwinnipeg.ca)

## **Topics to be covered (tentative)**

1. Definition of Data, information, and Information Systems
2. Database concepts; database modeling, data warehousing and mining. Database Management Systems.
3. Information needed at different levels in the organization. Operational, Tactical and Executive information Systems. Information Processing modes (Batch, Online, etc.)
4. Transaction Processing Systems and Management Information Systems.
5. Functional Area Systems: - Accounting, HR, Marketing, Operations
6. Enterprise Systems: Customer Relationship Management (CRM) Systems, Supply Chain, Product Lifecycle Management (PLM), Enterprise Resource Planning, Value Chain
7. Decision Support Systems
8. Expert Systems, Knowledge Management Systems, Artificial Intelligence
9. Hardware and Software
10. Telecommunications, The Web
11. eCommerce
12. Security, ethics, and internal controls. System security components. Access controls, application controls, system controls. Information system auditing. Trust Services (e.g., Web Trust) and seals.
13. System Acquisition and Development

- 14. Social Impact of IS
- 15. Careers in Information Systems

Note that all topics listed may be covered 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.*