



# THE UNIVERSITY OF WINNIPEG

## APPLIED COMPUTER SCIENCE

Course Number: ACS-4901-001  
Course Name: Senior Systems Development Project  
Course Webpage: <https://nexus.uwinnipeg.ca/d2l/home/72710>

### Instructor Information

<b>James Deng</b> <b>(Project Coordinator)</b>	<b>Bradley Rey</b>
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**Class meeting time:** Orientation Class will be held on Wednesday Sep. 3 (10:00-11:15) in 3D03.  
Weekly team meeting time will be determined by the individual teams and their IS director.

### Important Dates

1. First Class:	Wednesday, September 3, 2025
2. Reading week (no classes):	October 12 – 18, 2025
3. Christmas Break	December 23, 2025 – January 1, 2026
4. Final Withdrawal Date w/o academic penalty*:	Friday, February 13, 2026
5. Winter Reading Week (no classes)	February 15-21, 2026
6. University closures:	
Truth and Reconciliation Day	Tuesday, September 30, 2025
Thanksgiving	Monday, October 13, 2025
Remembrance Day	Tuesday, November 11, 2025
Christmas Break	December 23, 2025 – January 1, 2026
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. Please note that withdrawing before the VW date does not necessarily result in a fee refund.

## **Course Objectives / Learning Outcomes**

This course applies the principles and techniques of software project management covered in ACS-3901(3) to a significant systems development project undertaken by students in teams. A project proposal, project plan, regular status reports, and a completion report are required. All work must conform to proper analysis, design, programming, and documentation standards. Each team holds status reviews at appropriate life-cycle milestones. A final presentation and a formal demonstration of the system are required at the end of the project.

## **Evaluation Criteria**

### **Team Component (35%)**

System Quality / Functionality <ul style="list-style-type: none"><li>• Overall design</li><li>• Match with user requirements</li><li>• Technical reliability</li><li>• System features (e.g. input forms, screens and reports, system performance)</li><li>• Flexibility for future improvements</li></ul>	<b>Possible Marks (15%)</b>
Documentation <ul style="list-style-type: none"><li>• All systems documentation and project documentation such as Proposal, Project Plans, Architectural Plans, SSR, DDR, Project Completion Report, Technical and User Manuals, Correspondence, Project Repository, Program source code.</li></ul>	<b>Possible Marks (10%)</b>
Project Management <ul style="list-style-type: none"><li>• All team members' collective contribution to ensuring that the project can be managed efficiently and effectively. This includes meeting deadlines and equitable distribution of workload.</li></ul>	<b>Possible Marks (10%)</b>

### Individual Component (65%)

Individual Contribution <ul style="list-style-type: none"><li>• Quality of your own deliverables</li><li>• Commitment to the project</li><li>• Quality, thoroughness and honesty of peer evaluations</li><li>• Ability to communicate with end-users, instructors, team members and technical support personnel</li></ul>	Possible Marks <b>(35%)</b>
Presentation Content/Skills <ul style="list-style-type: none"><li>• Systems Study Review</li><li>• Project Completion Seminar</li><li>• Development Review/Testing</li><li>• Systems Demonstration</li></ul>	Possible Marks <b>(20%)</b>
Individual Time Management <ul style="list-style-type: none"><li>• Ability to meet your own task deadlines</li></ul>	Possible Marks <b>(5%)</b>
Participation <ul style="list-style-type: none"><li>• Preparedness for and participation in, and quality of contribution to team meetings</li></ul>	Possible Marks <b>(5%)</b>

NOTE: Breakdown of marks returned before the VW date (30%)

Team component: **7%** out of 35% (total)

Individual Contribution **10%** out of 35% (total)

Presentation Content/Skills (SSR) **8%** out of 20% (total)

Individual Time Management **2.5%** out of 5% (total) from September to December

Participation **2.5%** out of 5% (total) from September to December

Peer evaluations will be required by each student at the end of Fall term and at the end of the course.

## Deadlines

• Submission of proposed team member roles	Week of September 2, 2025
• Initializing Meeting with the Project Sponsor	Week of September 8
• Project Proposal	Week of September 26
• Project Plan Review	Week of November 10
• Mid-Project Review	Week of January 12, 2026
• <b>Development Review*</b>	<b>Week of February 9</b>
• Final turnover to user; sign-off from user	Week of March 16
• Project Completion Seminar and System Demo.	Friday, March 27
• Sign-off on Course Completion Checklist.	Week of April 6

\* Only for the teams using the Waterfall Model

## Email Communication

Emails from accounts at uwinnipeg.ca are usually not filtered by the UofW email filter. Thereby it is recommended electronic communication used for the course utilize a UofW email account to minimize the risk of filtering. **Do not** use the Nexus email system, i.e., mail.nexus.uwinnipeg.ca, Nexus mailboxes are not monitored on a regular basis.

The email sent to the instructors **must include your full name and the COURSE# (like ACS-4901) in the subject line** of your email. If your email address already includes your name (like in UW's webmail) then you can skip typing your name. A respectful manner is also expected in email communications.

## 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%

## Required Text Book / Reading List

- Past Project Repositories
- ***Senior Systems Development Course Standards and Project Handbook***, Applied Computer Science Department, University of Winnipeg, 2025.

## **Prerequisite Information**

- **Prerequisites:** A grade of at least C in ACS-2814/3 (or the former ACS-2914/3), ACS-3901/3, ACS-3902/3, ACS-3909/3, and ACS-3913/3, and a minimum average GPA of 2.0 in all ACS.xxxx courses previously taken.

**Restrictions:** Students cannot hold credit in this course and the former BUSC-3920 | BUSC-4901

## **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 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***

**Students are encouraged to use AI tools to support their learning; however, the use of AI tools in any submitted coursework for this course is strictly 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 if 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:

- 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>

### **Class Cancellation, Correspondence with Students 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.

It's critical to let your IS director know if you ever consider withdrawing from the course.

## **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>.

*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.*