



THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE

Course Number: ACS-4901-001
Course Name: Senior Systems Development Project Course
Course Webpage: [Will be available on Nexus](#)

Instructor Information

James Deng (Project Coordinator)	Sheela Ramanna
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Class meeting time: Orientation Class will be held on Wednesday Sep. 8 (11:30-12:45) via Zoom
Weekly team meeting time will be determined by the individual team and their IS director.

Important Dates

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| 1. First Class: | Wednesday, September 8, 2021 |
| 2. Reading Week (no classes): | October 10-16, 2021 |
| 3. Final Withdrawal Date w/o academic penalty*: | Wednesday, February 16, 2022 |
| 4. Winter Reading Week: (no classes) | February 20-26, 2022 |
| 5. University closures: | |
| Truth and Reconciliation Day | Thursday, September 30, 2021 |
| Thanksgiving Day | Monday, October 11, 2021 |
| Remembrance Day | Thursday, November 11, 2021 |
| December break | December 24-January 4, 2022 |
| Louis Riel Day | Monday, February 21, 2022 |
| Good Friday | Friday, April 15, 2022 |

*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.

Deadlines¹

<ul style="list-style-type: none">• Submission of proposed team member roles• Initial Meeting with the Project Sponsor• Project Proposal• Project Plan• Systems Study Review• Detailed Design Review• Development Review• Delivery of the system to your user for testing• Final turnover to user; sign-off from user• Project Completion Seminar and System Demo.• Sign-off on Course Completion Checklist.• Sign-off on completed repository	Week of September 13 Week of September 20 Week of September 27 Week of October 4 Week of November 15, 2021 Week of January 10, 2022 Week of February 7, Week of February 14, Week of March 14, Friday, March 25, Week of April 4, Monday, April 11,
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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.

Remote Learning

All course material will be available on Nexus or sent via email to Team leaders. Meeting times are reserved for further discussion and Q&A.

Students must be available via Zoom during regular weekly meetings with the IS director and other meetings with project sponsors/end users/team members.

- Students must display their real/full name
- During the team meeting times, students should turn on their video

Students can find answers to frequently asked questions related to remote learning here: <https://www.uwinnipeg.ca/covid-19/remote-learning-faq.html>.

Note: 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.

¹ Please refer to the **Senior Systems Development Course Standards Handbook and Project Handbook**, Applied Computer Science Department, University of Winnipeg, 2021 for more details.

Evaluation Criteria

Team Component (35%)

System Quality / Functionality <ul style="list-style-type: none">• Overall design• Match with user requirements• Technical reliability• System features (e.g. input forms, screens and reports, system performance)• Flexibility for future improvements	Possible Marks (15%)
Documentation <ul style="list-style-type: none">• 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.	Possible Marks (10%)
Project Management <ul style="list-style-type: none">• 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.	Possible Marks (10%)

Individual Component (65%)

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

Midterm Mark Breakdown (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

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

NOTE: Students must be prepared to make presentations (ex: SSR, PCR, Technical review) via ZOOM.

NOTE: Students may be required to upload deliverables (ex: Project Proposal, Plan, SSR Document and so on) to cloud systems such as Dropbox, Nextcloud or other as determined by individual IS Directors.

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 Textbook / Reading List

- Past Project Repositories
- ***Senior Systems Development Course Standards and Project Handbook***, Applied Computer Science Department, University of Winnipeg, 2021.

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, 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 92/91.3920/6

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. Students must put ACS-4901 in the subject line of the email. Email communications are expected to be in a respectable manner.

Regulations, Policies, and Academic Integrity

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

Avoiding Academic Misconduct: 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). Please note, in particular, the subsection of Student Discipline pertaining to plagiarism and other forms of cheating.

Detailed information can be found at the following:

- Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-policy.pdf> and <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-procedures.pdf>
- UW Library video tutorial "Avoiding Plagiarism"
<https://www.youtube.com/watch?v=UvFdxRU9a8g>

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.

Non-academic misconduct. Students are expected to conduct themselves in a respectful manner on campus and in the learning environment irrespective of 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/institutional-analysis/docs/policies/acceptable-use-of-information-technology-policy.pdf>
- Non-Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-policy.pdf> and <https://www.uwinnipeg.ca/institutional-analysis/docs/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://copyright.uwinnipeg.ca/docs/copyright_policy_2017.pdf

Privacy

Students have rights in relation of the collecting of personal data the University of Winnipeg:

<https://www.uwinnipeg.ca/privacy/admissions-privacy-notice.html>.

More information:

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

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.

Please let 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.