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/48275

Instructor Information

Victor Balogun (Project Coordinator)	Simon Liao
3D18 (office)	3D31 (office)
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Class meeting time: Orientation Class will be held on Wednesday Sep. 7 (13:00-14:15) in 3D03. Weekly team meeting time will be determined by the individual teams and their IS director.

Important Dates

1. First Class: Wednesday, September 7, 2022
2. Reading Week (no classes):   October 9-15, 2022
3. Christmas Break   December 23, 2022 – January 2, 2023
4. Final Withdrawal Date w/o academic penalty*:   Tuesday, February 14, 2023
5. Winter Reading Week (no classes)   February 19-25, 2023
6. University closures: Truth and Reconciliation Day   Friday, September 30, 2022

Thanksgiving	Monday, October 10, 2022
Remembrance Day	Friday, November 11, 2022
Louis Riel Day	Monday, February 20, 2023
Good Friday	Friday, April 7, 2023

*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.

Deadlines[1]

• Submission of proposed team member roles	Week of September 12, 2022

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[1] Please refer to the ***Senior Systems Development Course Standards Handbook and Project Handbook***, Applied Computer Science Department, University of Winnipeg, 2022 for more details.

• Initial Meeting with the Project Sponsor	Week of September 19
• Project Proposal	Week of September 26
• Project Plan	Week of October 3
• Systems Study Review	<mark>Week of November 14, 2022</mark>
• Detailed Design Review	Week of January 9, 2023
• Development Review	Week of February 6
• Delivery of the system to your user for testing	Week of February 13
• Final turnover to user; sign-off from user	Week of March 13
• Project Completion Seminar and System Demo.	<mark>Friday, March 24,</mark>
• Sign-off on Course Completion Checklist.	Week of April 3
• Sign-off on completed repository	Monday, April 10

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 • 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 • 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 • 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 • 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 • Systems Study Review • Project Completion Seminar • Development Review/Testing • Systems Demonstration	**Possible Marks (20%)**
Individual Time Management • Ability to meet your own task deadlines	**Possible Marks (5%)**
Participation • 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 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.

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.

The email sent to the instructor **must include your full name, your student#, 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 there. 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 Textbook / Reading List

- Past Project Repositories
- ***Senior Systems Development Course Standards and Project Handbook***, Applied Computer Science Department, University of Winnipeg, 2022.

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

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 204.988.7611. 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.

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.

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.

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.