

**McMaster University, Software Engineering 4G06 & Mechatronics Engineering 4TB6
Capstone Project Fall 2016 & Winter 2017**

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Lectures: Term 1 & 2
Tuesday 08:30 – 09:20 in KTH/B135
Thursday 08:30 – 09:20 in KTH/B135
Friday 08:30 – 09:20 in KTH/B135

Labs: Project room is available

Objectives: Apply theory and principles learned during the students' undergraduate curricula to a practical project that involves theory and design.

Outline: There will be sponsored projects and students may suggest projects they define. I reserve the right to veto projects and/or suggest changes.

Schedule of deliverables:

(Dates may be shifted in consultation with class and to fit with final demo date.)

Deliverable	% of grade	Date Due
Project choice & justification	-	October 3, 2016
Project goals	2 %	October 14, 2016
Development process & implementation	1 %	October 24, 2016
Draft system requirements	5 %	November 7, 2016
Proof of concept demo	5 %	December 1/2, 2016
Draft system design	5 %	December 5, 2016
Process audits	1 %	TBA
Group performance review/audit	1 %	End of each term
Hazard Analysis Rev 0	1 %	January 9, 2017
Draft Design for each system component	5 %	January 23, 2017
Implementation Rev 0	10 %	February 9/10, 2017
V & V on Rev 0	10 %	February 27, 2017
Final version (Rev 1)		
•Goals & Requirements	2 %	March 3, 2017
•Hazard Analysis	2 %	March 10, 2017
•Design	5 %	March 20, 2017
•Implementation	10 %	April 4/5, 2017
•V & V	10 %	April 17, 2017
•FINAL DEMO	20 %	Fri April 28, 2017 (tentative)
Participation	5 %	Throughout

Note: Participation includes completion of online surveys & quizzes and participation in group discussions.

Course Pages:

<http://avenue.mcmaster.ca/>

This is where you find course information, class notes, additional course material, and grades.

It is your responsibility to be aware of the information in the course Web pages, and to check regularly for announcements.

The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.

Discrimination:

“The Faculty of Engineering is concerned with ensuring an environment that is free of all adverse discrimination. If there is a problem, that cannot be resolved by discussion among the persons concerned, individuals are reminded that they should contact their Department Chair, the Sexual Harassment/Anti-Discrimination Officer (SHADO), as soon as possible.”

Academic Dishonesty:

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means

and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit

with a notation on the transcript (notation reads: “Grade of F assigned for academic dishonesty”),

and/or suspension or expulsion from the university.

It is your responsibility to understand what constitutes academic dishonesty. For information on

the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, located at

<http://www.mcmaster.ca/policy/Students-AcademicStudies/index.html>

The following illustrates only three forms of academic dishonesty:

(1) Plagiarism, e.g. the submission of work that is not one’s own or for which other credit has

been obtained.

(2) Improper collaboration in group work.

(3) Copying or using unauthorized aids in tests and examinations.