

**McMaster University, Software Engineering 4G06 & Mechatronics Engineering 4TB6  
Capstone Project    Fall 2018 & Winter 2019**

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**Lectures:** Term 1 & 2  
Monday    12:30 – 13:20 in BSB/B135  
Tuesday    13:30 – 14:20 in BSB/B135  
Thursday    12:30 – 13:20 in BSB/B135  
Note: Sometimes, group meetings will be held in ITB 225 rather than BSB/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 poster date and final presentation date.)

<b>Deliverable</b>	<b>% of grade</b>	<b>Date Due</b>
Project choice & justification	-	September 23, 2018
Project goals	2 %	September 30, 2018
Draft system requirements	5 %	October 28, 2018
Proof of concept (includes demo contract)	5 %	November 12-15, 2018
Development process	1 %	November 18, 2018
Draft system design	5 %	December 2, 2018
Process audits (Avenue Quiz)	1 %	December 16, 2018
Group performance review/audits (Av. Quiz)	1 %	December 16, 2018
Hazard Analysis Rev 0	1 %	January 13, 2019
Draft Design for each system component	5 %	January 13, 2019
Presentation Demos Rev 0	7 % + 3 % completeness	January 28-31, 2019
V & V on Rev 0	10 %	February 17, 2019
Final version (Rev 1)		
Goals & Requirements	2 %	February 24, 2019
Hazard Analysis	2 %	March 3, 2019
Design	5 %	March 17, 2019
Presentation Demos Rev 1	7% + 3 % completeness	March 25-28, 2019
V & V	8 %	April 7, 2019
<b>Presentation Posters</b>	<b>7%</b>	<b>(to be confirmed) April 9, 2019</b>
<b>FINAL Presentations</b>	<b>15 %</b>	<b>(to be confirmed) Mon April 29, 2019</b>
Group performance review/audits (Av. Quiz)	1 %	April 28, 2019
Participation	4 %	Throughout – may affect individual's grade

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.