

COURSE OUTLINE

BME/ECE/SENG 499 – Design Project 2 Term – Summer 202005

Instructor

Dr. F. Gebali, PEng
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Office Hours

Days: By appointment
Location: EOW 431

Course Lectures

Lectures on Thursdays 4:30 pm-5:20 pm. Check course website for online access tools

Course Objectives

The Design Project course provides you an opportunity to acquire formal design experience by working on a project in a team. You and your team mates will select and execute a project approved and supervised by a faculty member. You will also get an opportunity to demonstrate your work to general public towards the end of the term.

Learning Outcomes

By the end of the course, you should be able to

1. Formulate a problem definition and design objectives for a design activity based on the requirements and constraints imposed by the client/stakeholder.
2. Plan project timelines with milestone dates and activities.
3. Generate and evaluate conceptual design ideas by performing a detailed literature review.
4. Explain the social implications of the proposed engineering work.
5. Apply appropriate mathematical methods for the analysis of the engineering design.
6. Participate effectively in teamwork during engineering design.
7. Produce a functional prototype or perform extensive simulation of the design.
8. Test, evaluate and document the performance of the prototype.
9. Prepare professional reports detailing the design activity.
10. Create a webpage to publicize the design activity.

Syllabus

N/A

Required Text

N/A

Assessment

Activity	Grade
Poster	15%
Video	15%
Work Log	5%
Progress Report	15%
Project Report	50%

Note 1: Public demo might be added, with adjusted weights, depending on the pandemic situation.

Note 2: The final grade obtained from the above marking scheme for the purpose of GPA calculation will be based on the percentage-to-grade point conversion table as listed in the current Undergraduate Calendar. <https://web.uvic.ca/calendar2020-01/undergrad/info/regulations/grading.html>

There will be no supplemental examination for this course.

<https://web.uvic.ca/calendar202005/undergrad/info/regulations/exams.html#>

Note to students: Students who have issues with the conduct of the course should discuss them with the instructor first. If these discussions do not resolve the issue, then students should feel free to contact the Chair of the Department by email or the Chair's Assistant to set up an appointment.

Accommodation of Religious Observance:

<https://web.uvic.ca/calendar2020-05/undergrad/info/regulations/religious-observanc.html>

Policy on Inclusivity and Diversity:

July31by4:30pm

Standards of Professional Behaviour: You are advised to read the Faculty of Engineering document Standards for Professional Behaviour, which contains important information regarding conduct in courses, labs, and in the general use of facilities.

<https://www.uvic.ca/engineering/assets/docs/professional-behaviour.pdf>

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult the entry in the current Undergraduate Calendar for the UVic policy on academic integrity.

<https://web.uvic.ca/calendar2020-05/undergrad/info/regulations/academic-integrity.html>

Equality: This course aims to provide equal opportunities and access for all students to enjoy the benefits and privileges of the class and its curriculum, and to meet the syllabus requirements. Reasonable and appropriate accommodation will be made available to students with documented disabilities (physical, mental, learning) in order to give them the opportunity to successfully meet the essential requirements of the course. The accommodation will not alter academic standards or learning outcomes, although the student may be allowed to demonstrate knowledge and skills in a different way. It is not necessary for you to reveal your disability and/or confidential medical information to the course instructor. If you believe that you may require accommodation, the course instructor can provide you with information about confidential resources on campus that can assist you in arranging an appropriate accommodation. Alternatively, you may want to contact the Centre for Accessible Learning located in the Campus Services Building. <https://www.uvic.ca/services/cal/>. The University of Victoria is committed to promoting, providing, and protecting a positive, supportive, and safe learning and working environment for all its members.

Course Lecture Notes: Unless otherwise noted, all course materials supplied to students in this course have been prepared by the instructor and are intended for use in this course only. These materials are NOT to be re-circulated digitally, whether by email or by uploading or copying to websites, or to others not enrolled in this course. Violation of this policy may in some cases constitute a breach of academic integrity as defined in the UVic Calendar.

Sexualized Violence Prevention and Response at UVic: UVic takes sexualized violence seriously, and has raised the bar for what is considered acceptable behaviour. We encourage students to learn more about how the university defines sexualized violence and its overall approach by visiting www.uvic.ca/svp. If you or someone you know has been impacted by sexualized violence and needs information, advice, and/or support please contact the sexualized violence resource office in Equity and Human Rights (EQHR). Whether or not you have been directly impacted, if you want to take part in the important prevention work taking place on campus, you can also reach out:

Where: Sexualized violence resource office in EQHR; Sedgewick C119

Phone: 250.721.8021

Email: svpcoordinator@uvic.ca

Web: www.uvic.ca/svp

Office of the Ombudsperson: The Office of the Ombudsperson is an independent and impartial resource to assist with the fair resolution of student issues. A confidential consultation can help you understand your rights and responsibilities. The Ombudsperson can also clarify information, help navigate procedures, assist with problem-solving, facilitate communication, provide feedback on an appeal, investigate and make recommendations. Phone: 250-721-8357; Email: ombuddy@uvic.ca; Web: <https://uvicombudsperson.ca/>