CIVE 400 – Cross Disciplinary Capstone Design Project

Term – Spring 2020 (202001)

We acknowledge with respect the Lekwungen peoples on whose traditional territory the university stands and the Songhees, Esquimalt and WSÁNEĆ peoples whose historical relationships with the land continue to this day.

Instructor:
Dr. Phalguni Mukhopadhyaya
Phone: 250-472-4546
E-mail: phalguni@uvic.ca
Office: ECS 318

Office Hours:
Days: Monday & Friday
Time: By appointment only
Location: ECS 318

List all prerequisites and co-requisites: All of CIVE 310, CIVE 315, CIVE 340, CIVE 345, CIVE 350, CIVE 351, CIVE 352, CIVE 360, CIVE 370, CIVE 385, CSC 349A, ENGR 002; and 6 units of 400-level CIVE courses or ENGR 004.

Course Objectives
Team or individual design project. Key sustainability metrics; integration of fundamentals acquired in mathematics, science, engineering, and complementary studies. A project proposal, a progress report, an oral presentation, and a comprehensive final report are required.

Learning Outcomes
At the end of this course, students will be able to:
- Work in a group environment
- Perform a literature search and gather information relevant to a project
- Synthesize the information into meaningful input for their projects
- Describe the project constraints, innovations and the iterative process involved in civil engineering design
- Design a civil engineering project in its entirety - idea to complete plan
- Effectively communicate verbally
- Demonstrate effective technical writing skills

Scheduled Meeting Times

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Laboratory</th>
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<tbody>
<tr>
<td>Section: A01/CRN 20533</td>
<td>Section: B01/CRN 20535</td>
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<tr>
<td>Day: Monday</td>
<td>Days: Monday/Wednesday/Friday</td>
</tr>
<tr>
<td>Time: 2:30 PM – 3:20 PM</td>
<td>Time &amp; Location: Available from UVic Web page</td>
</tr>
<tr>
<td>Location: Clearihue Building A206</td>
<td>TA (email): Bhumika Bhatta (<a href="mailto:bhumikabhatta47@gmail.com">bhumikabhatta47@gmail.com</a>)</td>
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| Section: A02/CRN 20534 | Section: B02/CRN 20536 |
| Day: Monday | Days: Monday/Wednesday/Friday |
| Time: 3:30 PM – 4:20 PM | Time & Location: Available from UVic Web page |
| Location: Clearihue Building A302 | TA (email): Bhumika Bhatta (bhumikabhatta47@gmail.com) |
References
Available from the library and other sources as applicable.

Assessment

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percentage</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Proposal</td>
<td>15%</td>
<td>Due Date: 31&lt;sup&gt;st&lt;/sup&gt; January 2020 (to be confirmed)</td>
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<tr>
<td>Interim Report</td>
<td>25%</td>
<td>Due Date: 2&lt;sup&gt;nd&lt;/sup&gt; March 2020 (to be confirmed)</td>
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<tr>
<td>Oral Presentation</td>
<td>15%</td>
<td>Due Date: 23/25/27&lt;sup&gt;th&lt;/sup&gt; March 2020 (to be confirmed)</td>
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<tr>
<td>Poster</td>
<td>05%</td>
<td>Due Date: 01&lt;sup&gt;st&lt;/sup&gt; April 2020 (to be confirmed)</td>
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<tr>
<td>Final Report</td>
<td>40%</td>
<td>Due Date: 09&lt;sup&gt;th&lt;/sup&gt; April 2020 (to be confirmed)</td>
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Assignments: (Include Assignment Schedule) (Description & Method of Delivery)
Students are required to complete a project proposal, and two reports (interim and final)

Laboratories: (Description & Method of Delivery)
The laboratory sessions (labs) are mandatory for students to attend. The labs are scheduled every week and students will carry on their project work independently during the laboratory sessions.

Projects: (Description & Method of Delivery)
Details about the group projects will be given to students in class and posted on CourseSpaces.

NOTE: (sample notes for all instructors)
Failure to pass the final exam (i.e. Final Report) will result in a failing grade for the course.

Course Withdrawal Deadlines:

- January 19: Withdrawal with 100% reduction of tuition fees
- February 9: Withdrawal with 50% reduction of tuition fees
- February 29: Last day for withdrawal (no fees returned)

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.

There will be no supplemental examination for this course.

Grading: Please see the Grading information in the current calendar at: [https://web.uvic.ca/calendar2020-01/undergrad/info/regulations/grading.html#](https://web.uvic.ca/calendar2020-01/undergrad/info/regulations/grading.html#)

Course policies and guidelines

Late Assignments: No late assignments will be accepted unless prior arrangements have been made with the instructor at least 48 hours before the assignment due date.

Coursework Mark Appeals: All marks must be appealed within 7 days of the mark being posted.

Attendance: We expect students attend all lectures and labs. It is entirely the students’ responsibility to recover any information or announcements presented in lectures from which they were absent.

Electronic devices in labs and lectures: No unauthorized audio or video recording of lectures is permitted.
Plagiarism: Submitted work may be checked using plagiarism detection software. Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult the link given below for the UVic policy on academic integrity. Note that the university policy includes the statement that "A largely or fully plagiarized assignment should result in a grade of F for the course."

Academic Integrity: You must make yourself aware of the University of Victoria guidelines and policy concerning fraud and academic integrity at this link, https://www.uvic.ca/current-students/home/academics/academic-integrity/index.php

Policy on Academic Integrity: https://web.uvic.ca/calendar2020-01/undergrad/info/regulations/academic-integrity.html

Standards of Professional Behaviour: You are advised to read the Faculty of Engineering document Standards for Professional Behaviour in current Undergraduate Calendar, which contains important information regarding conduct in courses, labs, and in the general use of facilities. Please find the document at this link: http://www.uvic.ca/shared/shared%5fengineering/docs/professional-behaviour.pdf

Notes 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 Secretary to set up an appointment.

University of Victoria Privacy Policy: If any student has concerns about their private information being stored or accessed outside of Canada, they are required to inform the course instructor about their concerns before the end of second week of classes.

Accommodation of Religious Observance: See entry in current Undergraduate Calendar.

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 for 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, and supportive and safe learning and working environment for all its members.

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

Policy on Inclusivity and Diversity: See the entry in the current Undergraduate Calendar.

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.

Syllabus statement
A note to remind you to take care of yourself. Do your best to maintain a healthy lifestyle this semester by eating well, exercising, getting enough sleep and taking some time to relax. This will help you achieve your goals and cope with stress. All of us benefit from support during times of struggle. You are not alone.

Counselling Services - Counselling Services can help you make the most of your university experience. They offer free professional, confidential, inclusive support to currently registered UVic students. https://www.uvic.ca/services/counselling/

Health Services - University Health Services (UHS) provides a full service primary health clinic for students, and coordinates healthy student and campus initiatives. http://www.uvic.ca/services/health/

Centre for Accessible Learning - The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations https://www.uvic.ca/services/cal/. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

Elders’ Voices - The Office of Indigenous Academic and Community Engagement (IACE) has the privilege of assembling a group of Elders from local communities to guide students, staff, faculty and administration in Indigenous ways of knowing and being. https://www.uvic.ca/services/indigenous/students/programming/elders/index.php

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: uvicombudsperson.ca.