



CIVE 412 – Infrastructure Engineering for Indigenous Communities

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.

Kear Porttris

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Office: ECS 315

Office Hours

Days: TBD
Time: TBD
Location: ECS 315

List all prerequisites and co-requisites: N/A

Course Objectives

This course introduces concepts and procedures for designing, building, operating and maintaining infrastructure within Indigenous communities in Canada. Relationships are important in this context and concepts of doing business as usual will also be introduced, which will include political and relationship building techniques.

Learning Outcomes

- Write proposals to apply for funding for infrastructure development grants on First Nations reserves;
- Describe and apply the rules for business establishment in Indigenous communities;
- Develop construction and maintenance plans for projects in Indigenous communities;
- Develop feasibility plans for residential building in Indigenous communities;
- Plan renewable energy projects in Indigenous communities.

Syllabus

A01/CRN 20538
Days: Wed
Time: 12:30pm-3:20pm
Location: CLE A202

TA: Pierre Iachetti (pierrei@uvic.ca)
Eric Wilson (ewwilson@uvic.ca)

Required Text: N/A

Optional text

21 Things You May Not Know About the Indian Act
Bob Joseph
2018

Assessment

Assignments	10%
Reflection Papers	10%
Participation	10%
Final Project & Presentation	70%

Dates:

Assigned Jan 29th
Report Due April 1st
Presentation April 1st

Optional Presentation	(10%)
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Dates:

Each class

Assignments: (Digital Submission)

Assignment #	Modules	Start	Due (5pm)
1	FN Introduction	January 8 th	January 15 th
2	Pole Raising	February 5 th	February 12 th
3	DAR	TBD	TBD

Reflection Questions

Students will be required to submit five 1-page (approximately 600 words) documents based on a community tour, guest lecture or student presentation, and must include but should not be limited to:

- Three take-aways from the topic;
- Two questions you have;
- One way this topic impacts you as a person, professional or both;

There is no set format for the reflection questions. Reflection questions are due the Friday following the lecture/presentation or community tour it was based on and must be submitted digitally.

Optional Student Presentations

There will be limited opportunities for students to make presentations every class. For students that choose to make presentations, their weighted average will include the presentation.

Students will have up to 10 minutes to present **and** take questions on topics or projects that have a significant impact on Indigenous communities. The material for these presentations can be sourced from the media, archives, courts, academic articles/journals, personal experience, et cetera. Marking will be based on the difficulty of the subject matter, the depth of the critical analysis and quality of the presentation.

Students must submit their source material the Monday before their class presentation, by 9am. The source material will then be shared with the class to encourage more robust engagement and discussion.

Projects:

The final project will be community based where the assigned groups will be presenting their final product to community members, administrative staff and/or other related professionals.

Project documents should account for readers who do not have an engineering or technical background but contain adequate content to enable engineering professionals to begin work without tremendous effort.

The project may cover many different aspects of engineering and may require resources outside of those presented in this class.

Both digital and hardcopy submissions will need to be required.

NOTE:

- Failure to attend the Community Tours, submit all reflection questions as well as pass the Assignments and Team project will result in a failing grade for the course.
- Projects will be done in groups of 4 to 6 students.

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#>)

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.

Electronic devices in midterms and exams: Calculators are only permitted for examinations and tests if explicitly authorized and the type of calculator permitted may be restricted. No other electronic devices (e.g. cell phones, pagers, PDA, etc.) may be used during examinations or tests *unless explicitly authorized*.

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.