

Welcome to the Faculty of Engineering and Computer Science



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



The Dean's Welcome

Dr. Mina Hoorfar

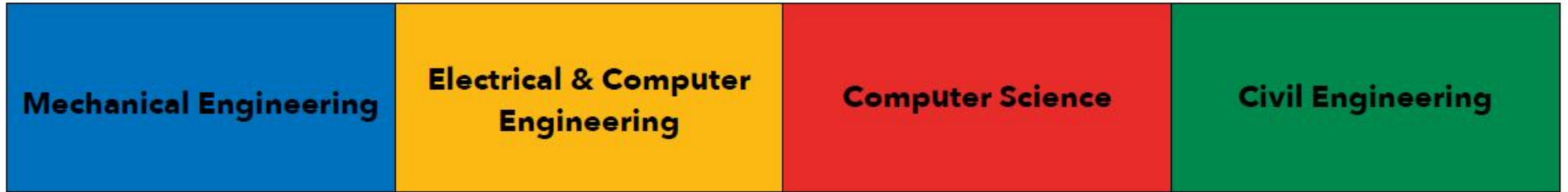


New Student Welcome 2023

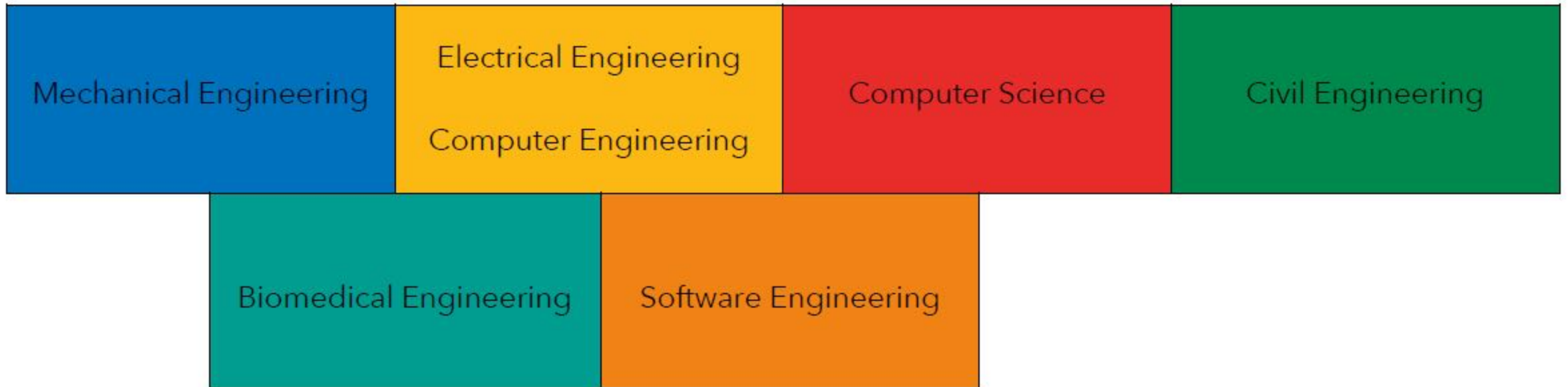


UVic Engineering and Computer Science

4 DEPARTMENTS



7 PROGRAM AREAS



Introductions:

Dr. Kevin Stanley: Chair, Computer Science

Dr. Thomas Froese: Chair, Civil Engineering

Dr. Michael McGuire: Chair, Electrical & Computer Engineering

Dr. Brad Buckham: Chair, Mechanical Engineering

Dr. Chris Dennison: Director, Biomedical Engineering

Dr. Stephen Neville: Director, Software Engineering

Co-op: Meeta Khurana: Associate Director, Co-op & Career

Assistant Dean: [Jessica Vandenberghe](#)



Faculty of Engineering and Computer Science

New Student Welcome 2023

LillAnne Jackson
Associate Dean, Undergraduate



In all our degrees:

- technical knowledge
- hands-on skills
- problem solving skills
- design skills



Every degree emphasizes:

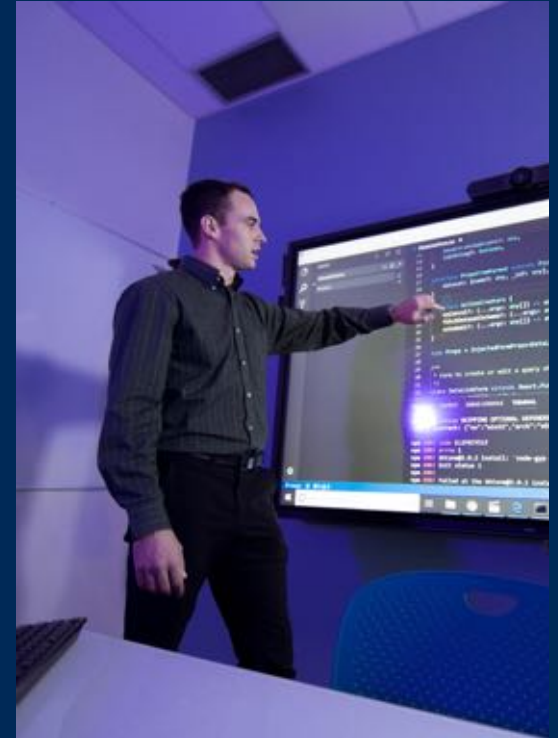


- effective communication
- individual & team work
- societal impacts & sustainability
- prioritize:
 - professionalism
 - making ethical choices, and
 - equity

Professional Faculty

Code of Ethics:

- Engineers & Geoscientists of BC (EGBC)
 - <https://www.egbc.ca/Code-of-Ethics>
- Association for Computing Machinery (ACM)
 - <https://www.acm.org/code-of-ethics>



truth

honesty

trustworthiness

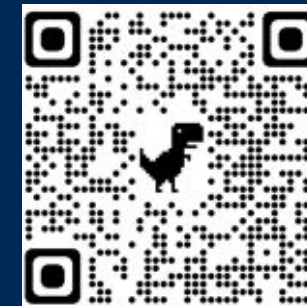
safeguard human life

safeguard the environment



Professionalism at UVIC

- UVIC Academic Integrity
 - <https://www.uvic.ca/students/academics/academic-integrity/index.php>
- Faculty Standards of Professional Behaviour
 - https://www.uvic.ca/ecs/_assets/docs/student-forms/professional-behaviour.pdf



Program & Course Legal Definitions

- UVIC Academic Calendar:
<http://www.uvic.ca/calendar/undergrad>
- Course Outlines: [CSC 110](#) [CSC 111](#)



Learning

High School

≠

University



What's different in university?

Hours in Class

- Less class
- More independent study

Grading

- Less frequent; worth more
- Expected vs. required work

Learning type

- Deeper
- Connect and extend vs. memorize

Independence

- You choose
- Self-check

What do professors expect?

Engagement - be there and do the work

Workload expectations – the 2:1 (or 3:1 ?) rule

Read outline: pay attention to instructions, purpose and context

Break tasks down and prioritize

Take advantage of instructor availability

Other Life Activities . . .



Working while Studying:

- I will not be working
- I will work part-time (< 20 hours/week)
- My work will approach full-time (\geq 20 hours/week)

You decide . . .

168 HOURS IN WEEK

- 23 -- in class
- 2 x 23 -- study: 2 hours (min) per class hour
- 7 x 7 -- sleeping (min)
- 21 x 1 -- meals
- 7 x 2 -- exercise, shower, dress, transportation
- 7 x 2 -- email, phone, social media, etc.

TIME FOR WORK = 1 hour

Which grade you receive!

Exercise and Socializing

Critical for your academic success:

- physical health: exercise, nutrition ...
- social interaction: social media, family connection ...
- alcohol, cannabis, other substances??



- It affects your academics
- Keep it legal! . . . And Stay Safe!



This is a big year of transitions ...

- Set goals that work for you
- Make choices that feel right for you
- Communicate with important people

Welcome!



Math & Stats Assistance Centre

Dr. Jane Butterfield



Elliot 165 (Betty & Gilbert Kennedy MSAC)



Library 129 (Learning Commons)

Open study space:
9:30am – 4:30pm Mon-Fri

Tutors available:
9:30am – 1:30pm Mon-Fri



Elliot 165 (Betty & Gilbert Kennedy MSAC)

Tutors available:
2:30pm – 6:30pm Mon-Fri
1:30pm – 5:30pm Sun



Library 129 (Learning Commons)

UVIC.CA/MSAC

Free drop-in tutoring for 100- and 200-level mathematics and statistics.

A friendly and supportive collaborative study space.

Visit our website for schedules and resources!





LTSI: STUDENT ACADEMIC SUCCESS



CENTRE FOR ACADEMIC COMMUNICATION

- Planning for a successful term by understanding academic expectations and time management
- Writing, reading and speaking for a variety of methods including: posters, blogs, presentations and e-portfolios
- Understanding academic integrity and the ethical values of learning

**Learning Commons, Mearns Centre for Learning –
McPherson Library: Offices 135 f, i-m**

uvic.ca/cac | uvic.mywconline.com | cacmgr@uvic.ca



COMMUNITY-ENGAGED LEARNING

- Providing partnerships between students and community through community service learning, community-based research and projects, and field experiences.
- Supporting students to make a vital impact on the community with skills, enthusiasm and knowledge

Cornett Building, Room B132

learnanywhere.uvic.ca/cel | celc1@uvic.ca





University
of Victoria
Engineering

Welcome to the Faculty of Engineering and Computer Science

LeAnne Golinsky and
Irene Statham



University
of Victoria

New Student Welcome 2023



Faculty of Engineering Degrees

BSc	Computer Science
BEng	Biomedical Engineering
	Computer Engineering
	Civil Engineering
	Electrical Engineering
	Mechanical Engineering
BSEng	Software Engineering

WHAT IS ADVISING?

- Program planning & advice
- Registration questions
- Program declarations
- Workload / Success help
- Academic & illness issues
- Campus referrals



because there are
some questions that even
GOOGLE can't answer.



WHO ARE THE ADVISORS?

- 1st Year **LeAnne** engradav@uvic.ca
- Biomedical, Mechanical, Software **Belinda**
engradv1@uvic.ca
- Civil, Computer, Electrical **Alejandra** engradv2@uvic.ca
- Mimi, Tracy and Marika are in the Engineering Undergraduate Office EOW 206 engr@uvic.ca
- Computer Science **Irene** cscadvisor@uvic.ca - drop-in advising, Mondays 1 – 3 pm and Wednesdays 9:30 – 11:30 am ECS 512



Resources for Success

Math Assistance Centre	Blend of drop-in and collaborative sessions ELL 165
Centre for Academic Communication	Academic writing, critical reading, presentation and speaking skills – see the CAC website for details
Learning and Teaching Support and Innovation (LTSI)	All things learning and technology! – technical support with course platforms. See Student portal on LTSI website
Learning Strategies Program	UVIC Learn Anywhere, Learning Strategies program, meet with a Learning Strategist
Chemistry	Meet with the instructor
Physics	Room 129 McPherson Library
PASS Program – Peer Advising	ECS 253 – drop-in/booked app., ecspass@uvic.ca

ALTERNATE FIRST YEAR SCHEDULES

- Reducing course load is fine! ENGR - Do 1st year over 3 terms; CSC flexible schedule
- Slows things down – time for other things!
- Finish 1st year by August instead of April
 - Some courses in Summer session
- Interested? There is still time to change....



UVic GPA

- You are probably familiar with % grades
- At UVic, your official grades are reported on your transcript as Letter Grades
- Letter grades have a 'grade point value'

<https://www.uvic.ca/registrar/assets/docs/ot-legend.pdf>

UVIC Letter	Points
A+	9
A	8
A-	7
B+	6
B	5
B-	4
C+	3
C	2
D	1
F	0
N	0

Your GPA matters

- Your GPA is reviewed twice a year
 - Winter – **September – April**
 - Summer – **May – August**
- Good Standing – 2.0 or better
- Probation – Less than 2.0
- Required to withdraw – unsuccessful probation period
- Acknowledge early warning signs. Come talk to us. We can help!

Program Declarations

- **Engineering**
 - Rank your program choice for 2nd year on our website in February
 - Minimum requirements – 2nd year standing, C+ average and no grades less than C
 - Competitive averages may be required
 - ALL program requirements are considered
 - Declare by: April 30th
 - Decisions by: May 31st
- **Computer Science**
 - After successful completion of CSC 115 (or 116) and Math 122
 - All required CSC, MATH, SENG, STAT and ENGL courses must have minimum grades of C
 - Declare through your program advisor
 - Co-op is separate program, if you want CSC Co-op program you have to apply, see your program advisor.

2nd year...and beyond!

Admitted to the 2nd year of your program?

- Consider your specialization or options
- Consult your advisor

I want to drop a course

September 19 th	100% drop deadline	100% of tuition back for course(s) dropped on or before this date
October 10 th	50% drop deadline	50% of tuition back for course(s) dropped on or before this date
October 31 st	Academic drop deadline	No tuition back, but won't fail the course

Results of assignments, labs, midterm unsatisfactory?

Talk to your advisor!

Use feedback to make the right decisions for you!

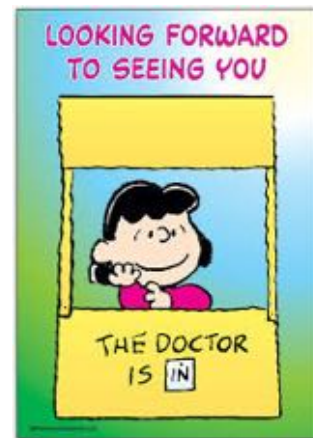
What can I do if...

...I am ill, get in an accident,
something happens in my family

1. Consult immediately with
Counselling Services, Health
Services or another
health professional



2. See your Advisor



Learning and Personal Supports



[Student health in the Health and Wellness Building \(near CARSA\)](#)

- Medical
- Counselling
- Spiritual
- Support Connect – free, confidential mental health support 24/7

[Centre for Accessible Learning \(CAL\)](#)

- Adaptive/Assistance technologies
- Academic accommodations

Engineering and Computer Science Brightspace Advising Site



- Will show up in your **Brightspace dashboard**.
- Contains program planning information, other resources, appointment booking information, forms and more.

Engineering & Computer Science Co-op Program

- Leo Spalteholz



Co-operative education at UVic

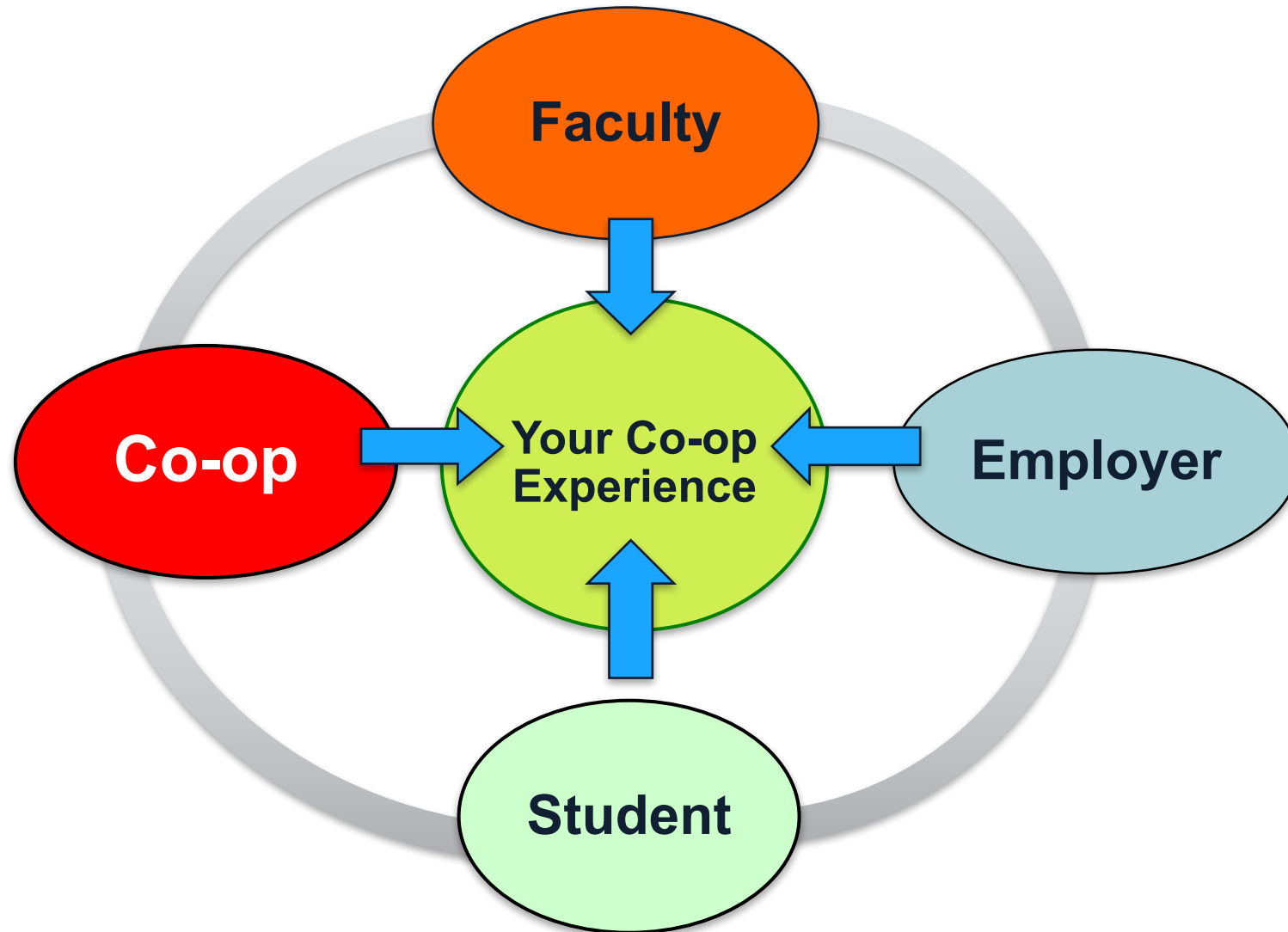
What is co-op?

- **Alternate** class terms with paid work terms
- Gain **hands-on experience** in engineering/computer science
- Discover **what you love to do** and **what you're great at** by putting your knowledge, skills and abilities to work.
- Learn **what the world needs** through hands-on experience
- **Try different career options** (and get paid!)

Engineering students: pay attention in ENGR130, it has everything you need to know about co-op to start

Computer science students: sign up to co-op in your second year.

Integrating Work Terms with Academics – it's a Co-operative Partnership



Computer Science

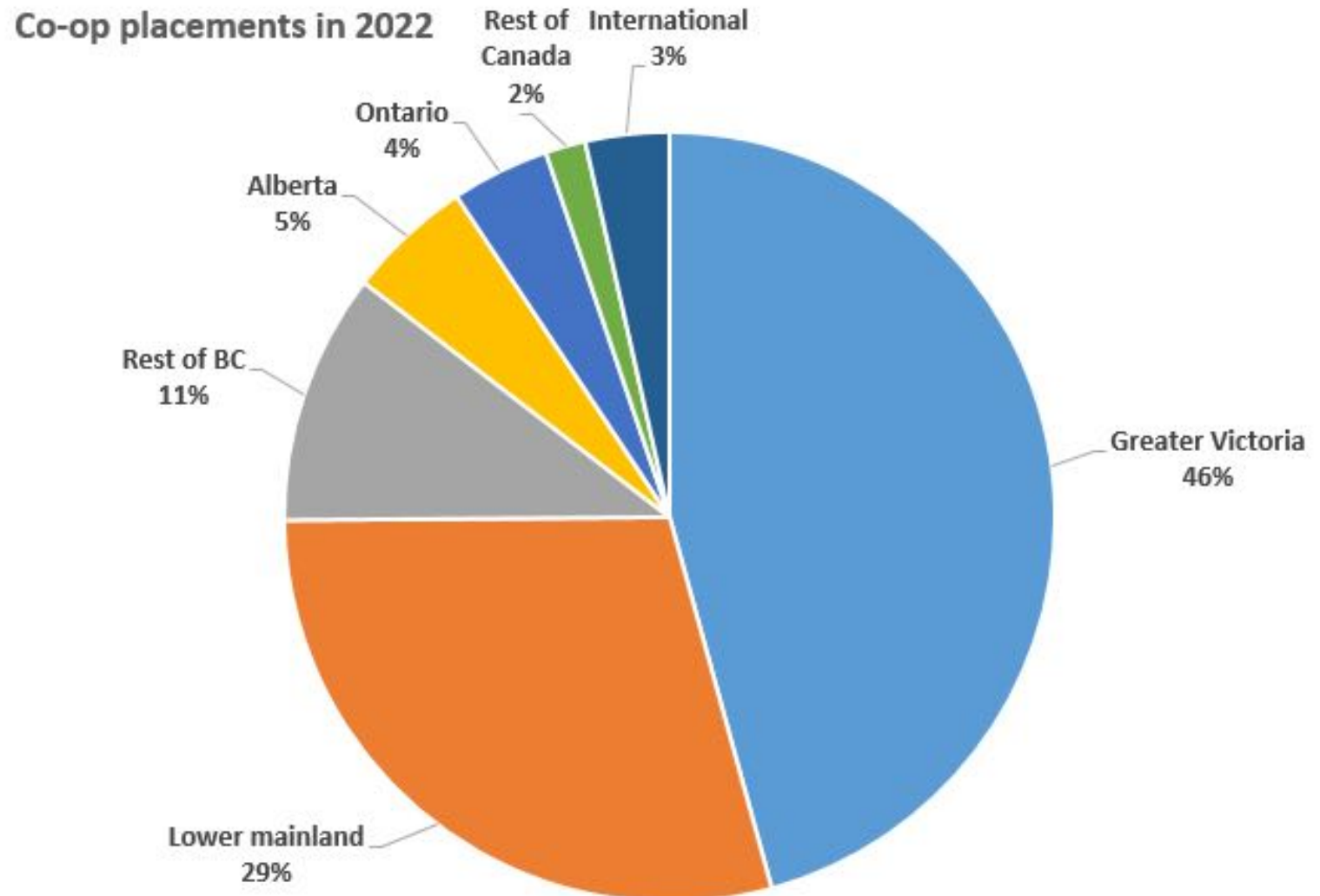
- **Apply to co-op** in your second year (applications accepted Sep and Jan)
- There are grade requirements. Search “UVic CSC co-op”
- Will complete **1-4 four-month work terms**

Engineering

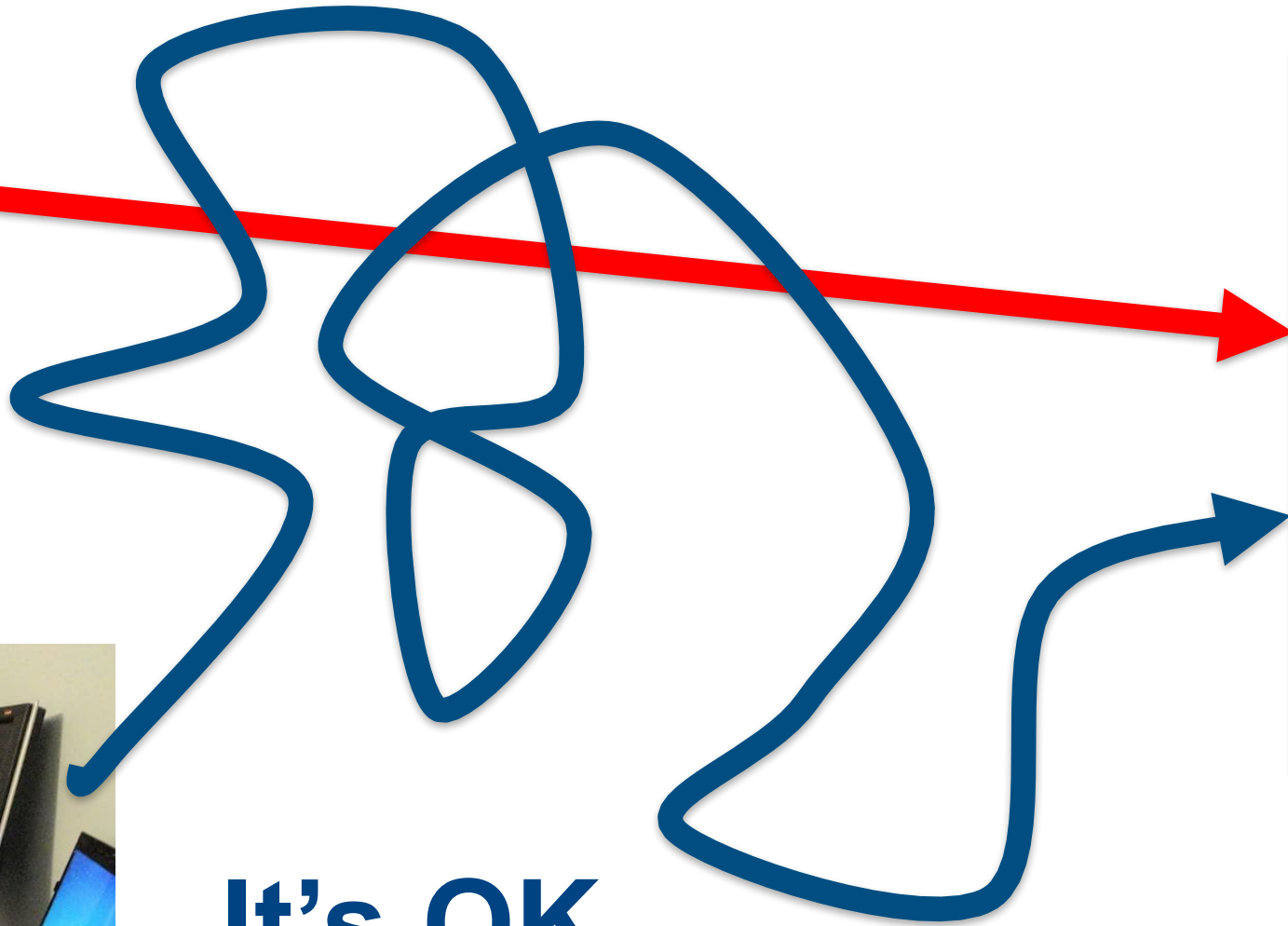
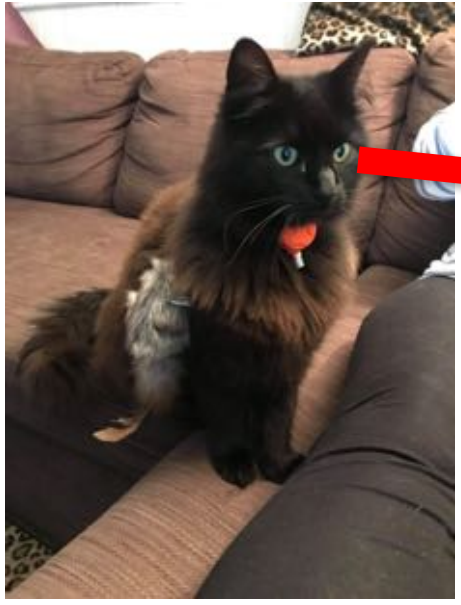
- **Automatically enrolled** in Co-op when admitted to engineering.
- Will complete **4 four-month work terms** as part of your B.Eng / B.SEng program

A few facts & figures from 2022 ...

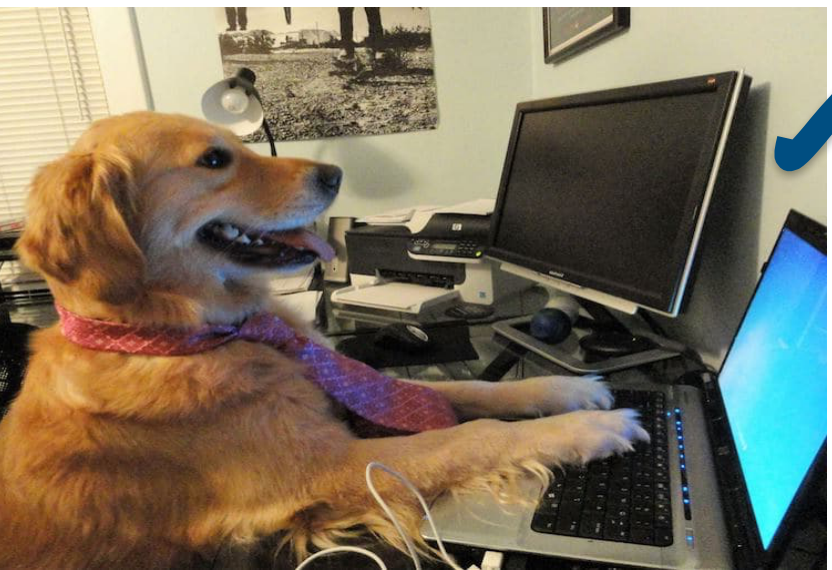
- 2190 ECS students on work terms
- 3691 co-op jobs posted in our co-op portal
- Avg salary: \$3700/month



Everyone takes a different path



A
fulfilling
career



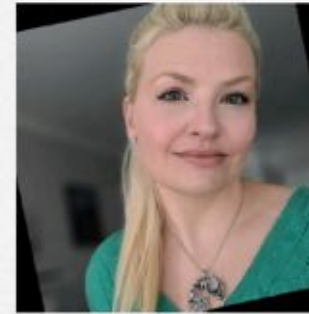
It's OK
We're here to help

We're here to help

MEET *the* COORDINATORS



Ash Senini
Biomedical Engineering /
Software Engineering
(student # ends in 0-4)



Kelly Stegman
Civil & Electrical Engineering
(student # ends in 0-3)



Leo Spalteholz
Civil Engineering
(student # ends in 4-9)



Monty Raisinghani
Computer Engineering /
Electrical Engineering
(student # ends in 4-9)



Calvin Tripp
Mechanical Engineering
(student # ends in 0-4)



Susan Fiddler
Mechanical Engineering
(student # ends in 5-9)



Wendy Beairsto
Graduate Studies &
Engineering Undeclared



David Woodward
Applied Data Science
(MADS)



Cheryl Beaumont
Co-op Coordinator -
Vancouver



Sheryl Thompson
Computer Science
(student # ends in 0-4)



Mostafa Rahimpour
Computer Science
(student # ends in 5-9)

Imen Bourguiba
Software Engineering
(student # ends in 5-9)

Master of Engineering in
Telecommunications and
Information Security (MTIS)

We're here to help

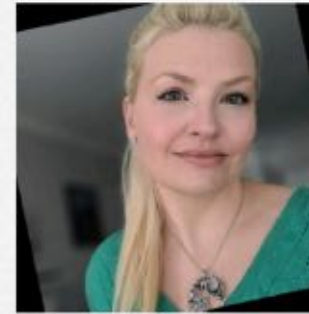
Also:

- Employer info sessions
- Career fairs
- Networking events
- Skills workshops
- Employer in residence
- Interview practice
- Etc, keep an eye out for the Co-op Events email

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Learning about solar energy with Charge Solar in Victoria

**Designing and testing electrical upgrades at
Teck Highland Valley Copper in Logan Lake, BC**



Testing a car racing simulator at VRX Simulators in Sidney



**Researching stream
crossing techniques for
the construction of
pipelines.**





**Working on a
wind turbine farm
in Tumbler Ridge, BC**

A computer science student at work



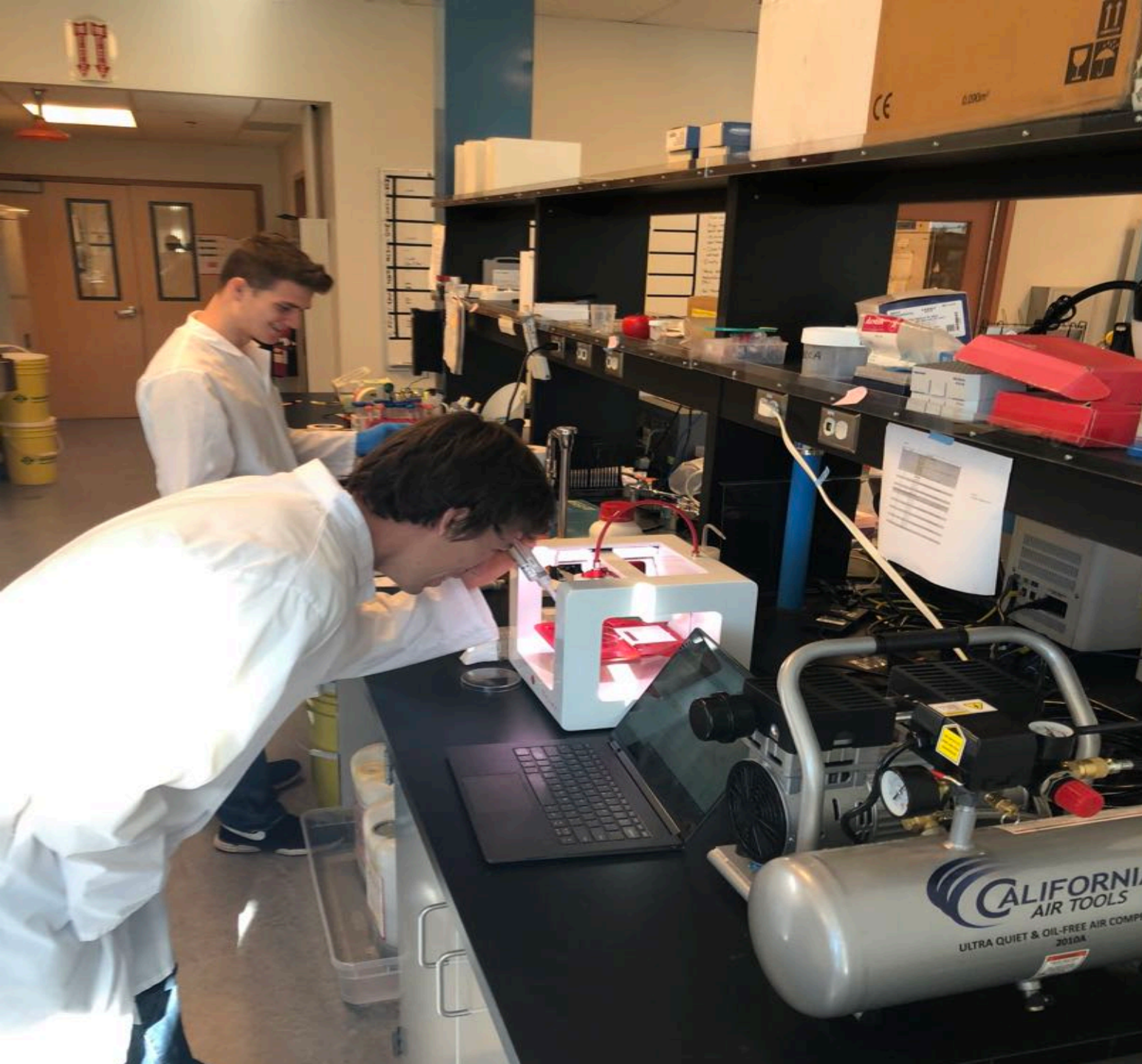


Designing, programming and testing radios for the RCMP in Ottawa

RCMP



Canada



Working in a research lab



**Surveying the
topography for site
construction at a
mountain top site
near Telegraph Cove
on Vancouver Island**



Jae Park
Computer Science



University
of Victoria



My Introduction

- Benjamin Croyle
- Graduated in Civil Engineering this Summer
- Starting my Masters this fall
- Undergrad: September 2018 to Summer 2023 w/ 5 co-ops and business minor



First Year Engineering



FIND FRIEND GROUPS THAT YOU CAN
STUDY WELL WITH



THE POWER OF TEAMWORK

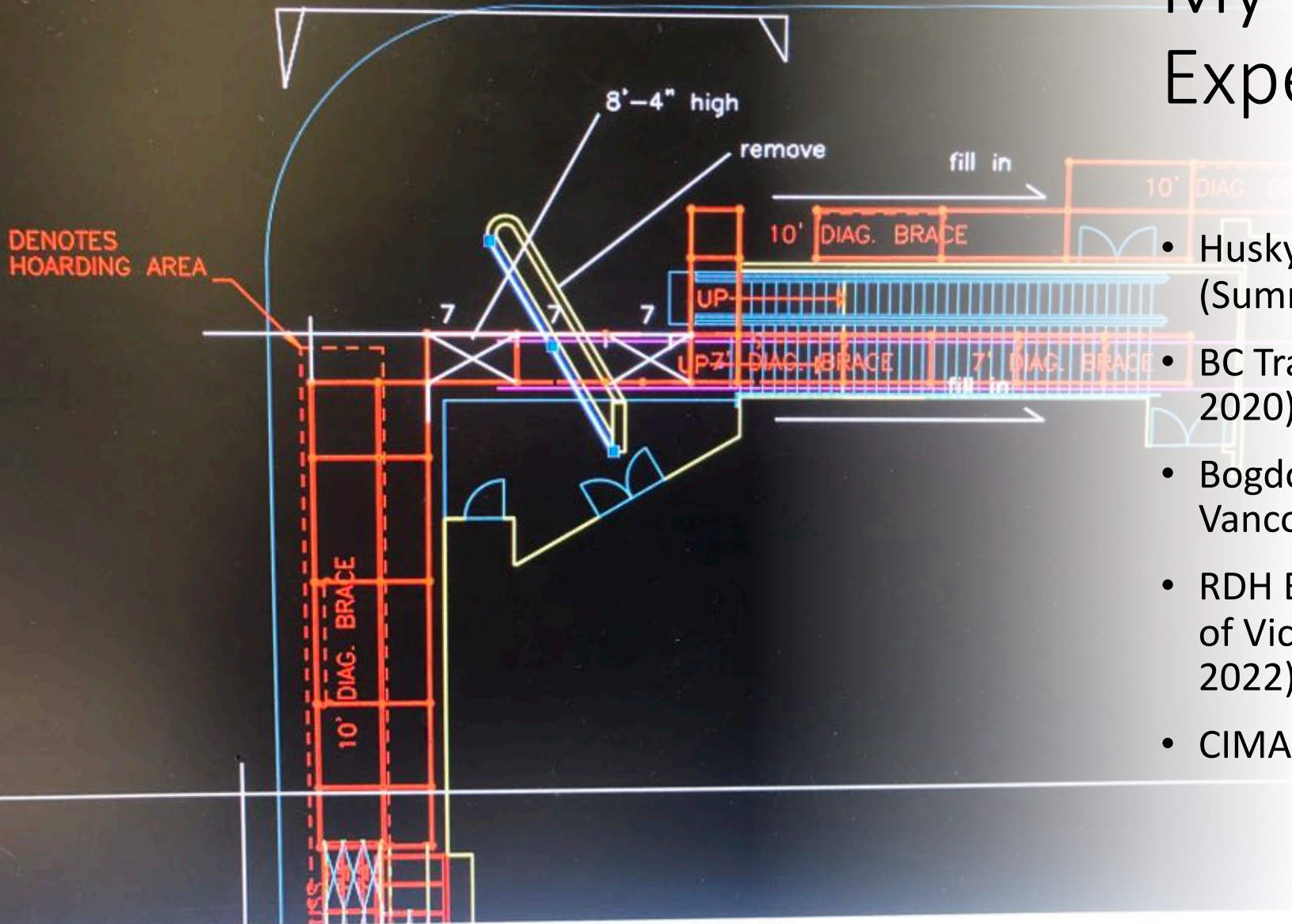


IMPORTANT SKILLS TO MASTER: TIME
MANAGEMENT, ORGANIZATION,
STRESS MANAGEMENT, SCHOOL-LIFE
BALANCE



FIRST FEW WEEKS OF EACH
SEMESTER, UP TO YOU TO
UNDERSTAND THE LAYOUT OF EACH
CLASS

My Co-op Experiences



- Husky Energy, Fort McMurray (Summer 2019)
- BC Transit, Victoria (Winter 2020)
- Bogdonov Pao Associates, Vancouver (Summer 2021)
- RDH Building Science/University of Victoria, Victoria (Summer 2022)
- CIMA+, Vancouver (Fall 2022)

Tips for Co-op

- Apply at places you want to work
- First couple co-ops will require a lot of applications
- Focus on what experience and skills you have, not what you are lacking
- Employers won't expect you to know everything





Jessica Vandenberg

Assistant Dean

Community and Culture



University
of Victoria



Giveaway Time !!

- How much study time is needed to be successful?
- What is the purpose of instructor office hours?
- Which 1st year calculus course should Engineering & Computer Science students take?
- What is the deadline to drop a course with 100% tuition refund?
- What is the final deadline to drop a course?
- What do Jae's and Ben's Tips for Success?"
- What do you do if something unexpected or unavoidable happens?
- Where are the faculty's Co-op offices?



Questions - Discussions

Welcome to our
community

