Welcome to the
Faculty of Engineering and Computer Science
We acknowledge and respect the lək̓ʷəŋən 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

- Mechanical Engineering
- Electrical & Computer Engineering
- Computer Science
- Civil Engineering

7 PROGRAM AREAS

- Mechanical Engineering
- Electrical Engineering
- Computer Engineering
- Computer Science
- Civil Engineering
- Biomedical Engineering
- Software Engineering
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 (>= 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
Open study space:
9:30am – 4:30pm Mon-Fri

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

Tutors available:
2:30pm – 6:30pm Mon-Fri
1:30pm – 5:30pm Sun
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
• 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.
Welcome to the Faculty of Engineering and Computer Science

LeAnne Golinsky and Irene Statham

New Student Welcome 2023
## Faculty of Engineering Degrees

<table>
<thead>
<tr>
<th>Degree</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc</td>
<td>Computer Science</td>
</tr>
<tr>
<td>BEng</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td></td>
<td>Computer Engineering</td>
</tr>
<tr>
<td></td>
<td>Civil Engineering</td>
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<tr>
<td></td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td></td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>BSEng</td>
<td>Software Engineering</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Resource</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math Assistance Centre</td>
<td>Blend of drop-in and collaborative sessions ELL 165</td>
</tr>
<tr>
<td>Centre for Academic Communication</td>
<td>Academic writing, critical reading, presentation and speaking skills – see the CAC website for details</td>
</tr>
<tr>
<td>Learning and Teaching Support and Innovation (LTSI)</td>
<td>All things learning and technology! – technical support with course platforms. See Student portal on LTSI website</td>
</tr>
<tr>
<td>Learning Strategies Program</td>
<td>UVIC Learn Anywhere, Learning Strategies program, meet with a Learning Strategist</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Meet with the instructor</td>
</tr>
<tr>
<td>Physics</td>
<td>Room 129 McPherson Library</td>
</tr>
<tr>
<td>PASS Program – Peer Advising</td>
<td>ECS 253 – drop-in/booked app., <a href="mailto:ecspass@uvic.ca">ecspass@uvic.ca</a></td>
</tr>
</tbody>
</table>
• 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....
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
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 2\textsuperscript{nd} year on our website in February
  • Minimum requirements – 2\textsuperscript{nd} year standing, C+ average and no grades less than C
  • Competitive averages may be required
  • ALL program requirements are considered
  • Declare by: April 30\textsuperscript{th}
  • Decisions by: May 31\textsuperscript{st}

• 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.
Admitted to the 2\textsuperscript{nd} year of your program?

• Consider your specialization or options

• Consult your advisor
# I want to drop a course

<table>
<thead>
<tr>
<th>Date</th>
<th>Drop Deadline</th>
<th>Tuition Refund Policy</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 19&lt;sup&gt;th&lt;/sup&gt;</td>
<td>100% drop deadline</td>
<td>100% of tuition back for course(s) dropped on or before this date</td>
</tr>
<tr>
<td>October 10&lt;sup&gt;th&lt;/sup&gt;</td>
<td>50% drop deadline</td>
<td>50% of tuition back for course(s) dropped on or before this date</td>
</tr>
<tr>
<td>October 31&lt;sup&gt;st&lt;/sup&gt;</td>
<td>Academic drop deadline</td>
<td>No tuition back, but won’t fail the course</td>
</tr>
</tbody>
</table>

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

Diagram:
- Faculty
- Co-op
- Your Co-op Experience
- Employer
- Student
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

It’s OK
We’re here to help
We’re here to help
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
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.
Working in a research lab
Surveying the topography for site construction at a mountain top site near Telegraph Cove on Vancouver Island
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 Vandenberghe
Assistant Dean
Community and Culture
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