

Welcome to the Faculty of Engineering and Computer Science

Mina Hoorfar
Dean



New Student Welcome 2022



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 2022



Faculty of Engineering and Computer Science

New Student Welcome 2022

LillAnne Jackson
Associate Dean, Undergraduate



Faculty's Degrees:

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



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

We are an international community !

We come from all over the world ...

- many accents.
- proficient English-communication.
- If you don't understand . . .
ask for clarification.



Engineering & Computer Science:

A safe, Welcoming Community

- respect others' perspectives
- refrain from:
 - discriminatory behaviour, speech
- talk about uncomfortable situations
- concerns? reach out

Inclusion of all - open exchange of ideas

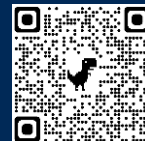
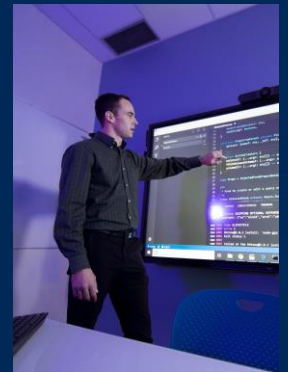


UVIC

Professional Faculty

Code of Ethics:

- Engineers & Geoscientists of BC (EGBC)
 - <https://www.egbc.ca/Complaints-Discipline/Code-of-Ethics/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



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

Slide Credit: A. Hadwyn

What do professors expect?

Engagement - be there and do the work

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

Break tasks down and prioritize

Read syllabus: pay attention to instructor

Break tasks down and prioritize

Take advantage of instructor

Research says:
Attendance is
vital for
success

I heard they
don't take
attendance at
University. . .
Do I have to go
to classes?

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 (and say “no”!)
- communicate with important people

Welcome!

- To Engineering & Computer Science !!



SUCCESSING IN UNIVERSITY: Tips and tricks

Madeline tennier

The first week of classes

- Get a calendar
- Read over your syllabus
- Talk to people - join a club

Term Schedule

Coursework	Weight	Date
Assignments (5 - 10)	20%	Assigned once every 1 to 2 weeks
Midterm Examination 1	15%	February 10, 2022
Midterm Examination 2	15%	March 24, 2022
Final Exam	50%	To be scheduled by the University

During the school year



- Study
- Ask your professors questions
- Take care of yourself

Labs and tutorials

- Work with your classmates if allowed
- Ask the TA questions
- Complete the work, make it look neat



Assignments and quizzes

COMPUTER SCIENCE 333A, SPRING 2022
ASSIGNMENT #5

DECEMBER 15, 2022 (11:30 p.m. PST)

This is a really large class and the logistics of grading assignments are challenging. We and the markers expect your help in making this process as smooth as possible. Please ensure that your assignments conform to the following requirements – any violation will result in getting a zero for the particular assignment.

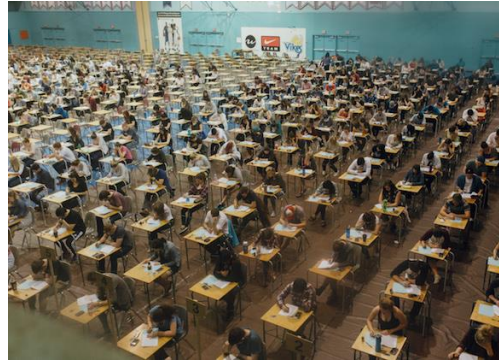
- All assignments should be submitted electronically through the Brightspace course website and should be **SINGLE PDF FILE** with all the material you turn in for any function (in or out). No other formats will be accepted. Handwritten answers are ok but they will need to be scanned and merged into a single pdf file together with any code examples and annotated photos.
- If you are submitting photos of hand-written work I would recommend not using pencil. It is hard to read pencil in photos and if the marker can't read it then we can't give you a grade for it.
- The assignment number, student name and student number should be clearly visible on the top of every page of your assignment submission.
- **PLEASE DO NOT COPY THE ASSIGNMENT DESCRIPTION IN YOUR SUBMISSION**
- The answers to the questions should be in the same order as in the assignment specification.
- Some of the questions of the assignments are recycled from previous years but typically with small changes in either the description or the numbers. Any submissions that contain numbers from previous years in any question will be immediately graded with zero.
- Any general assignment related questions can be posted in the Discussion Forum in Brightspace for the assignment.
- Any specific assignment related questions (details about your solution) should be e-mailed (if it turns out to be an outlier) or posted here of the form CS333A_Assignment_X, where X is the number of the corresponding assignment.
- You may use Python 3 or MATLAB to solve the questions on MATLAB. In that case replace `MATLAB` or `in file 603` by `file`. Again, I recommend the Spyder IDE for this.

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- Start assignments early
- Do your quizzes once you've learnt the material
- Ask your prof or TA questions
- Do your best and check feedback

Taking a midterm

- Study but not all nighters
- Pace yourself
- Look at feedback – ask questions



Struggling?

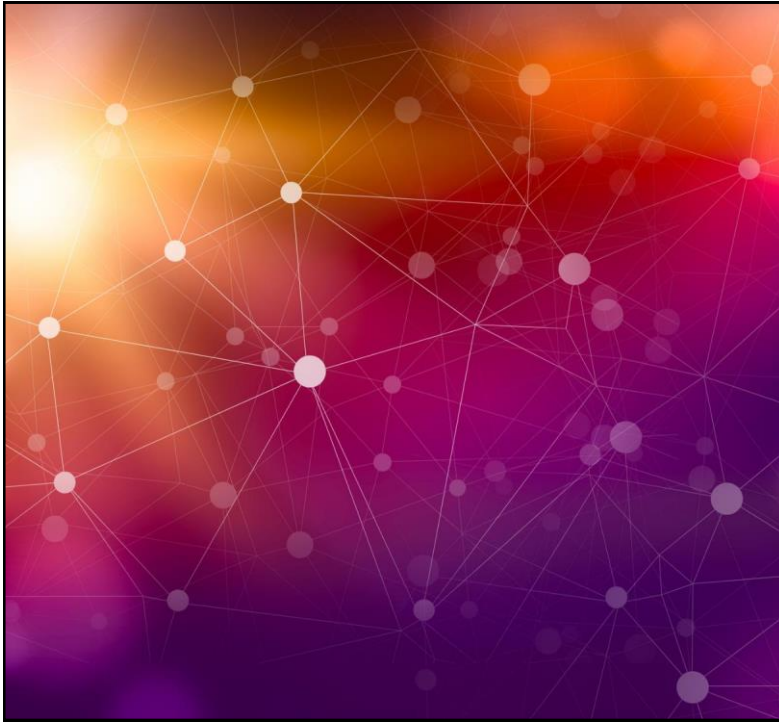


- Explain circumstances to your prof
- Create a priority list
- Take advantage of the resources UVIC offers

Final notes

- Study
- Keep track of your work
- Ask questions and ask for help
- Take care of yourself

Thank you



Engineering: My student perspective

Victoria Hartman, 4.5th year BME



About me

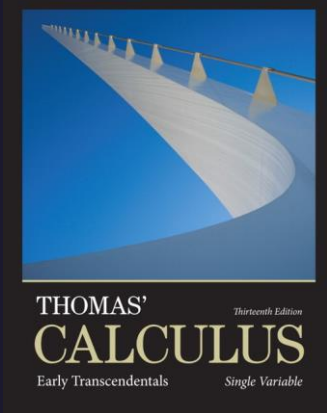
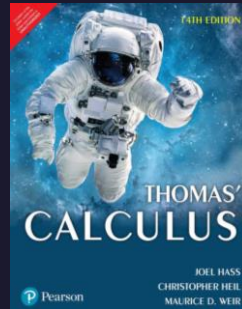
- switched faculties from bio/psych
- 4 co-ops in Victoria, Vancouver, Japan
- exec in Biomedical Engineering Design club
- tour guide, PASS peer advisor, and OL
- ESS volunteer



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Lesson #1: Take naps

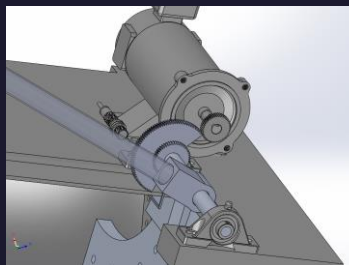
- naps good, all-nighters bad
- start work on assignments when they're assigned
- make time for relaxing



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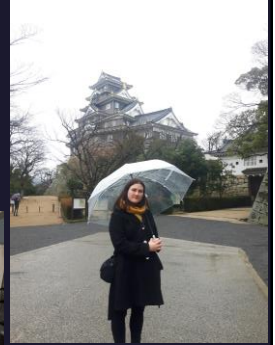
Lesson #2: Get used to group projects

- you will do them from 1st year to capstone
- delegate, communicate
- do more than 'your share'



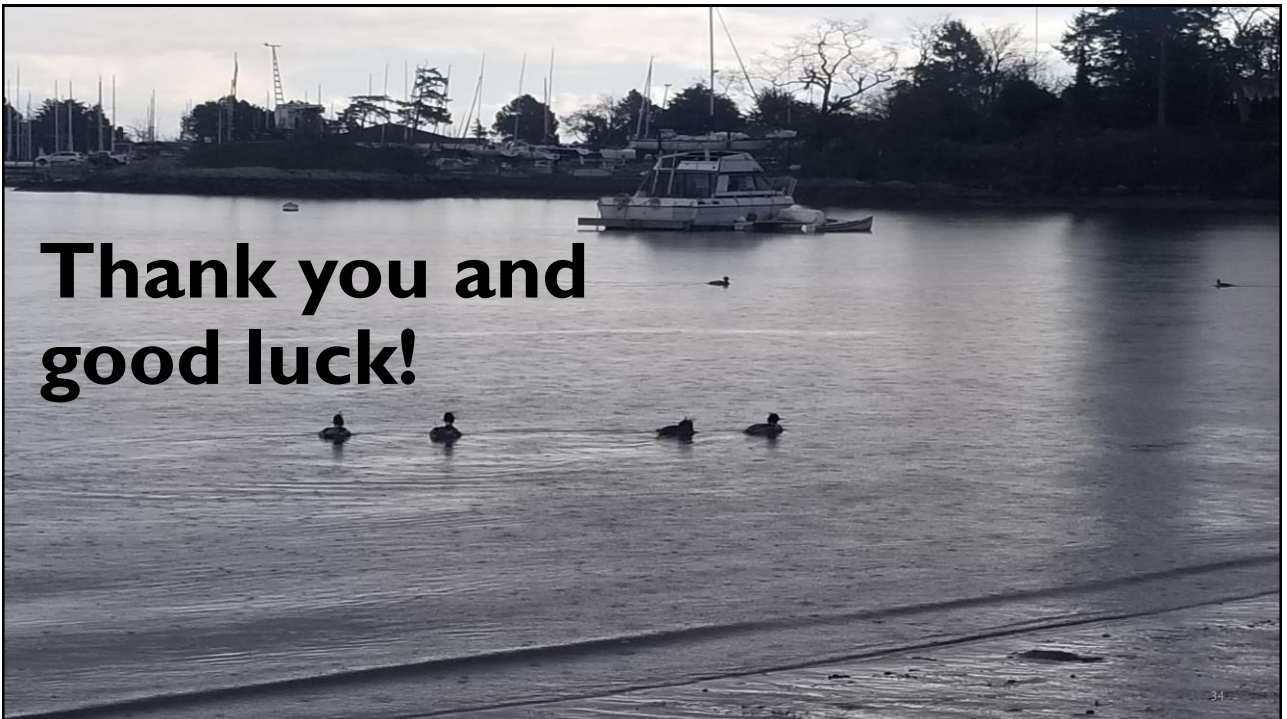
Lesson #3: What's the point of co-op?

- networking – ask profs and classmates
- be flexible
- even a bad co-op can be educational



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**Thank you and
good luck!**



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Icebreaker

Turn to the person next to you:

- Share your name and where you're from
- Discuss what you've enjoyed about the day so far
- What are looking forward to in the coming weeks?

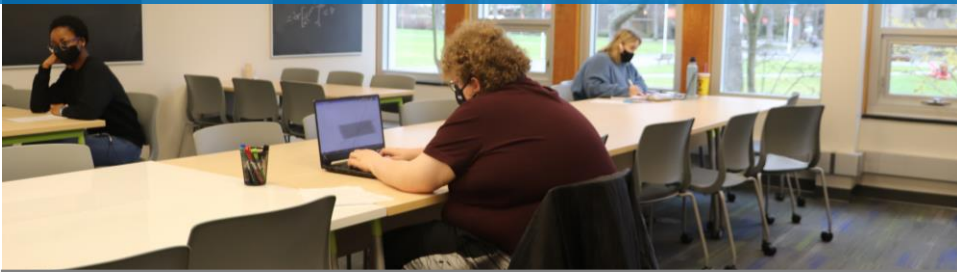


MATH HELP

Math & Stats Assistance Centre
First Year Math at UVic



Elliot 165 (Betty & Gilbert Kennedy MSAC)



Library 129 (Learning Commons)



Elliot 165 (Betty & Gilbert Kennedy MSAC)

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

Study Space: 9:30am – 4:30pm Mon-Fri

Starts Sept 12th!

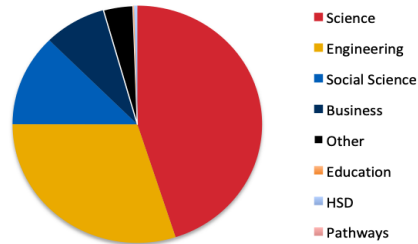
Library 129 (Learning Commons)

Tutors available: 2:30pm – 6:30pm Mon-Fri

Starts Sept 12th!



Who uses the Math & Stats Assistance Centre?



First year math:

59%

Second year math:

18%

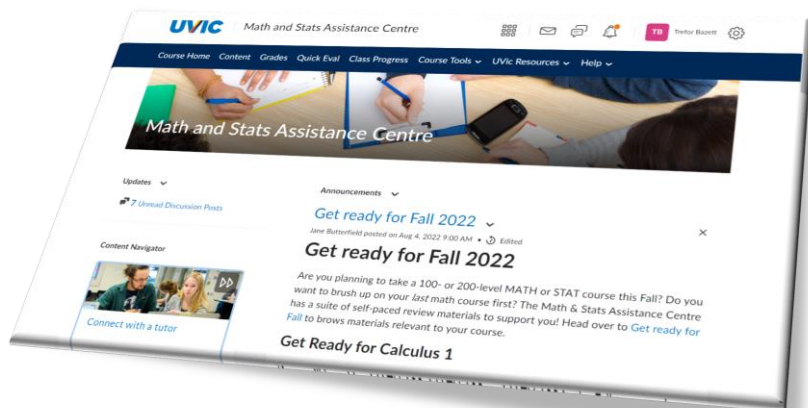
Statistics:

21%

UVIC.CA/MSAC

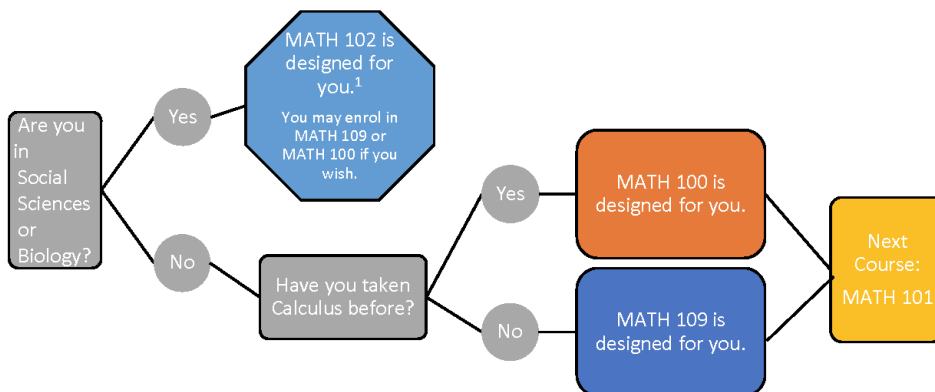


UVIC.CA/MSAC



FIRST YEAR MATH AT UVIC

Three different first-semester calculus courses:
MATH 100, MATH 102, MATH 109



WHAT DO YOU KNOW ABOUT L'HOSPITAL'S RULE?

A: I don't know much about hospitals...

B: It's the best rule ever and you should use it for all limits all the time.

C: It was *not* proven by the Marquis de l'Hospital.

GETTING MATH HELP!

1. Instructor Office Hours
2. Tutorials and Labs!
3. Math & Stats Assistance Centre
4. Student Groups:
 - **S**tudent in **U**ndergraduate **M**ath & **S**ats
 - **A**ssociation for **W**omen in **M**athematics



Welcome to the Faculty of Engineering and Computer Science

LeAnne Golinsky

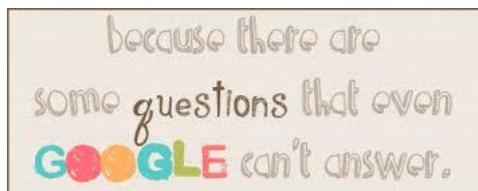


New Student Welcome 2022



WHAT IS ADVISING?

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



WHO ARE THE ADVISORS?

- **1st Year Advisors:**

- Engineering: **LeAnne** engradav@uvic.ca
- Computer Science: **Irene** cscadvisor@uvic.ca

- **Advising Drop in:**

- Computer Science: ECS 504
- Engineering: EOW 206

- **Advising: BrightSpace – Available to you now**

Drop in and booked appointments available



Resources for Success

Computer Science Assistance Centre	ECS 251
Math Assistance Centre	Blend of in-person and on-line tutoring – see Math dept website for details
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	Physics Aid Service - support with conceptual understanding, questions with homework assignments, prep for midterms and finals – See Physics dept website for details.

1ST YEAR SCHEDULE POSSIBILITIES

- Do 1st year over 3 terms
- 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....



Planning Your Program

Degree requirements are outlined:

- In the Calendar – of course!
- On *Program Planning Worksheets*

Do your research ahead of time.
Come prepared with your questions.

Our advisors can help you understand these requirements –
YOU have to read them!



Grades at UVIC

Grade	Grade Point	Percent	Description
A+	9	90 – 100	Exceptional
A	8	85 – 89	Outstanding
A-	7	80 – 84	Excellent
B+	6	77 – 79	Good Comprehension
B	5	73 – 76	(B range - reasonable command of skills)
B-	4	70 – 72	
C+	3	65 – 69	Adequate Comprehension
C	2	60 – 64	(C range – basic skills)
D	1	50 – 59	Marginal
F	0	0 – 49	Unsatisfactory
N	0	0 – 49	Did not complete course requirements

UVIC's GPA:

- Weighted average of grade points

↑ Good

↓ Probation



Your GPA matters

- 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

Acknowledge early warning signs.

Come talk to us. We can help!



Program Declarations

Engineering

- Starting in February – submit program choices
- 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

Program Declarations

Computer Science

- After successful completion of CSC 115 (or 116) and Math 122
- Submit form to program advisor
- Want to join Co-op? You have to apply, see your program advisor.
- Graduation requirement: All required CSC, MATH, SENG, STAT and English courses must have minimum grades of C

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 20 th	100% drop deadline	100% of tuition refund
October 11 th	50% drop deadline	50% of tuition refund
October 31 st	Academic drop deadline	No tuition back, but no fail



Results of assignments, labs, midterm unsatisfactory?

Use feedback to make the right decisions for you!

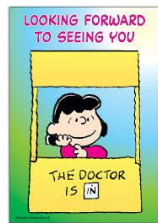
What can I do if...

...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



- *Advising* is on your **Brightspace dashboard**; please contact your advisor if this is not the case!
- Contains program planning information, appointment booking information, forms and more.



Faculty of Engineering and Computer Science

Co-op and Career

Leo Spalteholz

