

SE101: 2018-09-13

How Things Work

How UW Works, 2017–18

Income:

- \$425M tuition
- \$232M grants
- \$716M total

Expenses:

- \$511M salaries (thanks!)
- \$53M student support

Province funds universities
(which are nonprofit).

Grants have dropped since 1995.
Tuition has gone up.

How SE Works: $SE = CS + ECE$

- Computer Science
- Math Faculty
- Largest CS Dept in Canada + largest faculty
- Elec & Comp. Engineering
- Engineering Faculty
- Largest ECE Dept in Canada + largest faculty

Every prof works for either CS or ECE.
SE is a collaboration.

Facts about SE

Small vs CS, ECE:

- Class of 2023: 125 students
- on-stream: 351 students
- off-stream: 217 students

ECE 1A = 372; CS 1A = 185*

* many CS students join later

SE Graduation Rates

Typical class size at graduation: 80-100.

- class of 2018 = 144

Total BSE degrees granted = 1123.

Graduation rates:

- BSE 65-81%
- BSE/BCS 71-85%
- B.any 75-85%

How Term Promotion Works

SE follows Engineering rules:

- need term average $\geq 59.5\%$
- to pass a course, need mark $\geq 50\%$

Failure rates (must repeat a term):

- first year 7-14%,
- second year 5-7%
- upper years ~ 0

About 25% of graduating students have failed a course.

How SE Students Work Post-Grad

Class of 2018:

- 88% full-time tech, 4% full-time non-tech, 3% grad school
- 4% Waterloo, 11% Ontario ex-KW, 3% Canada ex-Ontario
- 80% USA
- Starting base salary: US = C\$150k, Canada = C\$94k

Other SE18 Thoughts

On-campus SE program met my expectations:

$D = 3, d = 6, n = 9, a = 56, A = 22$

Co-op SE program met my expectations:

$D = 0, d = 1, n = 2, a = 12, A = 81$

Would recommend my program to prospective students:

$D = 1, d = 2, n = 8, a = 35, A = 50$

Plan to work towards PEng?

yes 16%, no 84%

How Bodies Work

1. Sleep
2. Eat
3. Exercise

How Etiquette Works



Shower regularly!

How Etiquette Works

Wait till previous class is mostly out
before you try to enter the classroom!

How Etiquette Works



Phones on silent!

Rottweiler/phone encounter
image by Gus Alexandropoulos

How Etiquette Works



Walk right, stand left?

... just don't stand
in the middle of hallways!

image CC-BY 2.0 John Pasden via flickr

How Emails Work

From: you@edu.uwaterloo.ca

Subject: [ECE 105] Squirrel mechanics question

Dear Prof. X,

I am a student in the SE section of your ECE 105 class. I would like to make an appointment to ask questions about squirrel mechanics. I am available on Wednesdays at 11:30 and Mondays at 2:30; if either of those times do not work for you, you can find my schedule here:

https://uwaterloo.ca/software-engineering/sites/ca.software-engineering/files/uploads/files/1aschedule_0.pdf

Thank you,

Y (ID xxx)

How Titles Work

Safe default = Prof. X.

Many instructors have PhDs,
so Dr. X usually OK.

Not OK: Mr. X, Mrs. X.

(You can call me Patrick.)

How Office Hours Work

Office Hours = time specifically set aside
for student questions.

Pro tip: Use them!

How Asking for Help Works

Resources for you:

- instructors
- TAs
- program administration (me, Derek, Shaz)
- Student Success Office
- AccessAbility

How Not Plagiarizing Works

You can look,
but don't write anything while looking.

How Universities Work: Who's Who

- Students
 - Undergraduate (you)
 - Graduate (MAsc/MMath, PhD)
- Teaching Assistants (TAs)
- Professors
- Medical Staff
 - Doctors
 - Counsellors
- Admin Staff
 - Registrar, etc
- Plant Operations Staff
 - Keep the lights on.

What do Professors do?

- Teaching
 - Undergraduate
 - Graduate
- External Service
 - Peer review articles
 - Organize conferences
- Internal Service
 - SE Director
 - SE Associate Director
- Research
 - With grad students

SE Society (SE Soc)

Organizes events for SE students:

- student-led résumé critiques
- mixers (today! 6-9! E5-3101!)
- “What I wish I knew in 1B”

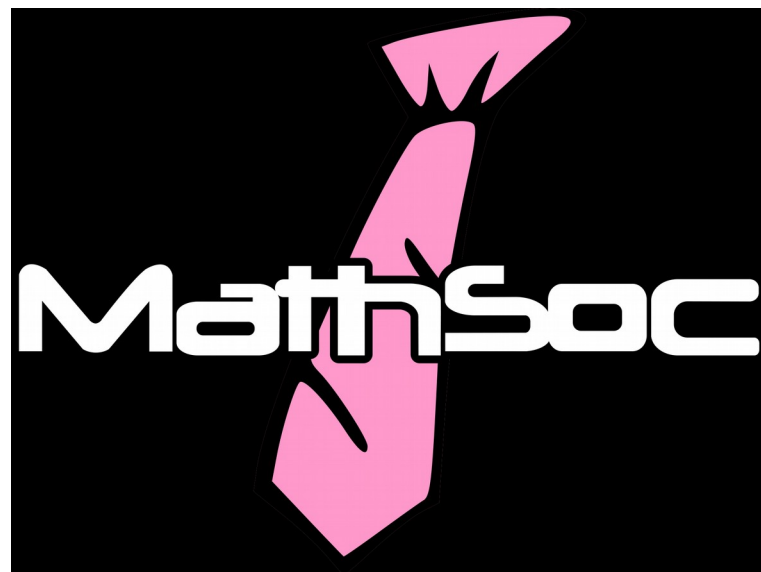
Helps with class swag orders;

Develops SE student life in general.



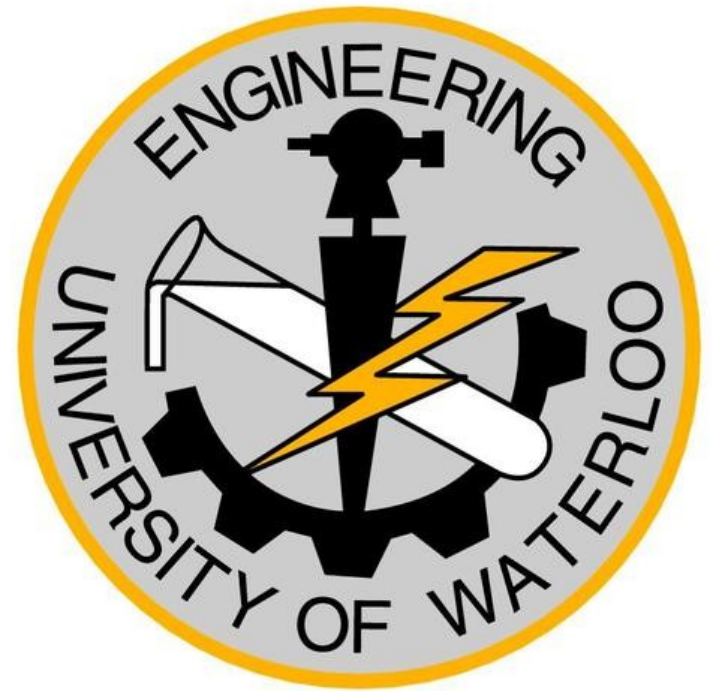
Math Student Society (MathSoc)

- Social events
- Board game rentals
- T-shirts etc.
- C&D (Coffee & Donut shop)
- Lounge (Comfy)
- Exam Bank
- Endowment Fund (MEF)



Engineering Society (EngSoc)

- Social events
- Board game rentals
- T-shirts etc.
- C&D (Coffee & Donut shop)
- Lounge (POETS)
- Exam Bank
- Endowment Fund (WEEF)



Feds

- UW Federation of Students
- Social events
- Intramural sports
- Clubs (> 200)
- Orientation week
- Student representation to
 - UW Administration
 - Government

