

U OF T ENGINEERING SOCIETY PRESENTS:



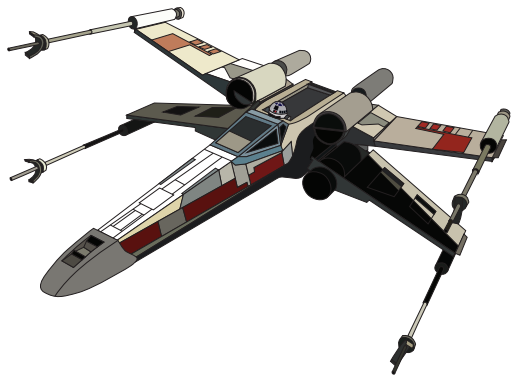
# SKULE<sup>TM</sup> WARS

EPISODE 1T5: REVENGE OF THE F!ROSH

F!ROSH HANDBOOK 1T5

# DISCLAIMER

The opinions and views expressed in this handbook do not necessarily reflect those of the University of Toronto, the Faculty of Applied Science and Engineering and the University of Toronto Engineering Society. Please don't sue us. The editor trusts that the contents of this Flrosh Handbook will not be deemed inappropriate or offensive to any person or group of persons. However, any reader wishing to file a complaint in regards to the contents of this publication is welcome to do so, and should address any correspondence to the Office of the President, 12 Hart House Circle, Toronto, Ontario, M5S 1A2.



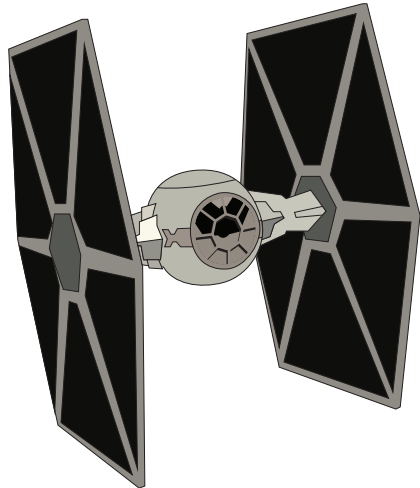
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## ENGINEERING CODE OF ETHICS

We, the students of the Faculty of Applied Science and Engineering, by virtue of the privilege of being here, represent Skule™ to the larger society. We have, therefore, a special duty to exemplify the best qualities of the Faculty and to observe the highest standards of personal and professional conduct. In so doing, we promote ourselves and the merits of the University, the Faculty, and the Engineering Society.

In our words and actions:

- We embody the respect for truth, integrity, fairness, free inquiry, and the opinions of others.
- We respect all individuals without regard to race, colour, sex, creed, sexual orientation, ethnic or national identity, disability or age.
- We follow the letter and spirit of laws and regulations included in the Canadian Charter of Rights and Freedoms, and the Ontario Human Rights Code.
- We observe these standards and actively encourage our colleagues to join us in supporting the highest standards of conduct.



# EDITURD'S MESSAGE

Hello there F!rosh!

In a galaxy far, far away... (well, more like no more-than-a-day-on-a-plane away, just go with it) there is a place named Skule™. It is a place where you will be challenged in all aspects of life, from academics to cooking an edible meal. Regardless, you will have one hell of an adventure.

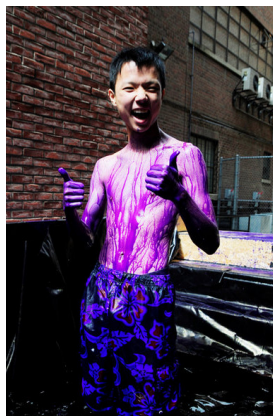
Sure, you ultimately came here for the \$40 000 piece of paper, but there's more to that. During your years here, you will have numerous opportunities to get involved in the Skule™ community. If you already have a passion for something or just want to try something new, university is the perfect opportunity to do so. Besides, everyone says this is the time when you get to really learn about yourself.

This handbook is meant to give you a sneak peek in what Skule™ has to offer and what you should expect for the next year. It will probably come in handy later as a reference, door stop, paper weight, weapon or combinations of the aforementioned.

Anyways, have a great F!rosh Week and may the F!rosh be with you.

**Chunkei Tang**

**Handbook Editor-in-Chief 1T1-1T2**



## STAFF

Luke Skywalker needed a sidekick to help defeat the Empire and it's no different for a handbook editor either! If it weren't for all the people who worked behind-the-scenes, this book could not have happened! You are all awesome and I cannot thank you all enough for all your hard work and dedication.

To my coeditors, if body hair was a measure of awesomeness, you'd all be Chewbacca. (Wut?) Thanks for spending so much time on this. You have most definitely saved my ass.



**Candice Chan**



**Anjelica Kierans**



**Scott Orr**



**Catherine Solis**

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EPISODE IV

# ORIENTATION

# CO-CHAIRS' MESSAGE



Welcome Frosh 1T5! It is a privilege for us, the Orientation Team, to be one of the first to welcome you to Skule™, here at the University of Toronto - one of the best engineering schools in Canada, and one the most tight-knit and spirited faculties on campus. We can't wait for you to become part of our community! The next four (or five) years of your life here will be filled with fun, laughter, excitement, learning, challenges, and most of all, life-long friendships. F!rosh Week 1T1 will be the first chance for you to be part of, and experience this amazing journey, as you will meet not only your fellow classmates but tons of upper year

'Leedurs' who are eager to show you what Skule™ has to offer. Not only will you learn about the strong academic side of the faculty, but the tremendous spirit and unique traditions that have been embodied by our faculty for over a hundred and twenty five years. We hope you will be a part of it!

When Orientation Week comes along, we encourage you to step outside of your comfort zones, to get out there and enjoy the week to its fullest. Take full advantage of the many events that our Leedurs have worked hard to plan for you, ask tough questions and figure out what Skule™ has to offer you in both academics and extra-curriculars, and also, how you can contribute to this amazing community. The Skule™ community is extremely diverse and multi-talented, so there is definitely something here for everyone!

Once again, welcome to Skule™, Class of 1T5!

F!roshly,

Michelle Chen & Abhishek Mathur  
Orientation Co-Chairs 1T1

## Orientation Week Checklist

Some things to REMEMBER for F!rosh Week:

What to bring:

- Pre-order receipts for F!rosh kit orders or money to buy F!rosh Kit
- T-Card, health card
- Skule™ spirit!

What to wear:

- Weather-appropriate clothing (rain or shine!)
- Comfortable walking shoes, sunscreen

What your F!rosh Kit includes:

- Your first hardhat!
- A laundry bag
- Two orientation T-shirts
- Flip-flops
- FREE ticket to Skule™ Nite
- FREE ticket to F!rosh Nite
- pens, coupons, trinkets, and lots of other SWAG !

What **NOT** to bring:

- Expensive electronics (It'll get purple/wet/dirty)
- Anything valuable (SIN card, passport, etc.)
- Your parents!

What **NOT** to wear:

- Expensive clothing (Save it for F!rosh Nite!)
- Excessive clothing (You'll be carrying it around)

# F!ROSH WEEK SCHEDULE

Together, Jedi organizers have channelled The Force to prepare a week full of fun activities to celebrate the commitment new fledgling F!rosh have made to the light side. Come partake in the events initiating your journey at Skule™ while expecting the unexpected.

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>8 a.m.</b>	Arrival				
<b>9 a.m.</b>		Secondary Education Evaluation	Pancake Breakfast + Fun With Faculty		
<b>10 a.m.</b>	Matriculation				
<b>11 a.m.</b>		Engineering Clubs Fair			Classes
<b>NOON</b>	Campus Tour + BBQ + Dye Station	Discipline Club Activities + Lunch	Department Introduction + Lunch	Classes	
<b>1 p.m.</b>					
<b>2 p.m.</b>	F!rosh Picture	F!rosh Olympics	Charity Buskerfest		
<b>3 p.m.</b>					Classes
<b>4 p.m.</b>	Downtown Walkaround	Skule Nite All-Star Improv Challenge	Casey St Jones Hypnosis Show	Blue and Gold Bed Races	UTSU Parade
<b>5 p.m.</b>					
<b>6 p.m.</b>	Dinner	Dinner			UTSU Concert
<b>7 p.m.</b>	Tutorial		D-Battle Suds!		
<b>8 - ∞</b>	Blue and Gold Movie Night	Havenger Scunt	F!rosh Nite	Suds!	Glow in the Dark Capture the Flag
<b>Saturday - Sunday:</b> Hart House Farm					

## Legend

- F!rosh Week
- Suds!
- Faculty Events
- UTSU Events

# F!ROSH WEEK EVENTS

**Matriculation:** To be well equipped for the epic week ahead, you must first purchase your F!rosh kit. After this is done, you will join with your F!rosh group to be introduced to leaders of student life at Skule™ and ,to take a sacred oath with your hardhat.

**Campus Tour:** This is when leedurs will help guide you through your new “home”. Before the tour begins, you will be offered the honourable opportunity of taking the purple plunge and wearing engineering pride on your very skin. As you walk through campus, do not be alarmed by the smell of blood, sweat, and tears. Instead, keep your eyes peeled for dark side-loving arts-ci's, who will stop at nothing to obtain your beloved hardhats. Arriving at Front Campus, a picture of the entire F!rosh class is taken. The shape you formed on the field will be revealed to you after F!rosh Week.



**Downtown Walkaround:** Tired of walking? Well you're not done yet! This is your chance to pick up those feet and explore the wondrous city of Toronto in which our humble Skule™ resides. Navigate through the core of downtown and feel the exhilaration of screaming Skule™ chants at the top of your lungs, storming malls, stopping traffic, and causing a ruckus near City Hall – for an afternoon, the city is

yours. This is a signature event of F!rosh Week and one you won't want to miss!

**Tutorial:** Two months of summer can (surprisingly!) erase a lot from your memory. Attend a tutorial to brush up your high school knowledge before tomorrow morning's Secondary Education Evaluation!

**Blue and Gold Movie Night:** After a long, fruitful day of running rampant around campus and Toronto, it's time to let the silver screen take over the action. It's understandable that you may feel exhausted, so sit back, relax, and enjoy a nice movie with fellow fledglings and leedurs.

**Secondary Education Evaluation:** You were recruited as F!rosh because you are the best. Now, you must prove it. Prove that the pen(cil) is truly mightier than the light-saber. You will be thoroughly tested on your knowledge of english, math, physics, and chemistry. This test will not affect your academic standing; however it will help assess the strength of your educational background and provides an idea of academic expectations. It is highly recommended that you attend the test, as well as the prep tutorial the day before.

**Engineering Clubs Fair:** Worried that becoming an engineer means all work no play? Not here at Skule™! With 70+ clubs run by engineering students, there is no excuse to not do what you love, whether it's photography, sports, cultural groups or more. What's even better is that our clubs accommodate the rigorous engineering course load, meaning these clubs are made for you, you silly engineer. Come out and see what Skule™ has to offer you!

**Discipline Club Activities:** Discipline Clubs (student councils for your discipline) are a quick way to get to know upper years in your program. Come out to this event and enjoy an opportunity to play some games, discuss your favourite Star Wars character, and get some one-on-one tips and hints that will increase your chances of surviving the First-Year Battle.

**F!rosh Olympics:** Show that you are strong not only in the mind, but also in the body. F!rosh groups will compete to demonstrate their superior intelligence, agility, and strength. The power is in your hands (and feet).



# F!ROSH WEEK EVENTS

**Skule Nite All-Star Improv Challenge:** You've been training for years, you've been honing your craft and you've been chasing the glory. Now is your chance to compete in a battle of improv wits and comedic talents against past Skule Nite (read: best show ever) cast members! If you enjoy tickling funny bones, acting crazy and being challenged mentally, you will love this event! Get your improv game face on!

**Havenger Scunt:** Similar to a scavenger hunt, you will get together with other fledglings and form clans (or groups). Your speed and synchronization skills are key factors in determining your clan's victory. Of course, there are prizes.

**Pancake Breakfast & Fun with Faculty:** Think all Professors do is think about engineering? Definitely not! Enjoy some time meeting Professors and other staff members in a variety of events! You could even challenge them to video game tournaments!

**Department Introduction:** Want to find out more about your department? Want to know what some of your Professors are researching? Want to know why your department is the best? Come out to the Department Introduction where the Chair of the department will greet you! While you're at it, make sure you attack their yummy food!



**Charity Buskerfest:** Both fun and for a good cause, this event will challenge the creativity of your genetically-enhanced minds to raise money for charity. Play an instrument, tape yourself to a traffic light, reenact a scene from "Star Wars episode III - Revenge of the Sith"; do whatever it takes to get the money (legally, of course).

**Casey St Jones Hypnosis Show:** An absolutely unreal event! It's mind-blasting, exciting, amusing and hilarious! One show

you cannot miss!

**D-Battle:** Wanna see people break dance? Can you break dance? Would you like to watch/participate? Come out to SUDS to watch the first ever Dance Battle during F!rosh Week! You will find slick moves, some poppin' and some lockin' from all participants!

**F!rosh Nite:** Time for you to boogie on down to the nightclub. Go ahead, show off your moon walk and unleash your repertoire of gravity defying dance moves. The more the merrier! And so, you will be joined by F!rosh from universities and colleges all over Toronto. Set aside any feuds, for on this night your only challenger is the dance floor.

**Blue and Gold Bed Races:** Here you will show off your spacecraft piloting skills to the other fledglings in a dangerous high-velocity intergalactic race! However, due to safety regulations, you will race by dragging a bed around front campus instead.



**UTSU Parade/Concert/Afterparty:** Roll around campus with the rest of U of T to create unity withing the University! Come out to back campus to enjoy a free concert hosted by your University of Toronto Students' Union! Word on the street: there will be a big artist coming to U of T this year! There's also an after party at the Guvernment Nightclub too!

**Glow in the Dark Capture the Flag:** Don't feel like going to the After Party? Come out and play Capture the Flag in the dark with your buddies from New College!

**Hart House Farm:** To end off F!rosh week, you and your fellow F!rosh and leedurs can go swimming in a pond, eat delicious food, play card games, throw Frisbees, sing engineering songs around a fire-pit, and perhaps partake in some BEvERages. This camping trip costs extra, but it's well worth it!

## Why should I go to F!rosh Week?

The better question to ask should be, "Why should I not go to F!rosh Week?". It is a great opportunity to acclimatize yourself to the place you will be spending the next couple years. You will meet your new faculty, your professors and your classmates. You'll also get familiar with the campus so you won't get lost on your first week of classes. Most importantly, you will have an incredibly great time! So go sign up for your F!rosh kit as soon as you can!

## Why do I have to buy a F!rosh Kit? What's in it?

Your purchase of a kit allows us to pay for all the fun activities you will experience throughout the entire week. By ordering one, you will have access to all the events and a lot of free/discount stuff such as your hardhat, free tickets to F!rosh Nite and Skule Nite and much, much more!

## How big are the F!rosh groups? What's a 'Leedur'?

Group sizes vary from 40 to 70+ people depending on how many wandering, confused F!rosh get 'stolen' by Leedurs. Each group will be led by two 'Head Leedurs' who will be with you for every activity during the week. They will be supported by a cast of 'Leedurs' who are there to help carry out activities and have fun with you folks. They're all friendly upper years, so feel free to ask them any questions about Skule™ or just have a nice conversation with them!

## What's with this purple dye business?

You'll read more about why on page 17, but when you do voluntarily dye yourself purple, prepare to get everything in close proximity to you dirty. Depending on how long you dip yourself, your skin will stay purple for one to ten days and even longer for your nails. Therefore, don't wear anything you absolutely don't want to get purple!

## I'm a commuter, I can't stay late.

Sure, you may be in the unfortunate situation of limiting your enjoyment of F!rosh Week within the operation hours of public transit, but we've got you covered! Sign up for the Commuter Program! This is pretty much residence for commuters during F!rosh Week, so you can stay near the University and enjoy the week to its fullest! No need to worry when the last train/bus leaves and you will definitely get to meet a LOT more people.

## I'm worried about this Secondary Education Evaluation. Tips?

Even though it would not affect your marks in University, it would be pretty wise that you take this opportunity to review ~~some~~ all of the high school content you have forgotten during the summer. The content of the test is based on the Faculty's expectations of what your academic proficiency should be for you to do well in first year.

## What happens at Hart House Farm? Why pay extra?

An hour away from Toronto, HHF is a nice way to cap off F!rosh Week, where you can relax and unwind for one last time before school begins. It's basically a campground where you are able to engage in all sorts of activities with the new friends you made during the week and possibly make even more then! Obviously, the extra \$20 will provide you with transportation, food and accommodation. What a deal!

## I'm nervous for F!rosh Week! So many strangers!

They're probably thinking the same thing too. You will be spending the next 4+ years of your life with these people, so might as well have an open mind and get to know them early! Your Leedurs are nice people too. They love to have fun and meet new F!rosh like yourself. Don't be afraid to reach out!

# WHERE YOU FROM?

You'll meet people of many different races (disciplines) at Skule™. Read about them here.

## Chemical

**NAME:** Padme Amidala

**STRENGTHS:** Seducing male engineers, crowding Wallberg

**WEAKNESSES:** Chem common room one of the smelliest, CHE112 (electricity and chems don't mix)

**BIO:** With the only 1:1 male-to-female ratio in the faculty (comparably, engineering boasts a 4:1 ratio), you can bet that half the girls you meet are Chems. Beware of male engineers attempting to show off their flirting 'skills' around you - most will fail miserably. Proceed with caution as some may even attempt to use chemistry-related pickup lines. And for the love of God, don't fall for Anakin! Spending too much time flirting with all-too-willing Mechs may be fatally detrimental to Chems.



## Civil

**NAME:** Darth Sidious

**STRENGTHS:** Building (and re-building) the Death Star, basic math, consuming BEvERages

**WEAKNESSES:** Real math, uniformly distributed loads, extreme winds, earthquakes, unexpected situations that cause failure

**BIO:** Professor Collins (aka God to you young F!rosh) has three rules for every Civ to live by:  $F = ma$ , you can't push on a rope, and to get the answer, you must know the answer. While this may make absolutely no sense now, you will understand in time, young padawan. Civs know more about concrete, timber and steel than anybody else. Maybe that's why they can achieve such large erections.



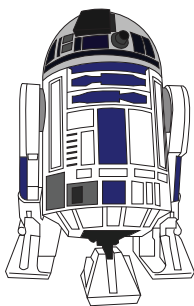
## Computer

**NAME:** R2D2

**STRENGTHS:** Programming, speaking in code, DotA

**WEAKNESSES:** Water (and showering in general), girls, exercise, power failures

**BIO:** It's a sure bet that you will always find stray Comps in any one of Skule™'s ECF labs. When approached, Comps will often speak in binary or incomprehensible blips. Comps also rarely get any exercise outside of Street Fighter. It isn't clear if Comps have wires instead of veins and arteries - nobody can get close enough to check because of the smell.



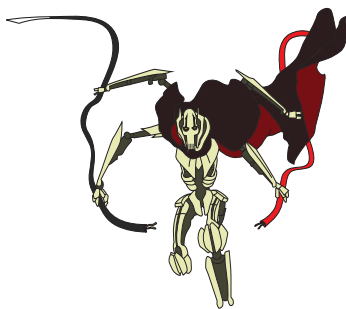
## Electrical

**NAME:** General Greivous

**STRENGTHS:** Making really cool lightsabres, winning Skule competitions unfairly, manipulation of electricity and magnetism

**WEAKNESSES:** Showering, short circuiting

**BIO:** The Electricals (Elec) are one of the more 'shocking' (so punny!) personalities at Skule™. They can be found working on their neverending supply of pre-lab questions, or charging their power with a quick nap. It is unclear if it is even possible for an Elec to get electrocuted, since everybody knows that the Elec's system is electrically charged... wait, you didn't know that? Silly F!rosh!





# Engineering Science

**NAME:** Yoda

**STRENGTHS:** Mental power, delta epsilon proofs, triple integration

**WEAKNESSES:** Professor Stangeby, spare time, the X-Box and flat screen TV in the common room

**BIO:** Strange people EngSci's are. Work so hard they do. Obnoxious over-achievers for the most part they are. Praxis and delta epsilon proofs they must do. Themselves they do hate for they alone chose to participate in this torture program.

But in all seriousness, the EngSci is a rare breed, and a hard worker. They are most often found sleeping in their common room (it haz lots uv computerz!) and often find new ways to use the force, usually as a Mech or a Civ.



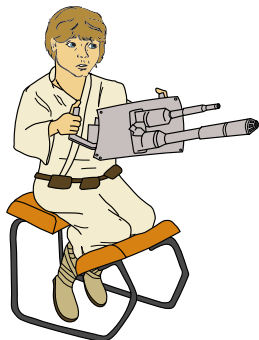
## Industrial

**NAME:** Luke Skywalker

**STRENGTHS:** Flipping burgers, optimizing the universe

**WEAKNESSES:** Finding a job

**BIO:** Like Luke, the Indy looks to make things better, and is largely responsible for the optimization of the universe. Unfortunately, this will only ever get them a job working as a drive-thru attendant at your local McDonald's. Indy's take courses that are more similar to that of an Artsie, accounting for all of the free time they have. U jelly engineers?



## Materials Science

**NAME:** Qui-Gon Jin

**STRENGTHS:** Flexibility, ability to use the force to channel materials around them

**WEAKNESSES:** Forces beyond their yield strength

**BIO:** The MSE is somewhat of a jack-of-all-trades, borrowing knowledge from other disciplines. They are proficient in the use of the Force, and can truly call themselves Jedi Masters. Oftentimes the MSE can be seen around Skule using the Force to manipulate their environment, adapting to understand chemistry as a Chem would, material strength as a Civ or Mech would, and conductivity as an ECE would. Unfortunately, this impressive ability never seems to help them get girls or moniez.



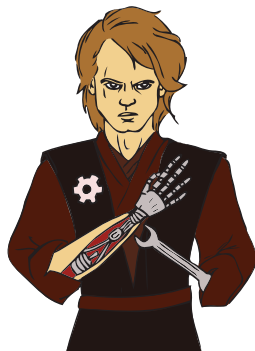
## Mechanical

**NAME:** Anakin Skywalker

**STRENGTHS:** Rebuilding their own body parts from mechanical components

**WEAKNESSES:** Padme Amidala (Chems), dynamics (just you wait young F!roshie, just you wait)

**BIO:** The polar opposite of the Chem, Mechs are grand old group of mostly boys who play epic amounts of foosball. They can often be seen chasing Chem's around, much to the chagrin of the ECEs. Mechs are very competitive, and are always looking for a new challenge. But please Anakin, no dark side! You're probably too smart to become an Artsie anyways...





# WHERE YOU FROM?

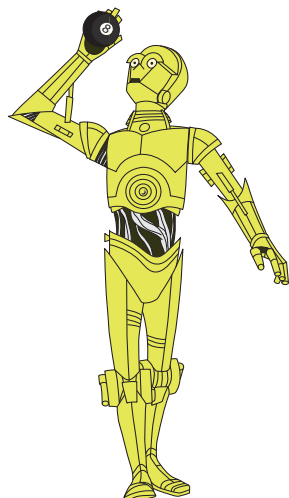
## Mineral

**NAME:** Jawas

**STRENGTHS:** Building excellent mining machines

**WEAKNESSES:** Shiny rocks, groups larger than 12

**BIO:** The Min is the rarest Skuligan, and cannot be found in groups larger than twelve. They have a profound affinity for rocks, especially those of the shiny variety. This love for rocks often overshadows their need to eat, sleep and breathe. Over their four (or more) years at U of T engineering, it can be observed that Min's slowly petrify until they are living rocks themselves. Unfortunately, this tends to hinder their attempts with the ladies if you know what we mean. But don't fret... they've got their pet rocks to keep them company.



## TrackOne

**NAME:** C-3PO

**STRENGTHS:** Procrastination, infiltrating other common rooms

**WEAKNESSES:** Making decisions

**BIO:** C-3PO speaks a ton of languages fluently; similarly, T1's strive to learn the general art of engineering, becoming 'fluent' in all of the Core 8 disciplines. After first year, TrackOnes follow their calling and continue their studies in one of the Core 8 disciplines (and maybe into EngSci if you're hardcore).

## Artsies

**NAME:** Jar Jar Binks

**STRENGTHS:** Reading poetry, listening to music you've never heard of, protesting flat fees, colouring

**WEAKNESSES:** Utterly useless for anything worthwhile, can't get a real job

**BIO:** The sworn enemy of the engineer, artsies will do less work than you will over the entire course of their undergraduate degree than you will in one semester. Beware of artsies attempting to steal your beloved hard hat during F!rosh week. If one manages the feat, yell "HARDHAT!" and one of our Leedurs will come to your rescue. The leedur may also steal the artsie's shoes just for fun. Although we don't think the artsie will mind too much - they'll just be happy to be following some obscure trend you've probably never heard of.



# NAME THAT HARDHAT

The Engineering Society and other Skule™ groups provide specially coloured hardhats to individuals that fulfill leadership roles at Skule™. Apart from being nice collectibles, these hardhats provide recognition for these individuals' efforts, promote awareness of their roles, and promote Skule™ spirit.

During F!rosh Week, if you see an upper-year with a non-yellow hardhat, ask them how they got it to find out about leadership roles at Skule™!

## Yellow Hardhats



All F!rosh are issued a yellow hardhat just for attending F!rosh Week! You'll take an oath on it, and then wear it proudly during the week, but beware – artsies will try to steal your hardhat because it's on their scavenger hunt list, or for shits and giggles. If your hardhat is stolen by

someone, yell "HARDHAT" as loud as possible and watch the upper-year students converge on that unfortunate individual.

## Engineering Society (EngSoc)



### White – Governance

These hardhats are worn by the Officers of the Engineering Society (the executives of your student government) and the Discipline Club Chairs. They have a high-level role in establishing and maintaining the direction of the Society and our Discipline Clubs, and they make sure EngSoc's regular business gets done.

Note that the EngSoc President's hardhat is actually a fireman's hat. These people can usually be found in the EngSoc office in the SF Atrium – ask them questions about how to get involved and how EngSoc supports you during your time at Skule™!



### Green – Projects

People with green hardhats carry out tasks and projects for the Engineering Society, including internal operations, commercial operations, publications, events and outreach. EngSoc runs a discount textbook store, a cafeteria, a student-run pub, 2 newspapers, a yearbook, 2 dinner dances, an engineering design competition, a career fair, high school outreach events, and F!rosh Week! The people who run all these things, and those who support EngSoc's general administration (like our Executive Secretary, Chief Returning Officer, Webmaster, etc.), all receive green hardhats.



### Orange – Representatives

Orange hardhats are awarded to your elected representatives on various boards and councils. These people speak on your behalf to various groups within and outside of EngSoc. They include:

1. Directors of the Engineering Society Board of Directors
2. Class Representatives (represent you to EngSoc, the Faculty, and Discipline Club
3. Year Chairs (EngSoc)
4. UTSU Engineering Directors
5. Governing Council Representative for full-time professional faculty students, if they're an engineering student (represent you on the University's highest decision-making body)

Talk to these people to find out how to become involved in decision-making processes and student governance at EngSoc, the Faculty and the University!

# NAME THAT HARDHAT



## Grey – Affiliated Clubs

Leaders of EngSoc-recognized student clubs get grey hardhats. Ask them what their clubs do and find out how much Skule™ has to offer!

## Skule™ Trinity

### High-Visibility Orange – Bnad Leedurs

"Leedurs" of the Lady Godiva Memorial Bnad get the only "high-visibility" hardhats at Skule™. The Bnad brings enthusiasm to Skule™ events while trying to play music. Joining the Bnad is a great way to meet insane involved people at Skule™, and they'll welcome you especially even if you don't play an instrument!



### Black – The Cannon Guard

Sworn protectors of Ye Olde Mighty Skule™ Cannon, our glorious mascot, wear black hardhats. They can be seen Honouring, Respecting and Protecting our cannon during Skule™ events throughout the year. Get involved in Skule™ life, and one day, you may find yourself among them!



### Silver, Dark Blue, Light Blue – ???

These hardhats do not exist, have never existed and will never exist. You might see them around, but they're mostly figments of your imagination.



## Other

### Red – Skule Nite

Directors and Producers of the annual engineering musical comedy revue, Skule™ Nite, get red hardhats. You get a free ticket to Skule™ Nite just by purchasing a F!rosh kit! Go see it in March!



### Blue and Gold – Mr. Blue and Gold and Godiva's Crown

Hardhats bearing our Skule™ colours are awarded to the winners of Mr. Blue and Gold and Godiva's Crown, two Godiva Week competitions. Mr. Blue and Gold is obliged to drop his pants on command, the winner of Godiva's Crown must gallop upon hearing "Godiva!"





EPISODE V

**T**RADITIONS

# LADY GODIVA

Lady Godiva of Coventry is the patron saint and symbol of engineering.

Her story dates back to the 11th century when Lord Leofric governed over the city. The people of the city were suffering horribly under his oppressive taxation, and his wife, Lady Godiva, fought for their rights. Again and again she appealed to her husband to lower the taxes and finally he agreed to grant her request only if she rode through town naked on a horse. She took him to his word and rode through town, clothed only in her long hair. The villagers, out of respect for what she was doing, all averted their eyes. Lord Leofric kept true to his word and lowered the taxes.



Thus we honour and sing about Lady Godiva because she represents the heart of engineering: a willingness to sacrifice anything to ensure that the lives of others are better. It is our duty to uphold this and be the change we want to see.



# THE IRON RING



After four (or more) years, upon graduation, engineers in Canada are presented with an Iron Ring. The ring is (said to be) made from the iron of the Quebec Bridge that collapsed during construction in 1907 and killed 75 construction workers. Reconstruction began in 1916 but the bridge collapsed again. Upon further inspection by a U of T professor, John Galbraith, it was noted that there were major flaws in the engineering plans for the bridge.

In the wake of these disasters, our very own Prof. Haultain spoke in 1922 to seven past presidents of the Engineering Institute of Canada. He urged that young engineers be reminded that being an engineer brings with it great

responsibility and a deep moral obligation to society for the things they create.

Thus, with the help of Rudyard Kipling, a British poet, the ceremony, "The Ritual of the Calling of an Engineer" was born. During the ceremony, the iron rings are given to all engineers who possess high professionalism and humility in their engineering professions.

The ritual continues to this day. It not only identifies someone as an engineer, but iron rings are given to all graduates, representing professionalism and humility in the engineering profession. The ring is worn on the pinky of the dominant hand. It marks the page whenever you sign off your project, reminding us of the tragedy of the Quebec bridge and that we as engineers can save or destroy.

## PURPLE DYE

The legends say it was the glorious era of the mighty British Royal Navy. Her Majesty's ships were being set out to explore, conquer and claim exotic lands at the far ends of the Earth. The Royal Engineering Corps worked from dawn till dusk to keep Her Majesty's ships in good condition. To identify themselves as engineers, each officer proudly wore a bright purple patch on his right arm, just below the shoulder.

Alas, the sweat, grime and bilge water in the engineers' work environment resulted in a hefty portion of the bright purple dye from their badges transferring onto their skin. This allowed engineers to proudly wear the colourful mark of their profession, with or without uniform.

Royal Engineers would often sacrifice their lives and go down with the ships in a valiant attempt to slow down the sinking process so that more people might survive. As a badge of honour and respect, and more importantly, in memory of all the honourable men and women who have gone before us, we temporarily mark ourselves with the colour that expresses our pride in our history: purple.

Dyeing yourself during F!rosh week is not mandatory (but it does show Skule™ spirit!). If colouring your whole body is a bit too crazy for you, consider dyeing only a portion of your body (an arm, a leg...). Expect to remain purple for a few days (depending on your washing habits).





# ENGINEERING CLOTHES

## Coveralls



These bad-boys make Mace Windu's outfit look weak. Coveralls are your affordable, unofficial Skule™ uniform. They're \$45, comfy, always in style and handy to wear when you need to get down n' dirty. Unfortunately for F!rosh, you can't own one until you master the force and survive first year. Once you get 'em however, customize them with cool patches and wear it to all SKULE™ events and gain fame. Okay maybe not fame – but you'll look so good your friends will be wishing they customized it sooner.

## Leather Jackets

F!rosh, own leather jackets, cannot. (as Yoda would say)

Why is this so? Well, young padawan, engineering leather jackets are an honourable possession obtained by those elite engineering-jedi who have survived (and thrived) through the self-induced suffering we call "engineering." The Engineering Stores will sell you a jacket alright, but you'll be mocked and laughed at by your Skulemates if you wear it.

However, once you have earned the right to wear a jacket, go get it sized, customize the lettering and patches, place your order, and voila – you'll be looking sharper than Darth Vader! Be warned though, these leather jackets will poke significant holes in your pocket as they are around \$500 (but it's well worth it).



## Hardhat Decoration



**This is for serious.**

With all this talk of awesome stuff F!rosh can't own, what do you guys get to show off your spirit and awesomeness? Your hardhat of course! Wear your hardhat with pride. Protect it and don't give it to anyone!!

After a couple months of keeping it hidden from all those artsies, be sure to take it out of your dresser and decorate it! Past ideas include: a remote control car, Ye Olde Mighty Skule™ Cannon replica, potato cannon, electric car closed circuit, koopa shell, Spartan helmet, firebell, samurai helmet, working coffee maker, foosball table, binoculars, full blown speaker system, space shuttle launch pad, functional flamethrower and jester's cap. But F!rosh don't let this discourage you, show us what you're made of and bring the greatest hardhat in the history of F!roshkind at the Hardhat competition during Godiva Week!

And lastly, but most importantly: DO NOT FORGET to put a chain on your hardhat! It's vital to attach it to your hardhat and then to chain it to your waist to stop the Artsies from stealing it!

# GODIVA WEEK

With F!rosh week coming up, we have to mention its follow up adventure: GODIVA WEEK. This is like F!rosh week but bigger, better and colder. It all begins in the first week back for second semester and involves more fun than you could possibly imagine. Exaggeration? We beg to differ! It all starts with readings from the sacred book of Calculost and takes off from there.

One of the most gruelling, toughest, meanest, awesomest stops is Ye Grande Olde Chariot

Race, in which all disciplines and F!rosh (on their own) race in a battle to the death for eternal glory. By death, we do not mean death. However, you should be warned that although you get your own amazing team, your chances of winning are equal to zero, but the chances of having the most fun that snow and racing can offer are equal to 99.99%. We assure you, this has been calculated.

Also occurring during this week are the most amazing wit-displaying, gut-wrenching, over-the-top competitions, known as Mr. Blue and Gold and Godiva's Crown. "Unbriable" judges will be in charge of choosing the best acts of these oh-so sought after titles. Although you are not eligible for 1st prize, F!rosh are highly encouraged to participate.

But enough talk about the events you will absolutely enjoy but not be able to win; let's talk about the ones you will definitely be able to win. Calculost, a test of wit and skill; The Hardhat Decorating Competition, exactly what it sounds like; and the most important event, Ultimate F!rosh, in which the F!rosh that survives the most gruelling rounds will be crowned the Ultimate F!rosh.

One of the most important stops on this trip will be what has become an annual tradition during this week, which is the Village Pub Crawl. An amazing event in which engineers of all genders and sexualities will go on a long tour of the hottest pubs at the heart of Church Street Village.



**Godiva's Wake**



**The Charity Car Smash!**

At the end of the week and after a grand ceremony to close with a bang, Godiva Week will come to an end, but will continue with the funniest parties and keggers. To officially end this glorious week on the highest of notes, there is the Annual Engineering semi-formal, also known as Cannonball, where we can all dance off the hangovers from the week and enjoy a wonderful evening.

Brace yourselves and buckle up; it will be a bumpy ride.



# TIMELINE OF SKULE™

**1873 - The School of Practical Science:** The Ontario School of Practical Science (SPS), which was the precursor to the Faculty of Applied Science and Engineering (APSC) at the University of Toronto, was founded and occupied part of the Mechanic's Institute at the corner of Adelaide and Church Streets in downtown Toronto.

**1878 - The Little Red Schoolhouse:** The Northern Third Engineering Building is built at U of T to house SPS. Affectionately known as the Little Red Schoolhouse, it is located at the corner of King's College Road, where the Medical Sciences Building now stands.



**1884 - The Engineering Society:** T. Kennard Thomson, an SPS student at the time, hosts a dinner in which several students and two professors, John Galbraith and W. H. Ellis, are invited. During the dinner, the idea of an engineering society for SPS is discussed. Professor Galbraith fully supported the idea and called for a committee to draft a constitution for the Society. In January of 1885, the first election for the newly founded Engineering Society was held, with Professor Galbraith serving as the President. The first meeting of the society was held on March 3.

**1889 - More of the Schoolhouse:** The rest of the Engineering Building, including the recognizable tower on the east side of the building, is completed.

**1889 - Student President of the Society:** Professor Galbraith, feeling that the Engineering Society is capable of running with a student as its president, steps down. An election is held and H. E. T. Haultain becomes the first student to serve as president of the Society.

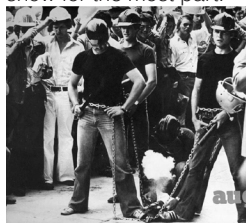
**1891 - Skule™ Colours:** The Skule™ colours for engineering are selected. The colours blue and gold are selected, and are still the colours used by the Engineering Society today.

**1906 - Welcome to U of T:** On June 20, the School of Practical Science formally becomes part of the University of Toronto. It is renamed the Faculty of Applied Science and Engineering, but the name 'SPS' remains a large part of the engineering identity.

**1911 - Toike Oike:** The Society creates an election paper for the student body, known as the Toike Oike. The origins of the word are not completely known, but there are legends about the source of the name. Toike Oike later becomes the 'Official' paper of the Engineering Society, presenting both humour and school-related news.

**1920 - "Toike oike, toike oike; Ollum te cholum te chay!":** The Skule™ Yell is heard for the first time.

**1921 - Skule™ Nite:** Ngynyr in SPaSmS has its first showing at Massey Hall on March 2. It would later go through several names and eventually become Skule™ Nite, with an annual show for the most part.



**1936 - Ye Olde Mighty Skule™ Cannon:** While cannons had been a large part of life at SPS since 1899, it wasn't until 1936 that the Mark I Cannon made its first appearance. It was built by a machinist in the mechanical department, and boasted 10" barrel with 6" bore, and 8" x 4" x 1" base, and was built a few hours before the School Dinner being held on November 20.

**1949 - LGMB:** The Lady Godiva Memorial Bnad (sic) is founded by A.J. Paul LaPrairie, and made their first appearance at the Homecoming Parade that year.

**1966 - End of an Era:** The Little Red Schoolhouse, with its deep connections to Skule™, is torn down to make way for a new Medical Sciences building. It was the last major link to SPS that Skule™ had, it was after this occasion that any opposition to the name 'Skule™' vanishes.

**1977 - Fire in Sandford Fleming:** In the early morning of February 17, a fire breaks out in the wall of the northeast lecture hall in the building (where SF1101 now stands). Undetected it spreads through the building, destroying student space, a portion of the Engineering Society space (including archives) and the offices of many graduate students and professors.



**1982 - Waterloo Tool Stolen:** Waterloo engineers cry about a large wrench.

**1984 - Trademarked:** The Engineering Society obtains the trademark on the name Skule™.

**2000 - Queen's Grease Pole Stolen:** 2000 saw the famous Queen's Grease Pole Liberation. A small section of the Pole was cut off and kept by us before the Pole was returned. Part of a piece was sold on eBay, the other part was added to the belt worn by the Chief Attiliator, where it can be seen to this day. The belt, incidentally, is the chain that once protected Waterloo's Engineering mascot, the Tool, before it too, was liberated previously.



**2008 - Engineers Remember The Wars:** Remembrance Day in 2008 marked the 90th anniversary of the end of the First World War. The engineers decided to pay their respects by arranging 628 crosses in Front Campus as a memorial of the students, faculty, alumni and staff who lost their lives in WWI. Despite going against University policy of obstructing Front Campus during Fall Convocation, the installation was granted a one day exception to allow the memorial to stay.

**2008 - Sword in the Stone:** After being removed by the university twice, a major symbol of Skule™ spirit, the Sword in the Stone, was finally resurrected in the Galbraith Quad. It stands 10 feet tall and is inscribed with the quote "For he that is blemish with this brode brande blinne shall he never." The quote is translated as "For he who is wounded with this broad sword shall never cease bleeding". Go see it sometime!



**2011 - Sword in the Stone II:** In retaliation to a "prank" by McMaster, we decided to show 'em how pranking is really done. We gave them their very own Sword in the Stone! Six brave students installed the 1600 lb. monument in front of the Mac engineering building. They evaded campus police by pretending to be a construction company finishing a rush order on a Sunday afternoon. Mac students were impressed, but their pranking society removed the sword after a few days and the concrete several days later.

**2011 - Class of 1T5 enters:** (What will your class add to the list?)



# YE OLDE MIGHTY SKULE™ CANNON

The campus quakes and the artsies tremble. The crack of thunder and a billow of smoke is all that rests in its wake. It is a symbol, a declaration of our indomitable will and unmatched supremacy. It is a testament to our glorious past and the infinite potential of our future. It is Ye Olde Mighty Skule™ Cannon and it is **YOUR** engineering mascot.

The Skule™ Cannon was officially adopted as our mascot in 1929 when the large cannons outside of Hart House were fired. In the early 1930s, a smaller Cannon began to appear at important engineering events, fire, and quickly disappear. This tradition has continued for over 80 years and today a total of seven Skule™ Cannons are in existence.

As the might and glory of the Cannon has grown, so to have the number of rivals that would like to steal it from us. Shortly after its creation, the need to protect our mascot was recognized and the Cannon Guard was formed. Throughout the years, there have been many attempts to steal our Cannon, both foreign and domestic. While jealous faculties within U of T have, on very rare occasion, captured our mascot, no other university has ever successfully taken our Cannon. It is because of the devotion from our engineering community that the Cannon has never been stolen without it being promptly returned to us.

Every member of our school's engineering society is a member of the Cannon Guard, and great lengths are taken to ensure its safety. As you become a part of our engineering society, you will undoubtedly encounter The Cannon and witness its unbridled might on many occasions. If you show both spirit and dedication, you too will one day guard The Cannon and help to forge the destiny of Ye Olde Mighty Skule™ Cannon.

Built on tradition and thriving on spirit, it is a common bond that unites our engineering community. It represents our strength, our unity, and our dedication. Let the crack of thunder and billow of smoke be a constant reminder of your pride as an engineer. The Cannon is **YOUR** mascot.

Honour It.  
Respect It.  
Protect It.

Chief Attiliator 2011-2012  
kaboom@skule.ca



# A BRIEF HISTORY...



**1929** An engineering caper resulted in the firing of one of the two cannons in front of Hart House (unfortunately, both were supposed to fire).

**1931** A small cannon began to appear during Skule™ festivities, was fired, and then mysteriously disappeared.

**1936** The construction of a new cannon began. This would be a tribute to engineering technology as it was not just a horrifying weapon; it also didn't

look like a cannon at all! Of course, it's worth and pride created adoration and temptation for everyone, especially outsiders.

**1941** University College stole The Cannon and thus a war had begun! After a thorough campaign of threats printed in the campus newspapers, UC planned to return it; but before they could, conniving engineers found its hiding place, and it was liberated back into the rightful hands of the engineers.

**1959** The Cannon disappeared into the meds' building. In retaliation, the engineers kidnapped the Med Society president. After a few days of negotiations, The Cannon was returned, marred with a new inscription that read, 'Captured by MEDS 5T2, 3 Feb. 1949'.

**1967** The most infamous Cannon steal of all. Capitalizing on a lapse in security, two graduate engineers spirited away The Cannon, and made their way to the British Isles. Six brave engineers took it upon themselves to restore the pride of Skule™, and tracked The Cannon to UC in England, where two of them, venturing into the thieves' living quarters, recovered it.

**1972** The first Gang Bang with the Rye engineers to decide who had the better cannon. Not only did we annihilate them in the contest, we also made off with the distributor wire to their bus.

**1976** Robert Gilmour (the CA at the time) defaced our mighty mascot by engraving his name into the bottom. The Engineering Society passed a motion of censure against him and the entire deed was exposed in the Toike. The Cannon Guards would henceforth wear black hard hats, in place of the traditional red ones, to signify the shame of his actions.

**1989** The 60th anniversary of the engineers' association with The Cannon; the guard was outfitted with new uniforms (black coveralls and black hardhats).

**1997** The Hart House porter prevented the Chief Attiliator, Drago Banovic, from firing The Cannon at Hart House. For those not familiar with the three rules of The Cannon: Nobody touches The Cannon, nobody touches The Chief, and nothing gets in our way! Seeing the safety of The Cannon at risk, all the engineers present, INCLUDING those who were not dressed as Cannon Guards, stepped forward to protect The Cannon. The Cannon was kept safe because of the help of fellow Skulemates. Do not forget, EVERY Skule™ engineer has a responsibility to protect The Cannon.

As you can see, the history of love, loss, pride, and war has earned the The Mighty Skule™ Cannon the title of our beloved mascot. The Chief Attiliator is responsible for the selection of the Cannon Guards, the firing of The Cannon and the protection of The Cannon.





## A vertical lightsaber with a bright blue blade. The hilt is silver with a brown, ribbed grip section. A small silver button is visible on the side of the hilt.

TSE crashing, **football field dashing**, alcohol stashing, **Jumbotron flashing**, Royal York trashing, **fountain splashing**, JOKE REHASHING, Oktoberfest bashing, button mashing, joke rehashing, , impostor bnad mocking, **Gradbball shocking**, **Con Hall rocking**, SCAVENGER HUNT JOCKING, **Chariot Race clocking**, United Way walking, **Speakers Corner talking**, **hockey game socking**; **Pop machine filling**, **READY AND WILLING**, Crown Royal swilling, **YO' WE JUS' CHILLIN'!** CN Tower ascending, **peace and quiet ending**, *Cannon defending*, many patents pending; **COKE MACHINE WIRING**, world take-over conspiring, **INSTRUMENT ACQUIRING**, **fear inspiring**, INTRODUCTION IS TIRING; *Seven year old Scotch decanting*, **ALL NUDE ALL THE TIME!** Vanier Cup rejecting, premium beer selecting, **GODIVA RESURRECTING**, tastes good with pectin; **Wheel of Fortune spinning**, stereo winning; **Swiss Chalet eating**, **Santa Claus greeting**, Atrium meeting, **SMASH BROS. BEATING**; Mad integrating, Nathan Phillips skating, *Aramark hating*, **triple X rating**; **Yonge St. cruising**, Varsity Bluesing, **music abusing**, ear drum bruising, **Blue Jay enthusing**, **IRON RING PERUSING**, Hart House Farm carousing, **Rum & Coke oozing**, referee accusing; **Gamecube playing**, **TROGDOR SLAYING**, artsie laying, fine paying; **Police escorting**, lecture aborting, broomball sporting, **cheerleader courting**; **S-DANCE BOATING**, Homecoming floating, proxy voting, sticker coating; **note nailing**, scale scaling, **SONG WAILING**, **movie delaying**; **Football loss cheering**, spaghetti monster fearing, alumni suds beering, fire bell searing; *Pride Parade priding*, traffic abiding, **trombone sliding**, Queens Golden showering, Sourpuss souring, **gin devouring**, **F! deflowering**; **FUNERAL HALTING**, **mascot assaulting**, beverage malting, **artsie insulting**, **CN Tower**, **Skydome**, **Eaton Centre**, **Pratt Building**, **Four Seasons**, **Innis Condo**, **Scarborough RT**, **Bahen Centre for Information Technology**, **Ontario University Fair**, *Varsity Stadium*, **Skule Nite**, **Spadina streetcar** **AND SHEPPARD SUBWAY OPENING**

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# LADY GODIVA MEMORIAL BNAD!



## RENEGADE MUSICAL TERRORISTS, MARCHING GREGORIAN CHANT SOCIETY, AND WHITE NOISE BRIGADE!

Da LGMB iz da best whey too git involhved inn ahhh da phun tings wee doo heer inn Engineering. Wee arr ah crayzee mixxxx betwixt ah marchyng bnad aynd ah spearit groop! Da LGMB iz ah reel eezzy cluhb too joyn; thair arr absohlootly noe comitmints rechoired, soh yoo jusztt sho up aynd hav phun! Weev goht ahhh dee instruhments yull ehvar kneed (sexyphones, trupits, trombonez, floots, aynd muhch muhch mohr!) aynd wee guarantee yoov goht awll da talunt yooill evur kneed!

Wee attend krash tuns uv uhvents dooring thuh yeer! Bassketbawll gaymez, ruhgbee champeeonshyps, charutee uhvents, paraids, wyne & cheeses, ceruhmoanees, aynd futbawll losses awll pheel owr moozical prezenss!

Howe doo yoo sin(up)? Evurree Engineering stoodent iz awlreddy uh member uv da LGMB! Goh too r websihght ([lgmb.skule.ca](http://lgmb.skule.ca)) to sin(up) fur da mailin lizt nd loohk owt fore LGMB announcemints during F!rosh Week aynd throo - owut thuh entire yeer!

Wahoozle!!!

Richard Medal  
Bnad Leedur

Gabriel Stavros  
D(r)umb Majur(k)

Mauricio Curbelo  
Joonyur Bnad Leedur



Sign up at:  
[lgmb.skule.ca](http://lgmb.skule.ca)



# This page does not exist

The page you are looking for did not, does not and will not exist.

Please try the following:

- If you were looking for this page specifically, you were mistaken. Ensure that you search for an existent page next time.
- Open the table of contents and look for a different page.
- Flip to the next page.
- Flip to the previous page

HTTP 263 - page does not exist  
Basic Facts Centre





Sooner or later, you may find yourself in a special situation: Defending the honour of Skule™. In the event where other faculties and universities are present, feeble-minded artsies and their ill-often attempt to snatch some of Skule's great artifacts by means of theft. So that you will be prepared, the handbook presents...

# THE SKULE™ HIERARCHY

(in case of emergency)

1. THE MIGHTY SKULE™ CANNON
2. The Engineering Flag
3. The Bnad
4. Your Hardhat
5. You

If THE MIGHTY SKULE™ CANNON is present, it must be protected at all costs. If the Skule™ Cannon is not present, then the Engineering flag comes first. The Bnad also need protection, for it is indeed difficult to beat off (?) attackers with a \$200 horn in one's hands. The rest of the Hierarchy is self-explanatory. Once items 1-4 are safe and secure, head for the nearest sanctuary or bar. You have your orders... Good luck, and may the Fresh force be with you.



EPISODE III

# ACADEMICS

# PRE-CLASS CHECKLIST

As your first lecture approaches, you should make sure you've stocked up on several essential items to last you through your first Skule™ year. Below is a list of suggested items that you should have access to somehow. Most of these are things you will have to bring to Skule™ every day.

- **Loads of lined paper**, and don't worry about killing trees – you will kill plenty of them over the next four years. It's for the greater good.
- **Pencils and a straight edge** for all your diagrams
- **Pens** to write with. Shai Cohen will recommend them as a confidence booster during math problems, since you cannot erase the ink.
- **A faculty-approved calculator**: Sharp 520, TI-30 or Casio 260. Most go with the Sharp 520.
- **Your Skule™ clipboard**, which you'll get in your F!rosh Kit. If you lose it, you can buy one at the Engineering Stores in the SF Atrium.
- Your most **updated schedule on ROSI** - and know the locations of all your classrooms! Don't just follow your classmates and assume they know where they're going. They are frosh, too.
- **Binders or notebooks** to keep your notes organized (if you take notes...which you should).
- A soft and puffy **knapsack** that you can use as pillow to fall asleep on during lectures. Try not to carry too much stuff around. Consider renting a locker from the Engineering Society if you're a commuter.
- Your free copy of the **Skule™ planner**, which you can get at the Engineering Society office
- **T-card** – you'll need to bring this to midterms and exams for ID purposes. Oh, and you should have your student number memorized.
- **Course textbooks**, from the Engineering Stores, Discount Bookstore, or U of T bookstore. You can also find these as Discipline Club “smokers”, and buy them off upper-years.
- **A computer** that you can do your programming assignment on, in case everyone in the ECF lab is playing DotA
- **A mobile phone**. Also needed to contact teammates for Engineering Strategies and Practice. Try not to get distracted in class.
- **iClicker** for Engineering Strategies and Practice lectures. An iClicker is a \$40 remote with 5 buttons, used for the purposes of taking attendance and separating you from your money.
- **Engineering notebook** – you'll have to buy one for APS111 and APS112, where you can keep track of your ideas and take notes during client meetings
- **Lunch**, and make sure it's substantial and healthy
- Enough **Skule™ spirit** from F!rosh Week to last you all the way to Godiva Week
- A **water bottle** that won't leak, unlike the ones from the UTSU
- **Sleep and good rest** - stock up on these before Skule™ starts
- A continuous source of **food** – regularly prepare food for yourself and eat at regular intervals. And don't rely on food trucks for nutrition.
- A continuous source of **cash** - Save money by cooking your own food.
- **Tylenol/Advil** and other rapid pain relief drugs in case your headache is preventing you from paying attention
- **Directions to the First Year's Office and Registrar's Office**
- **Humour**, but some profs will have plenty to share with you

## Before coming to University, I wish I had known...

- 1 That none of my expectations of university would be right
- 2 How to integrate
- 3 That you can know everything, and fail
- 4 That you can know nothing, and pass
- 5 That free food at 12:00 is gone by 11:59
- 6 That showering is always optional
- 7 That marks are not everything, even though they are important
- 8 That the most important things you'll learn, you'll learn outside of class
- 9 Everyone in engineering was the smart kid in high school.
- 10 That no matter how many alarms you have, you will still sleep in
- 11 That you're never going to figure out what you want to do with your life
- 12 That if you don't sleep, you will eventually fall down a flight of stairs
- 13 That you're not going to do well using someone else's cheat sheet
- 14 That life is better when you get involved
- 15 That there is no cure for procrastination
- 16 That a bag of chips and coke constitutes a nutritious breakfast
- 17 That I would start napping in the afternoon again
- 18 That "morning" is actually 1 pm
- 19 What "Wolfram Alpha" was
- 20 That you can talk to professors – most of them are human
- 21 A girl. Any girl
- 22 That it's okay to not know what exactly I want to do with my career
- 23 That lab reports take as long as studying for an exam, but lab reports are worth 1% and exams are worth 50%
- 24 That some professors don't care about teaching
- 25 Upper years
- 26 That you will remember the most random things about university
- 27 That theoretical knowledge isn't practical knowledge for a reason
- 28 How to use a library properly
- 29 That you can sleep almost anywhere at any time
- 30 That Wikipedia will make any concept too complicated to understand
- 31 That you can't do it all by yourself
- 32 That friends are what make Skule™ worthwhile.

# TIPS FOR SUCCESS

Hello F!roshies. These are the things that I (Freddy Chen, VP Academic) wished I knew or kept in mind during first year. I hope they help. If you have any questions or concerns about academics, please feel free to contact me at [vpacademic@skule.ca](mailto:vpacademic@skule.ca).

## **Don't obsess over grades! Know when they matter!**

- » You are attending university to get a good education, not a perfect report card.
- » It's normal for your grades to drop, so don't get discouraged if it does.
- » Don't depend on the bell curve to pass; always strive to do your best!

## **Study smart and do your homework!**

- » Don't leave everything until the very last minute. Give yourself enough time to learn everything properly.
- » Practice, practice, practice! Solving problems is the only way you'll be able to do consistently well.

## **Attend lectures and tutorials!**

- » Important concepts that appear on your quizzes/midterms/exams get covered during lectures and tutorials, so attend them regularly!
- » If you are not happy with your lecturer/teaching assistant and/or lecture/tutorial times for whatever reason, you are free to move around to different sections. Just remember to attend your own tutorial sections for quizzes!

## **Ask questions when you don't understand and get help!**

- » Don't be afraid. Do it in class. Do it in tutorials. You might ask stupid questions, but it's way more important that you understand the concepts. Professors and TA's are there for you, so don't be afraid to consult them during their office hours or send them an email. They will be happy to answer your questions if you ask politely!
- » Get a tutor to go over the concepts that you don't understand. [tutors.skule.ca](http://tutors.skule.ca) is good for that.

## **Slack off when you need to!**

- » Learn to relax when you need to, and come back to your work later with full concentration!
- » Just remember to plan your time wisely and give yourself enough time to finish your work.

## **Eat healthy, stay active, and get enough sleep!**

- » Eating healthy nourishes your body and mind and helps you think.
- » Don't skip meals during the day thinking you'll save time or money; your health is way more important!
- » Being physically active can provide you with more energy and concentration.
- » Never try to study when you're dead tired! You will only drag out the amount of time needed to finish your work.

## **Join extracurricular activities!**

- » Get involved outside of class! Get involved outside of school! Don't be tied down to academics all day.
- » Being involved can create a tighter schedule, but your days will feel more productive and fun filled.
- » A large part of your university experience will be about the people you meet and the things you do outside of studying.

## **Finally, remember...**

- » Learn to adapt to university life and find your own path to success.
- » Don't be discouraged if things don't go your way at first, or if other people seem to be doing a lot better than you without much effort.
- » Learn to identify and address your problems, and work hard to become successful!

# TIMETABLE GUIDE

About one month before your classes begin, you will be able to access your personal timetable on the Repository of Student Information (ROSI), located at [www.rosi.utoronto.ca](http://www.rosi.utoronto.ca). The first line of each box is the course code, the second line is the section code, the third line is the time (duh), and the last line is the building code followed by the room number (see the section on engineering buildings on the following page). Note that the locations of your classes may not be immediately available, so check back right before classes begin. If you have red boxes (conflicts), don't worry about it! This is a result of ROSI not being smart enough to understand the setup of some courses (it was probably designed by artsies).

There are three types of classes in engineering: lectures (LEC), tutorials (TUT), and labs (PRA, for "practicals"). Almost all courses will have LEC and TUT sections, which are each typically 1 hour long, and some will have PRA sections, which are typically 3 hours long and may run on alternate weeks (denoted by an asterisk [\*] after the course code). Large courses will be split into multiple sections since not everyone can fit in the same room at the same time. There may be up to 5 or 6 lecture sections and 20 or more tutorial sections. Different lecture sections may be taught by different instructors (although all assignments, tests and exams will be the same) and different tutorial sections will almost certainly be taught by different teaching assistants (TAs). The numerical component of the section code tells you which section you are in. Depending on the course you may be able to attend a different section than the one on your timetable, but you should check with your instructor or TA first. You can safely ignore the first two digits of the section code (in engineering courses, they will always be 01). So LEC 0102 is simply the second lecture section.

## Lectures

Most of your courses will have 3 one-hour lectures per week. In lectures, the professor will do exactly that – present all of the course content in 50-minute segments. Lecture styles vary, with some instructors choosing to use slideshows, but most profs will use the "chalk & talk" format of talking while writing key points on the chalkboard. Lecture attendance is not mandatory, but if you start skipping class, you can fall behind very quickly.

## Tutorials

Most courses will have a single one or two hour tutorial each week. Your tutorial section will consist of about 30 students and a TA who will review the week's content and answer any of your questions. Attendance is not mandatory, but there may be quizzes or other evaluations in tutorial, so skip at your own risk. Tutorials are much more useful when you prepare questions in advance – if you were hopelessly lost before, you will be afterward too!

## Labs

A few of your courses will have a lab section, usually 3 hours every other week, in which you conduct experiments and write reports about them. Note that unlike tutorials and lectures, which start at 10 minutes after the hour, labs start on the hour!

# ENGINEERING BUILDINGS

## Bahen Centre for Information Technology (BA)

Separated from all the other engineering buildings by St. George Street and a very annoying crosswalk, the Bahen (pronounced "Bay-en") Centre for Information Technology is the newest, flashiest and the most reflective building out of all other engineering buildings. The building is connected to the Koffler Center from the inside, which leads to a Second Cup and the U of T Bookstore. The connecting hallway entrance is opposite to the MegaBites Café, which serves Starbucks coffee. The lecture halls are really big and have comfortable seating and tables, which are especially inviting when you can't seem to keep your eyes open. On the third floor there are little study spaces that have blackboards, chairs and tables which are perfect for studying, napping or eating your lunch (though these are always full). Home to the EngSci common room and ECE study hall, a multi-faith prayer room and nice washrooms, Bahen is definitely one of the cooler buildings (just don't tell that to Shai Cohen—he has given field trips around this building instead of lecturing to show students how poorly it was engineered!)

## Sandford Fleming (SF)

This is the Engineering building, and the centre of student activity at Skule™. It is home to "the Atrium" (also called "the pit"), a magical place in the basement (basically the entire basement) where you will find that something is always happening. Skule™ events like Suds, Godiva Week, Flosh Week, and other fun things happen here. The Engineering Society, Suds and Lady Godiva Memorial Bnad have their head offices located in the basement. A fun place to hang out, the atrium has lots of tables, chairs, a cafeteria, a photocopying machine, a couple of microwaves and the Bnad's vending machines, which sell pop for really cheap! Also, the Engineering Library is on the second floor and the Linux computer labs (where you will be spending countless hours trying to figure out your programming assignments) are on the first floor. While the faculty buildings have official 'open' hours, 24-hour access is available to SF and Galbraith through the two south entrances in the engineering alleyway (near Engineering Annex). And remember, you can also get to the third floor of Wallberg via the bridge from the second floor of SF.

## Galbraith (GB)

Named after our first Dean and connected to the Sandford Fleming building, this is the building you will be frequenting every time you need to take care of paper work. The First Year Office, Office of the Registrar and Admissions Office are all located near the lobby. This is the place where you will have to pick up your OSAP papers, awards or scholarships, and get information about the T-Program. The building has lecture rooms with seats that look are not the greatest, and the heating is always turned up a good 5 degrees higher than it should be. Another thing to note is that this building has Windows labs (GB144/150) which offer Microsoft Project, something you can't get in the Linux labs.

## Wallberg (WB)

Home to the MSE and Chem Eng Departments, Wallberg is a building which oddly resembles Wayne Manor in many ways. It is really long and features puzzling entrances which connect it to different buildings from the ground floor and second floor. It has a lot of tutorial rooms and labs, with lecture rooms that are spacious and brightly lit. If you ever dare tread into this building make sure you know your way out because there always seems to be construction going on and the exits are locked most of the time. This building is also the length of a city block.



## Mining Building (MB)

The Mining Building is, not surprisingly, home to the MINs. One of the oldest buildings on campus, this building has a lot of labs and big lecture halls. It has the Mech/Indy common room, which has pool and foosball tables. The Canadian Mining Hall of Fame is located on the first floor of the building, it contains a lot of interesting history about mining in Canada, and so it's a worthy thing to check out. There's also some work happening in the attic, which apparently will result in lab space for CIVs and MINs.

## Mechanical Building (MC)

This building is home to the Mechs and Indys. You will probably have a few classes in this building in your first year. It has quite a few lecture halls and, most importantly, the most comfortable chairs (in MC102). With cushioned seats, the sleepability in a lecture is remarkably enhanced. The lecture rooms that start with a 2 are not really on the 2nd or 3rd floor, they are astonishingly located on floor 2.5th floor. So have fun trying to find where they are, and try not to be late because of it! If you ever need to access this place late at night or on weekends, you would have to go in through the east entrance of the Rosebrugh Building (RB) and find your way around. Same goes for the Mining Building or Haultain.

## Engineering Annex (EA)

This little building is located in the alleyway between Wallberg and SF. The most notable thing about this building is that it contains the ECF headquarters. If you have problems with your ECF account, need to reset your print quota or need to print in color, this building is your destination. Some design teams also have space in this building.

## Haultain (HA)

Hidden away like the swamp planet Dagobah, this building is most notable for how hard it is to find. It is tucked away in a sketchy alleyway between MB and MC. It's also named after the second Engineering Society President. It has tutorial rooms on the fourth floor where you will probably write tests. Also, the elevator is kind of broken and doesn't always work right. So give yourself some time in advance if you have to go into this building.

## Discipline Common Rooms

**Chemical**  
WB 238

**Civil**  
GB123

**Electrical and Computer**  
SF B650

**Engineering Science**  
BA 2128

**Material Science**  
WB 143

**Mechanical and Industrial**  
MB 225A

**Mineral**  
MB 131

**TrackOne**  
SF 3213

A map of the engineering buildings and surrounding area can be found on the last page of the book (p. 112).





# CLASSROOM ETIQUETTE

Similar to the Jedi Temple, there are many unspoken rules in the classroom. While these rules may not be as strict as the ones in your high school, cross the line, and you will be on your way to the dark side.

## Talking

Depending on where you are in the lecture hall, quiet conversations are generally tolerated. Do try to avoid frequent conversations if you decide to sit at the front. Keep in mind that you may be disrupting others when you decide to talk with your neighbours.

## Punctuality

There are no such things as late slips or sign-ins in university. You are technically free to pop by and leave whenever you please, however, it is rude and some Profs do take offence. If you are late for class for any reason, a good rule of thumb is to avoid disrupting the class and bring as little attention to yourself as possible. Never arrive late and storm into classroom to get those front row seats. Leaving in the middle of a lecture follows the same notion, but do try to leave during a pause, not in the middle of the professor's talking.

## Food

Strictly speaking, food is not allowed in classrooms and some profs will call you out on it. If you do decide to eat, try not to make a mess of it and make use of the garbage bins. Always remember that you are sharing an environment with many others!

## Sleeping

Whether it's the wild party you went to on Thursday night or that those assignments you stayed up all night to finish, we recommend you to refrain from sleeping in class, as you might lose out on valuable course material. After all, there are probably better places to sleep than those chairs in SF1101.

## Electronic devices

There are usually no strict rules against the use of electronic devices in the lecture halls. However, develop the habit of putting your phone on silent or vibrate every time you walk into a lecture hall. Not everyone may be digging the new Lady Gaga ringtone you've illegally downloaded.

# TEXTBOOKS

Textbooks will be your best friends in your four years of study. There are multiple sources on campus to get textbooks; the followings are in order of preference by most of the students.

**Note:** You do NOT have to get all your textbooks before class starts. Make sure you are getting the right editions before you spend hundreds on them. Profs will tell you this information in the first day of lecture and they typically will give you around a week before you start to need it for homework.

## Engineering Stores, run by the Engineering Society

**Location** Basement of Sandford Fleming Building (Next to EngSoc office). You can also check out [stores.skule.ca](http://stores.skule.ca) for the catalogue and textbook pre-orders.

**Items** The bookstore has all of the books required for first-year engineering studies.

**Price** It's way cheaper than the Bookstore; and discounts will be applied if a set of books is bought together. These books are practically sold at cost.

## Upper-Year Students

**Location** Wherever you can find them, usually Discipline Club smokers

**Items** However many textbooks they have left

**Price** Whatever they want to charge you

## Discount Bookstore

**Location** 229 College St. It's located at the basement behind Einstein's (all engineering students know where that is!), though it's tricky to find.

**Items** Most textbooks for all years can be found here

**Price** Cheaper than the U of T Bookstore

## TUSBE

**Location** [www.tusbe.com/](http://www.tusbe.com/)

**Items** U of T Students post their offers and requests on the U of T Student's Book Exchange website – there are about 100 per day

**Price** Some offers indicate exact price wanted, others are negotiable with the owner through email

## U of T Bookstore

**Location** 214 College St. (next to the Bahen Centre)

**Items** It has all the textbooks you will ever need and other required devices as well

**Price** The highest on campus for just about anything

## PAST EXAMS

Doing the past exams is the best way to get ready for exams. It is a good way to test how well you master and apply the knowledge. Professors sometimes use the same test format for all their exams and if you get lucky, questions from previous years could be asked as well. Some sections from the past exams might not be covered in your year of study, so you'll have to check with the course coordinator for the syllabi of specific courses. They can be found at [courses.skule.ca](http://courses.skule.ca).

# STUDY SPACES

Ok, so we know that studying is usually fairly integral to passing your classes; every young Padawan must study under a Jedi Knight before becoming a true Knight in the Jedi Order. But where should you go to practice your lightsaber skills? Or refine your mastery of the Force? Look no further young Padawan - we've got you covered.

## Your Discipline Common Room

If you don't mind the noise (or the smell), studying in your discipline's common room has a few benefits. Most of the time you'll find that there is either another first year struggling through the same problem set you are or an upper year who might be able to help. And if you like to reward yourself at regular intervals, we only have two words for you: foosball tournament.

## Engineering and Computer Science Library (SF 2402)

The Engineering Library, located on the upper floors of Sandford Fleming, has three things going for it: firstly, it's quiet; secondly, it's near your classes; and lastly, there's a ton of engineering-specific info available for you to research. At times it can be quite busy so don't expect to always find space for your whole ESP design team!

## Robarts Library

Yeah, we know this is the Artsie library. But we can give you a mathematical relationship that proves why you should go to Robarts: the amount of quiet, deserted spaces to study rises exponentially the higher you go in the building. Seriously, the thirteenth floor is usually deserted, plus it offers a wicked view of campus, and pretty much all of Toronto down to the lakeshore. How's that for picturesque?

## E.J. Pratt Library

This one is on the northeast corner of campus - don't go here unless you have a few hours to kill because this is a ten minute walk across Queen's Park. But the walk is totally worth it! The basement of Victoria University's library has some great desks that are perfect for group work, and some comfy chairs for individual study. Upstairs there are great cubby holes amongst the book stacks that are perfect for silent study. No matter how you prefer to study, the décor will put you in the mood to sit down and hit the books.

## Gerstein Library

This is the health sciences library. A open, studious environment, Gerstein offers a good set of comfy chairs in cubby holes on the second floor which are perfect for napping... we mean studying, of course. It's right next to the Medical Sciences building, so it's quite close to us, too. Considering it's been recently renovated, it is a popular place for many students to study during the day and exam time, so it can get quite busy and tough to find a spot.

## Hart House

Ok, so we know that Hart House is a building almost entirely devoted to recreation. But the reading room on the second floor is a great place to try to get all of those chapters your prof assigned you read. Hart House is close enough to class to be accessible, but far enough that it's a good change of setting.

Alright Froshies. If you're ever even going to THINK of passing first year, you damn well better learn how to use the ECF (Engineering Computing Facility) computers on campus. There are a bunch of labs all over the place and some are Windows computers and the rest are Linux based. Don't worry just yet; it's not hard to learn (This may all sound like gibberish, but remember all this for later!)

## Departmental Labs

MIE	MC 402, MC 325, RS 303, HA 410
CHEM	WB 216A/B
MIN	MB 130
MSE	WB 158
ENGSCI	BA 2124
CIV	GB 422

## General Labs

LINUX	SF 1012
	SF 1013
	SF 1106
WINDOWS	GB 144
	GB 150
	WB 316
	SF 1106

Note: ECE also has their own computing facilities, separate from ECF.

## Getting Started

You already have an account! The password will always be the last four digits of your student number, followed by the two digits for the month and the two digits of the day of your birth for a total of eight characters. You can change your password at:

<https://ssl.ecf.utoronto.ca/ecf/services/passchange>

If you do not know your username, follow these easy steps to get access your shiny new ECF account:

**Step 1** Swipe your Tcard at the door of **any Linux lab** and sit down at a computer.

**Step 2** Type "account" at the login screen, and then select "I want to find out my ECF username." Or go to <https://ssl.ecf.utoronto.ca/ecf/services/getname>

**Step 3** Follow the instructions on the screen to receive your login name.

**Step 3A** While here, you can also change your password to something different.

**Step 4** Login with the same login name you just got.

### Using a Windows Lab:

**Step 1** Swipe your T card at the door of any Windows lab and sit in front of a computer

**Step 2** Log in with your given login name and password

**Step 3** To change your password, press CTRL + ALT + DELETE once, and click on change password.

Note: Your username and password will be the same for both Linux and Windows labs.

## ECF Mail

You all have an ECF email account. Your ECF email address is yourlogin@ecf.utoronto.ca. This is NOT your Utoronto account; this email address WILL expire once (if) you graduate or leave engineering. Pretty much all the emails related to academics, from your department, professors, etc. will all come to this email so check it!

To check this email, you could go to the Linux labs and use the Pine Mail Reader (click the Christmas tree on the bar on the top of the screen). However, if you ask any upper years, they'll all tell you to forward it to an email you check more regularly. I cannot stress how important this is so use it!

### **To forward your ECF emails to another email account**

**Step 1** Log into ECF's webmail interface at <https://postbox.ecf.utoronto.ca/webmail/> using your ECF username and password

**Step 2** At the top of the main pane, select "Options"

**Step 3** Choose "Autoresponder / Mail Forwarding"

**Step 4** Follow the instructions on that page to set up automatic replies and/or mail forwarding

## **Stress Relief in the ECF labs**

While the main purpose of the ECF labs is for you to do your work, they can also be used to kill time or relieve stress. And what better use for a cluster of computers on a single network than having a little LAN fun? On Windows computers there is a drive named "Factsage" which houses a few popular games like Starcraft, Warcraft III, and Counter Strike, all of which you can play with your friends over LAN. You can also run portable (no install required) versions of games you can bring yourself. On Linux computers, there is a menu of strange and weird games that won't be found anywhere else. However, it is important not to be a jerk while gaming in the ECF labs, if people need computers for actual work, be kind enough to give up yours if you are gaming.

## **Printing**

For each term you are given a quota of 'free' printing from ECF labs. Going over this limit by 99 will result in a \$5 fine per 100 sheets. But don't worry; you can save prints by printing double sided, multiple pages per sheet etc.

### **In the Linux Computer Labs**

To print double-sided, select a printer with the letter 'd' at the end of the printer name. For example, 'sf1013ad' will print double sided, but 'sf1013a' will not.

To print multiple pages of a PDF per sheet use 'Multiple Pages per Sheet', which is under 'Page Scaling' in the main print menu. To print from a website or an open office application, the option is found under the 'Page Setup' tab.

### **In the Windows Computer Labs**

To print double-sided, select a printer and click 'properties'. Under 'basic' tab, look for the subheading titled 'Duplex'. Select 'print on both sides', as well as 'flip on long edge' (for binder-friendly pages!).

To print multiple pages per sheet, look for a section titled 'page handling' or 'zoom' (depending which program you're printing from) in the main print menu. Under these headings, look for 'Multiple Pages per Sheet' or 'Pages per Sheet'. In general, 4 to 6 slides works well per page depending on how many extra notes you want to take.

### **A few more tips on printing**

Printers in the ECF labs can sometimes get extremely busy (30+ minute wait for prints), departmental labs are generally less busy. It is best to get your printing done early.

Colour printing is available in the ECF main office in EA212 but each coloured page takes 20 sheets off of your quota.

Large number of people do not come close to finishing their quota, so if you have friends, chances are you can mooch off of someone else's print quota if need be.

## Tips for Saving Paper

### One-Sided Paper Bin

Look out for one-sided paper bins in computer labs near you! Found near every printer in the labs, they are for sheets with one side blank. This paper is available for you if you need it to write notes on or use as scrap paper! To help everyone out, please place any of your extra paper in this bin.

### Removing the Header Page

When you print in the Linux labs, you print a header page that has your student information on it. This page is only useful when there are a lot of people printing so you can figure out which pages are yours. To get rid of this page, you can either put it in the one-sided paper bin or to not even print this page at all. This is done by unchecking 'Print Banner Page' at the bottom of the window with the list of printers.

## Connecting to ECF from home: A Commuter's Best Friend!

### Remote Desktop – Connecting to Windows

To access the ECF Windows computers from home, you simply need to visit <https://ssl.ecf.utoronto.ca/ecf/services/rd>. From the site, select an available workstation and an .rdp file will be downloaded. Run the file and log on as if you were in a windows lab. This will allow you access to applications for late night lab report sessions like CES for MSE 101. You can also use this feature to transfer files from your own computer to your ECF account and vice versa!

### SSH – Connecting to Linux – Compiling your C code from home!

To access the ECF computers from your home, you can use a program called an SSH client. One of the most popular ones for Windows is called PuTTY and you can get it from <http://www.chiark.greenend.org.uk/~sgtatham/putty>. The file you want is called "putty.exe", there is no installation, so just save it somewhere. To check your ECF email from home or any terminal, just type "pine" once you've logged in. If you want transfer files to and from Linux (to compile your C code written at home!!), you'll need another program called WINSCP, but since it has a very nice user interface you can download it and start using it right away.

### Using PuTTY

Start the program and on the main screen enter the following:

Hostname: `remote.ecf.utoronto.ca` Port: `22`

SSH button should be selected. Click keyboard in the panel on the left, and set "The Backspace Key" to "Control-H" (don't ask, silly Flrosh!). Click open, and then enter your login and password. Once PuTTY is started, it's used pretty much the same as the Terminal in the Linux labs.

## Frequently used Linux Commands

Use these commands in the terminal or through SSH. All commands with square brackets (i.e. [something]) mean you should replace [something] with whatever is appropriate for the command. NOTE: Linux is case sensitive! For example, "cd" will do something while "CD" will not.

**cd** [directory] – Changes the current directory folder to [directory]

**cd** .. – Go to the previous directory

**pwd** – Tells you what the current directory is (short for present working directory)

**ls** – lists the contents of the current directory

**cp** [source] [destination] – Copy a file from [source] to [destination]

**mv** [source] [destination] – Moves a file from [source] to [destination]

**rm** [filename] – Deletes the file named [filename]

**mkdir** [directory] – Creates a new directory named [directory] in the current directory

**rmdir** [directory] – Deletes the directory named [directory]

**chmod** – Changes a file attributions and properties (who has permission to read, change or execute it)

## The Terminal – On Linux Computers

This is pretty much where you'll be doing anything that doesn't require pointing and clicking and you'll be using it A LOT in programming courses (See Linux Commands section). To open the Terminal there should be a shortcut on the bottom bar or just in System Tools > Terminal. This terminal is exactly what PuTTY runs.

## MSDNAA

You...have the POWER... I mean access to MANY Microsoft products legally for FREE. Yes, FOR FREE. For example, you can download Windows 7, Vista, XP, 2000, OneNote, Visual Studio, MapPoint, Visio, and many more for free with your own MSDNAA account (login

## WIRELESS ON CAMPUS

details will be sent to your ECF email once the school year starts). Do take advantage of these programs because they can assist in being more efficient with your notes, presentation, lab reports, programming assignments and much much more! Oh and did I mention it's FREE (after paying your tuition)?

Please visit <http://ecf.utoronto.ca/ecf/> for more information.

UTORCWN, the University of Toronto Campus Wireless Network is accessible with any computer equipped with wireless technology. For extra information such as wireless coverage maps or other details, visit <http://www.wireless.utoronto.ca>.

To start, connect to the wireless network with the name "utorwin". The wireless WEP (password) for all wireless access points is "UToronto1home". Open a web browser, and when prompted to log in, simply use your UTORid and password. You should be connected after running a one-time virus scan tool. Enjoy!



The Faculty of Engineering's Office of the Registrar has set out a petitioning process to allow students to request for an exception to a university rule, regulation, or deadline. It gives students an opportunity to deal with unforeseen circumstances that impact their ability to sufficiently fulfill academic responsibilities. Accompany your petitions with proper documentation (i.e a U of T Medical Certificate).

Petitions can be submitted online at <http://www.apscc.utoronto.ca/portal/>, though a Petition for Consideration in Course Work will have to be printed and submitted to your professor.

There are three types of petitions:

## 1. A Petition of Final Examination

is a petition submitted because of a missed exam or issues that hinder you from performing on your final exam. Students are required to submit this petition within seven days of the student's final examination. If the petition goes through, it is unlikely that a student gets to re-write the exam. The faculty may use the student's term work to determine his/her final mark. It may also be possible for the faculty to propose a late withdrawal option, or an option to grant Aegrotat standing (AEG) to a student (carrying credit for the course, but the course does not contribute toward the student's average). Note: Aegrotat standing (AEG) will only be considered for students who have missed three or more finals.

## 2. A Petition for Special Consideration

is a petition submitted by a student to request for an academic regulation to be waived. Students should first consult their Departmental Counsellor before submitting this petition, since its scope is quite large.

## 3. A Petition for Consideration in Course Work

is a petition submitted by a student when he/she unavoidably misses any graded work. The matter should first be discussed with the instructor (and if necessary, submit a petition). The petition must be submitted a week after a student returns to class. This petition could be submitted, for example, if one were to miss a quiz because their design team had a major competition on the same day.

Submit this petition to your instructor directly. The form for this petition can be found on the petitions website.

For more information about petitions, and for the forms mentioned above, visit the Registrar's website at: <http://www.undergrad.engineering.utoronto.ca/support/registrar/petitions.htm>

# T-PROGRAM AND GPA

Your final marks will appear on ROSI (Repository of Student Information: [www.rosi.utoronto.ca](http://www.rosi.utoronto.ca))— as a percentage, and a letter grade (yes, we go back to the C+ and A- type of thing). You can also see the course average and rejoice in the fact that you're above average. Or not. Now, there's also something else called Grade Point Average (GPA), which we'll explain.

## Mark Conversions

GPA	Percentage	Letter
4.00	90-100	A+
4.00	85-89	A
3.70	80-84	A-
3.30	77-79	B+
3.00	73-76	B
2.70	70-72	B-
2.30	67-69	C+
2.00	63-66	C
1.70	60-62	C-
1.30	57-59	D+
1.00	53-56	D
0.70	50-52	D-
0.00	≤ 49	F

There is a Grade Point Value scale from 0.0 to 4.0. If you receive a mark below 50%, you will receive a 0.0 value (basically, you fail). And there are the mark brackets in between (similar to tax brackets, as many of you will have to understand in the near future)!

Now, your GPA is basically a weighted sum of these grade point values (weighted because you can have courses worth 0.5 or 1 credit, for example) divided by the number of courses considered in the calculation. U of T Scarborough has made an online GPA calculator available to students, or you can calculate it yourself (though considering course weights is tricky). Alternatively, ROSI will have your GPA calculated for you when all your final marks have been released.

If you haven't failed any of your courses, and your fall term, or "sessional" average is 60% or greater, then you are "promoted with a clear record" to complete the next session! In other words, you pass and you're allowed to continue the year in chaotic peace. As a bonus, and assuming you're taking a full course load, a sessional average of 80% or greater will get you a spot on the Dean's List (an honour for scholarly Padawans)! If you fall below 60% for the first time then you're on "probation". But you can get out of probation once you have 2 full course load semesters in a row with no repeated courses that each have a 70% average or higher.

So... what if you haven't gotten used to the feel of the Force? Don't worry, it's happened to a bunch of us, too. If your sessional average is between 50% and 60%, you are on probation, my young Padawans! But don't sweat it - it was bound to happen someday. Since we understand how difficult the training can be, the school will come save you if that happens! U of T offers the T-Program for first year students in which you can retake first year courses that you have failed (but only up to 3!). Depending on the situation, you'll be retaking courses you failed in either the Winter or Summer sessions, or both. Students who have dropped courses are also enrolled into these classes (since you still have to complete and pass all your first year courses sometime before going into second year). Students deciding to transfer from Engineering Science may also need to take courses that will be offered by the T-Program.

Your Engineering Calendar can be found online at [www.undergrad.engineering.utoronto.ca](http://www.undergrad.engineering.utoronto.ca) and will be your guide while travelling the cosmos of engineering. To see what grade point value corresponds to your final mark, or to read more about probation and the T-Program (because the information gets more complicated than this), you can consult this Calendar under the Academic Regulations section. You can also see any of the friendly counsellors at the First Year Office, located near the Galbraith Building lobby (don't worry, they aren't evil aliens or robots), for answers and assistance!

So good luck, young Padawans!

Sure, you could always read the Faculty Calendar, but this here, the anti-calendar, exposes the courses you'll be taking for what they truly are. These descriptions offer feedback and tips from upper-year students who have taken the courses, but if you're into the whole formal descriptions thing you can read Chapter 8 of the 2011-2012 Academic Calendar, available in the Faculty Registrar's office or online at [www.apsc.utoronto.ca/Calendars/2011-2012/Course-Descriptions.html](http://www.apsc.utoronto.ca/Calendars/2011-2012/Course-Descriptions.html).

## • **APS104 » Introduction to Materials and Chemistry**

This course is split into distinct sections that are two half-semester modules, each with their own textbook. The first part, chemistry, moves quickly, so make sure you attend lectures and follow what is going on; the textbook is complicated and borderline useless. This module covers gas laws, thermodynamics, and a bit of electrochemistry. There are a few content-based quizzes, a term test early on in the semester and a quasi-final during midterm season. The second module is almost all new material, except for a bit of atomic bonding covered in the first few lectures. Lectures can be a bit boring but the textbook is really helpful—it is selections from the textbook used for MSE101 so if you're looking to save some money make friends in other disciplines and hopefully they'll let you borrow theirs. The quizzes held during tutorials are easy marks if you show up, and the assignments (called labs) are tricky but at least somewhat interesting. The finals are very similar in structure and content to previous years'; they boil down to a few simple concepts and a bit of memorization.

## • **APS105 » Computer Fundamentals**

Computer Fundamentals is a course on C programming for TrackOne and ECE students. You will learn programming concepts and how they show up in the C language. The first part of the course is quite easy as it focuses on the simpler concepts of programming. It will start to get a little tough once you get to pointers and recursion. If you find yourself unable to understand any of the concepts and you are in TrackOne, do not go into ECE. If you find yourself unable to understand any of the concepts and you are ECE, keep trying and stay interested are the nicest things that I can say to you. There will be lab assignments to be done weekly and biweekly near the end when the assignments are bigger. Whatever you do, make completely sure that you do not copy someone else's code or let someone else copy your own code. When a case of plagiarism is caught, both the copier and the provider are punished. It will become frustrating sometimes because your program will not work and you may run out of time. If that is the case, make sure you get help from your TA or professor or an ECE friend. Although it is not mentioned in class, there exists a ferocious and vile beast in C programming called the segmentation fault. You will encounter one while working on this course, and it will feel as if you were Anakin Skywalker, trying to face both your duty and your emotions, but you must persevere. You must debug and not succumb to the dark side. Hours, even days may be spent in a constant state of fear for this abomination, but the rewards are at least a pass, which you do need in order to move on.

## ••••• **APS106 » Fundamentals of Computer Programming**

This is the programming course for non ECE's and is as a result slightly easier. If you did programming in high school this course will be a breeze for you but I would recommend periodically attending lectures so you understand what is going on. If you haven't then I would like to be the first to welcome you to the wonderful world of programming where you get an obedient and willing slave. You may think this sounds great but the joke is on you for this slave takes every instruction literally. Make sure you actually do all the labs as they will really help you out the midterm and exam, programming is all about a mindset that you can acquire with practice which will allow you to solve any problem.

## ••••• **APS 111 » Engineering Strategies & Practice I**

ESP is supposed to get you prepared for real life engineering problems by dividing students into groups and having them all solve the same design problem. The problem assigned is different each year and probably won't be very interesting. If you are ever stuck for ideas on what to do for your section I would recommend Google searching the key words from your design project as some groups post their completed sections on various sites for their team members to see. However plagiarism is bad (and punished which is much more important) so be careful about how much inspiration you take. Picture Master Yoda having a lightsaber battle with Mace Windu. Realistically this scenario has about as much to do with the course as many of the lectures do. The lectures are very boring but there is an associated attendance mark. However this mark only accounts for 3% of your grade and lectures are at 9:00 in the morning... So attendance after you learn about functions, objectives and constraints should be considered fully optional. No real knowledge is necessary for the quizzes and exams, just liberally apply common sense and a basic understanding of English.

## ••••• **APS 112 » Engineering Strategies & Practice II**

APS 112 is almost exactly the same as APS 111, the only differences being the project gets more interesting and the lectures get even less useful. Each group now gets a unique project with a client who may or may not be affiliated with the university. This project is the closest thing you get to real life experience in first year engineering so appreciate it even if you don't enjoy it. However, the lectures will seem very dull and almost irrelevant to the project you are assigned to as the professors try to address common issues across the couple dozens of projects in the course at once.

## ••••• **APS150 » Ethics in Engineering**

This will be the second year ever for APS150, so we're not sure if the faculty is going to change it up or not. If not much changes, then the course will consist of 7 online video lectures and biweekly tutorials for any (which you can get

away with not attending). Important things that you will learn: never plagiarize, always take responsibility, never kill anyone, etc. The material presented in this course is so important that the administrators have decided to give students one hour to write a 20 multiple choice question final exam. You **MUST** pass this exam; your future in U of T engineering rests on it, as it is the only form of evaluation you will ever get regarding the ethics and morals involved in your future career.

## • **APS191 » Introduction to Engineering**

### SEMINAR

This is the easiest course TrackOne's take in their first year, all you have to do to pass is show up to 9 out 13 lectures on time (being late counts as an absent). There is one lecture for each discipline where they discuss the program's curriculum and field, including job prospects and research possibilities. Towards the end of the course, the lectures cover miscellaneous topics such as Engineering Minors and the Faculty's Leaders of Tomorrow program. One lecture not to miss is the upper-year student's panel—it is a great opportunity to gain insight into TrackOne Alumni discipline choices and opinions. Just make sure not to miss or be late for more than 4 lectures because the last thing you want to do is have to retake a seminar about discipline choice **AFTER** you've already make your decision.

## • • • • **CHE112 » Physical Chemistry**

First of all, physical chemistry is not chemical engineering; it shows up in a lot of different (and sometimes unexpected) fields. So if it's not your forte, that's all right. This course is all about gas laws, thermodynamics, and a bit of electrochemistry. The textbook is really dense, but well worth the effort it takes to read it. In order to do well in this course two things are key: dimensional analysis and understanding the concepts. There is no way to guess or foresee what questions will appear on tests or examinations and memorizing practice questions with algorithmic approaches won't get you very far either. You really need to comprehend the theoretical components of the course and, if ever in doubt, go back to the plain and simple mathematical relationships and definitions. As dreadfully dry as this course can be, it's content is immensely practical in upper years.

## • **CHE113 » Concepts in Chemical Engineering**

This course is split into distinct sections that become two half-semester modules. Module I is a review of basic chemistry and an introduction to the field of chemical engineering. Lectures are super important and taking notes is necessary because there is no textbook. Fortunately, the quizzes are from the lecture content and are easy marks if you attend, mainly related to stoichiometry and such. The labs may not coincide directly with the lecture content, but they are not too difficult as long as you do the pre-readings. There are quizzes in the first 10 minutes of every lab, also based on the readings. This course serves as a great introduction to the prospective careers, fields, and streams that stem from chemical engineering. Module II is a basic introduction to circuits and electrical engineering. It introduces circuit components and various techniques for solving for unknown values in circuitry. The labs offer a practical approach to circuit building and help you to understand the theoretical on-paper problems. As in Module I there are quizzes in tutorials but they require a little more

— thought and concept comprehension. Even though you may feel that circuitry will never apply to your future, make sure to do lots of practice problems and don't fall behind! Both of the 'finals' for Modules I and II are relatively fair and are easier to study for because they only cover half of semester of content.

## .....CIV100 » Statics

Imagine a physics course where the sum of the forces always equals zero, so everything is either completely still, or torquing. This course is easy to do well in, but you do learn new things so lecture attendance is important. Despite the deceptively simple concepts, it is important to do a couple practice problems of each type of statically determinate scenario as the exams are just five of the trickiest problems they can construe (which are not really that tricky). The old exams are similar in difficulty and give you a good sense of your preparedness.

## • • CME185 » Earth Systems Science

This course is taken solely by Mins and Civs and will **rock** your world. The course guarantees a solid amount of enjoyment in the labs but forces you to sit through very boring lectures. There is a mountain of work that requires you to carefully survey your time so that you are not overburdened at a bad time.

## • ECE101 » Introduction to Electrical and Computer Engineering SEMINAR

This course is only for ECEs, and its main purpose is to get you all to stop thinking that video games and not showering for days is what life is all about. It is a series of introductory lectures into many different fields of study in electrical and computer engineering. This course will open your eyes and give you a perspective on how much there is out there waiting for you in the world. Unfortunately, the course does not introduce any girls to any ECE student. Sorry.

## ... • ECE110 » Electrical Fundamentals

Most people struggle through this course, but there are always a few who end up absolutely loving it. With this course, make sure you attend the lectures of a professor that works for you. Some focus on the theoretical content while others practically spend the entire lecture solely working through examples (but beware, most of these want student input and are not afraid to call on you!). ECE110 is split up into two parts: electromagnetism and circuit analysis. The electromagnetism part is quite tricky and some of the ideas are quite abstract. You will learn about Gaussian surfaces, Amperian loops, flux, magnetism and currents. If you do poorly on this part of the course, do not give up. Circuit analysis is, in terms of the quantity of theoretical content, the exact opposite of electromagnetism. The second half of the course is completely based on one equation that you have already learned in high school:  $V = IR$ . It is very possible to ace this whole unit simply by doing as many problems as possible. In addition, you get to create your own formula 'cheat' sheet for each of the tests and the final exam. There are labs that run for the duration of the course that are a significant portion of your mark, and will act as a natural mark raiser (so you won't need to be bell curved). Good marks for these labs will be easily obtained as long as you do your prep and finish them in the allotted time. However, in the case that you get a hard TA for your labs, you will have to put more effort and preparation in. Good luck!



## ••••• **MAT186 » Calculus I**

This is the first—and certainly not last—calculus course you will take in university. Lucky you for it's a pretty easy one. Most of the material is review or a continuation of topics covered in high school: limits and derivatives. Towards the end of the semester integration is introduced along with a few applications. It shouldn't be too difficult to keep up in this course as long as you follow along with the lectures and do the homework. The textbook is important but it's not the greatest, so use tutorials to your advantages if you're struggling—they're usually nearly empty and the TAs know their math. The online content can be a very good indicator of your preparedness for evaluations. The tests and exams are usually pretty similar to previous ones so make sure to practice with these in preparation, especially the ones posted by professors. After defeating this Federation droid, make sure you've still got your light saber to be ready Calculus 2!

## ••••• **MAT187 » Calculus II**

Congratulations on passing MAT186—your days of breezing through calculus are through. This course continues where Calculus I left off and barrels through integration techniques, differential equations, polar curves, vector calculus, and closes with sequences and series. Lectures can be boring as all heck, but they're better than the textbook so keep up your attendance—either way just make sure you're following along and doing every practice/recommended/suggested/optional problem you can, exam review is not enough. Throughout this course, your best friend will continually be Wolfram Alpha. ([www.wolframalpha.com](http://www.wolframalpha.com))

## ••••••• **MAT188 » Linear Algebra**

The best way to describe linear algebra is like math except without problem solving. The course focuses on the memorization of algorithms that allow you to solve any given problem in the course. Due to the repetitiveness of the algorithms, Wolfram Alpha will be your primary tool in solving matrices for your online homework. The exams are very similar year to year so memorizing the solutions practically guarantees you a good mark in the course. Though the course may seem boring and repetitive while you are going through it, you should be grateful that you had to take it. The concepts and tools that you learn in the course will be useful during other courses and in later years.

## ••••• **MAT196 » Calculus A**

Calculus A is only for Track One and ECE students. It is more theoretical than Calculus I, which also means that it is more fun. Many of you will already know differentiation and some will even know integration, but that is not good enough. Everything that you thought you knew about calculus will be derived from basics. Limits will be proven using inequalities via the dreaded delta-epsilon proof, and then continuity will be explained using limits, and then derivatives from limits and continuity, and finally Riemann sums from...who knows where. Make sure you know the theorems that are taught and make sure you apply them to justify your answers on tests. Calculators are not allowed for this course but do not be scared; focus less on getting answers and more on making sense. A solution filled with correct justification and no answer is significantly better than a correct answer with no justification.

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## SEMINAR

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This course serves as an introduction to Materials Science for most students in First Year. It covers the basics of molecular structure, chemistry, phase diagrams, engineering stress and strain and fracture mechanics--which may all sound obscure and unimportant but are very key ideas in engineering. There may be a lot of diagrams, but don't let phase you. Get it? Diagrams--phase--phase diagrams? Nevermind. Anyways the labs (however few there are) are easy marks as long as you follow instructions. This course will (probably) be your first introduction to a bell-ringer evaluation. The midterm for this course is set up in stations and you are given 30 seconds to answer each question. At the sound of each bell toll you proceed to the next station and question. When they do happen, in-class demonstrations make lectures really exciting. The tests are really, really hard, so have fun.

## **CIV102 » Structures and Materials - An Introduction to Engineering Design**

Oh the mighty CIV102 - often characterized as a legendary course it has been taught by Professor Collins for more than 30 years. In this course you'll learn everything from equilibrium forces to designing bridges, all while listening to some of the most fascinating stories of the evolution of Civil Engineering, Robert Hooke, and the not so liked: Isaac Newton. CIV102 is also known for its "notebook", a specific notebook you'll need to buy from the Engineering Stores and are allowed to bring to the exam. For all those who weren't use to taking notes in high school, tough luck, as in this class you'll need to be clean and tidy and take proper notes so you can quickly refer to them during the exam. Along the way you'll get various problem sets, where 1 – 2 questions require outside the box thinking and quizzes. Worry not however, if your exam mark is higher than your quiz + PS + exam mark, it will count for 100% of your final grade. Even though that could boost your mark tremendously, that doesn't mean you should slack off the entire year then expect to do ridiculously well on the exam. It's been tried, and has failed. And don't think you're gonna be the trailblazer, either.

## **CSC180 » Introduction to Computer Programming**

For those of you who can't interface with computers, this course is for you. Throughout the Fall Term, you'll learn how to speak R2-D2's language starting with the bare basics. The challenge comes not from learning a new language (Python) as it's actually broken English, but getting the computer to obey your commands. Learn your syntaxes early as the final exam will be open book and will focus more on theory and understanding. Also be patient when debugging your projects for errors and if you can't get parts of it to work, write documentation and earn marks that way. The pros are really friendly too as they are patient enough to help go over difficult concepts in office hours and even during labs.

## **CSC190 » Computer Algorithms, Data Structures and Languages**

This is the follow-up course to CSC180 that occurs in the second term. Beware, students who took CSC192 who will spend half the time gloating that they're done with programming. Nonetheless, you'll stop learning Python from CSC180 and begin to learn C, one of the most unfriendly languages as it's much more limited than Python. Your projects will be slightly more complex so please start earlier to avoid fumbling at the 11th hour.

## **CSC192 » Computer Programming, Algorithms, Data Structures and Languages**

Contrary to CSC180, this is a fast paced and advanced introduction to Algorithms and Data Structures. In 192, you'll be immersed in a class with Engsci's future ECE's, Microsoft Interns, school data admins or just complete programming noobs who want a challenge (man, I don't know how those guys pulled it off). While this class is portrayed as being extremely difficult for those who do not enjoy reading books on processors or know at least 5 programming languages, it is not impossible (and possibly not even hard) to obtain a decent mark (Hooray bell curve!) in this class if you've taken one or two computer courses. You'll think having to be R2D2 and C3PO at the same time as your exams require you to both write and translate code fluently. Some even say 192's initial fast paced start is worth enduring instead of having to worry about trees and pointers in your second semester when

# ENGSCI ANTI-CALENDAR

all the calculus, algebra, and physics is new stuff. Best part is: You'll receive a free elective for your bravery and hard work in the first semester.

## ESC101 » Praxis I

Yes, I know, you've all been asking yourselves, what is Praxis? Truth is, even after finishing praxis there is no universal definition for the course. In essence, Praxis is an engineering communications course where you will touch upon all the different aspects and vocabulary of the world of engineering. All in all, the course is pretty incremental, building up from tearing down a home appliance to solving a problem on campus. Along the way, you'll do various written reports and oral presentations while sacrificing other marks to finish your praxis work load. Best part about praxis? You need to blog for marks... so all you people who hate writing... tough luck, this class will really give you a hard time. In sum, by the end of Praxis you'll find yourself either loving this class or hating it, it really depends on who you are (and how well you do). Oh yeah, and there's a pretty inexistent bell curve in this class so don't count on it.

## ESC102 » Praxis II

When you get to the second semester, you'll find yourself again immersed in Praxis except this time your project is city centered, with all your efforts focused on getting ready for the Open Showcase. In Praxis 2 you pretty much need to go out there find an engineering problem in the city and write a Request for Proposal (RFP). After writing the problem statement (in all its 20 page glory), you'll be assigned one of 6 RFP's to solve and present in April. While prototyping, making your poster, writing your RFP or just doing some research, you'll find yourself pulling all nighters, sacrificing other grades and your social lives. The best part is, when your high school friends ask you why you are pulling all-nighters, you can't just blame Praxis, because no one knows what it is! Oh and btw: While the lectures seem to just be the profs rambling about common sense, they do give small hints here and there and going to them is definitely worth it (plus, they are the most interesting of pretty much all the courses you'll be taking).

## ESC103 » Engineering Mathematics and Computation

As a prelude to MAT185, you will be learning about the more concrete aspects of vectors, matrices, complex numbers and numerical methods like Euler's method. You will also be learning how to use MATLAB which could be a big challenge for those who have no programming background, so be sure to brush up on the required readings. This course will also have exams that will involve tedious calculations that are chain-linked so avoid careless mistakes as one misstep will crash your whole work! Usage of vectors will sometimes need mental 3D visualization; too bad we don't have any holographic briefing systems.

## ECE159 » Fundamentals of Electric Circuits

One of the most mind boggling courses and where you will learn how to analyze circuits along with all the components that make one up. This course also uses the calculus you learned in MAT194 so don't just dump it into the trash compactor of the Death Star because you'll regret having to enter the compactor to dig it all out again. The quizzes and exams are notoriously difficult so just stick with the basics: write down the equation (you actually get points for this!), show all work neatly, use rulers to draw the axes for the graphs and simply wait for the bell curve to work its magic.

## **MAT185 » Linear Algebra**

The entirety of MAT185 is summed up in a single book written by the course professors and, yes you could read the entire 10 chapters and avoid lecture, but it's not recommended. In MAT185 you will learn everything from proving  $y + x = w + x$  to finding the basis of vectors. For those who aren't really good with theoretical concepts and proofs, this course could be a challenge, because that is what all the test questions involve. Go to tutorials too because you will not be able to find answers for example questions, resulting you to have to ask your TA about it.

## **MAT194 » Calculus I**

In this course, you must unlearn what you have learned. At first sight, it will seem like a review of basic derivatives and integrals that you learned in high school. However, the lecturers will drive the concept of rigorous proof down your throats on everything from the concept of limits to basic differential equations. You know, the kinds where you will have absolutely no practical use for, but the profs show it to you anyway as a point of "interest" (i.e. DELTA EPSILON). Calm down, as mark adjustment is very large in this course.

## **MAT195 » Calculus II**

The sequel to the above course, and one that will take you on an emotional and mental rollercoaster like the Empire Strikes Back. Lots of proving as well but this time, you'll be taking things to FAR FAR AWAY with sequences and series. You will also be introduced to parametric and polar coordinates and how calculus works in that realm (turns out to be very similar but computationally tedious). The midterms and exams are going to be some of the toughest you'll write in first year. Don't even expect to complete the exam - they are designed to not be finished. Mark adjustment is even greater for this subject than in MAT194.

## **MSE160 » Molecules and Materials**

MSE160 is simply MSE260, previously taken by second year Engscis but moved to first year for your class! The course is split into two quarter courses: Chemistry and Crystal Structures. The first half of the course is mainly grade 12 chemistry review covered more in depth with some added concepts and theories here and there. You'll find the newer theories harder to understand, but if you did alright in grade 12 chem, this part of the course should be easy. Crystal Structures becomes slightly harder. The textbook, "Crystals and Crystal Structures" by Tilley is very helpful and Prof. Perovic tends to cover the material VERY slowly, so it's a good idea to attend class for this part of the course so you don't waste your time learning the material on your own later. Also, make sure to attend the lectures for the random material that isn't covered in the textbook cause it can get confusing. Other than what I have covered, MSE160 should be a fairly chill course.

## **PHY180 » Classical Mechanics**

Probably the only course in first year that is demonstration-heavy. This course will take you on a review of high school physics, albeit at a slightly more challenging level as the midterms and finals involve theoretical problems (no numbers in them) so you have to leave everything in annoying variables. The problem sets are relatively easy when you do them in groups. Take extreme care to the lab reports you write up because you get assigned to a marker at the start of the year and he/she has idiosyncrasies that can work for or against you.



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EPISODE I

# ENG SOC

## Mission Statement

The University of Toronto Engineering Society, also known as EngSoc, is the student government for students at Skule™ — the Faculty of Applied Science and Engineering at the University of Toronto. EngSoc manages Skule™ services and provides club funding, professional development, and extracurricular opportunities to over 4800 full-time members, proudly continuing the traditions and storied history of Canada's oldest and largest engineering school. Founded in 1885, it is the oldest Engineering Society of students in Canada.

## Who Are We?

What's the best part of Skule™? You! And here at EngSoc we work hard to keep bringing you services and opportunities to keep your stay here at Skule™ interesting. Composed of the 6 officers, 21 Board of Directors, and 72 Council members, the Engineering Society is the student government truly run by students for the students. Our mission is simple: provide services that are of value to all our members (i.e. you) and further create opportunities for our members to give back to Skule™ and the community!

## But how do I get involved?

We support and endorse over 70 student engineering clubs that span all sorts of interests and activities, as well host multiple events throughout the year, including Hi-Skule, You're Next Career Fair, Godiva Week, UTEK, and of course Frosh Week! Whatever tickles your fancy, we sincerely hope you find your niche here at Skule™ and get the opportunity to get involved and do what you love to do!

## What else does EngSoc do?

Be sure to take advantage of all the great things we have to offer! Some notable services that we provide are:

- Engineering Society Office (<http://my.skule.ca/>)
- Engineering stores (<http://stores.skule.ca/>)
- Tutors (<http://tutors.skule.ca/>)
- Courses database (<http://courses.skule.ca/>)
- Toike Oike and The Cannon newspapers (<http://toike.skule.ca/> & <http://cannon.skule.ca/>)
- Suds
- Hard Hat Café
- Weekly Digest

## Engineering Society Office

Run by our lovely business manager, Rhonda Meek, the EngSoc Office is located in the basement of Sandford Fleming near the pit, right in the heart of Skule™! Here you will find the Officers in their natural habitat... But don't worry, they won't bite (even if you ask them to) so drop by and say hello.

For more information about Skule™ and the Engineering Society, check us out at [www.skulepedia.ca/wiki/Engineering\\_Society](http://www.skulepedia.ca/wiki/Engineering_Society) or visit the Skule™ portal at [www.skule.ca](http://www.skule.ca)

# PRESIDENT'S MESSAGE

Welcome to Skule™!

Skule™ – Everything and all that encompasses Engineering at the University of Toronto, from the students to the professors to the alumni, from the Mighty Skule™ Cannon to the Lady Godiva Memorial Bnad, from Orientation Week to the Iron Ring Ceremony and from me to you. You are now a part of the Skule™ community.

Most of you are entering your undergraduate career after four years of high school which may have felt like the best years of your life. I do not doubt that you have learned a lot, made great friends along the way and are still reminiscing about the experience. I also do not doubt that the last four years were the best of your life... to date.

As the incoming class of 1T5 in the Faculty of Applied Science and Engineering at the University of Toronto, you are embarking on a long, tough, exhausting journey that will also be short, insightful and life-changing. If you pick this book up again in four or five years' time and the above statement does not apply to your undergraduate experience, I can confidently say: you did it wrong.

With 138 years of history, our faculty encompasses a rich history and brings together some of the brightest students across the country and around the world. You will be immersed within a group that will do great things in the future. This does not mean you should be depressed that you may not be the smartest in your cohort anymore, nor does this give you the right to be arrogant or pretentious to others.

I personally believe the most important experience you will gain is through working with and learning from your peers. Your undergraduate journey should not only be defined by the engineering education you gain through lectures and professors; it will also include many lessons you will learn throughout your time here. Many engineering graduates do not go on to become "engineers." This is not because they failed out. It is because they went on to become lawyers, financial advisors, doctors, entrepreneurs, politicians and more importantly because the goal of your undergraduate career should be to better understand yourself, your core values and your beliefs.

This may be an uncomfortable adventure for some of you with new faces, a new environment and for some, a new country. But if you are to take anything away take this: You learn the most when you throw yourself into an uncomfortable situation. If you always strive to learn and better yourself, there is much to gain from this community and atmosphere we call Skule™.

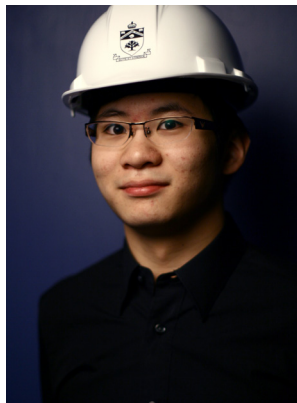
Keep this in mind and make the most out of this outstanding opportunity starting with Orientation Week. Get out there, get purple and have fun.

All the best,  
David Cheung



# OFFICERS' MESSAGES

## VP Finance - Jonathan Ng



Hey there incoming F!rosh!

How's it going? Congratulations on being accepted into University of Toronto Engineering! Whether you're a gearhead Mechanical, circuit-solving Electrical (like me!), or indecisive TrackOne, Skule™ welcomes you with open arms. This is the beginning of a new chapter in life, so make the most of it!

I'm going to tell you one thing that I was told during my F!rosh Week that has stuck with me until now: Get Involved! You are going to be told this again and again (and again), for good reasons.

Whether you want to be part of the Lego Club, play an instrument in our stage band, or showcase your abilities as a stage performer in Skule™ Nite, there IS a place for you! When all is said and done, you aren't going to remember which midterm you failed from which course, but you WILL remember that one epic prank.

As your Vice-President Finance, it is my duty to manage the Engineering Society budget and take care of day-to-day financial duties. I also manage the Engineering Stores (home to the cheapest first year textbooks), the Hard Hat Café (home to the best snack food on campus), and Suds (home to many of your future memories and cheap beer on Friday nights). All of these are conveniently located in the Sandford Fleming atrium.

If you have any questions about Finance, the Engineering Society, or life in general, shoot me an email at [vpfinance@skule.ca](mailto:vpfinance@skule.ca), or give me a shout in person. Once again, welcome and good luck in the future!

## VP Communications - Maegan Chang

You are all currently presented with a great opportunity and I want all of you to make the most of it. You have chosen to come to the University of Toronto, one of the greatest schools in the world, why not take this chance to become the best you can be? This is your time to take all of your past experiences and build on them and learn from them.



In the summer before starting Skule™, I thought a lot about what I wanted my university experience to be. It was from my reflections of high school that I decided that I would no longer let personal doubts stop me from doing what I wanted to do. I felt that there were a lot of things that I missed out on simply because I was too shy, or too doubtful of myself to do them. It was my new determination that led me to run for TrackOne Class Representative in September of first year. I lost that election. However, that didn't stop me from getting caught up in Skule™ life and continuing to do everything I always wanted to. I have run in two elections since then and have won both. I can't for sure say why I won, but I do know that if I had not found the courage to run in the first place it would never have happened. This is a great time for all of you to think about what you want from your life. I encourage you all to simply do what you want to do and be who you want to be. From that I hope you find happiness.

## VP Academic - Freddy Chen

In university, you will meet a lot of different people. The one thing that we all have in common is that we're here to learn, but not just in terms of academics.

During my time at Skule™, I've learned the importance of balancing academics and life. I am telling you now, you are going to regret your university experience if you study all day long. As the Vice-President Academic, I am advising you not to study all day. It's probably one of the worst things you can do when you come to Skule™. A large part of becoming successful throughout university is realizing that marks are not everything.

You're essentially going to be living with your classmates for the next four years doing all sorts of things together; staying in labs, going through problem sets, working on projects, making mistakes, grabbing food, sleeping during lectures, whatever. Get to know the people around you and make connections! You make lifelong connections here at university, so don't squander that opportunity away studying all the time.

That being said, you will still need to do well in school to pass. But don't stress! Take everything one step at a time, and never be afraid to ask for help when you need it. Sure, your question might be stupid to other people, but it's so much more important that you understand things.

I will be here for you and I will try my best to make your academic experience the best that it can be. You can always come talk to me if you ever need some help with academics, but just remember: there's a lot more to university than just academics, and I want you to go experience it!



## VP External - Gordon Tang

Welcome to Skule™!



You've entered a whole new realm of opportunity! There's plenty of fun and excitement in store with so many clubs, student groups, sports, spirit events, and many, many more! I strongly encourage you to try anything that interests you and actively participate in campus activities. Make yourself at home! During the course of your first year, you will find something both enjoyable and meaningful at Skule™.

External to our amazing Engineering Society, there are awesome conferences and inter-university events organized by the Canadian Federation of Engineering Students (CFES) and the Engineering Student's Societies' Council of Ontario (ESSCO). These are great opportunities to meet members of other engineering societies, learn about their cool traditions and best practices, and develop new initiatives. Through professional organizations such as Professional Engineers Ontario (PEO) and the Ontario Society of Professional Engineers (OSPE), we can learn more about engineering licensing and advocacy.



# OFFICERS' MESSAGES

More importantly, if you win at the University of Toronto Engineering Competitions (UTEK), you can compete at the Ontario Engineering Competition (OEC) and potentially the Canadian Engineering Competition (CEC)! Also, be on the lookout for the First Year Integration Conference (FYIC) at McMaster in January 2012!

## VP Student Life - Owyn Notario

Welcome to Skule™!

You are about to become a part of one of the most academically rigorous undergraduate programs offered at U of T and you will undoubtedly undertake many trials that will challenge you academically and emotionally. But further, you are also about to become a member of the Skule™ community, and that is something extraordinarily invaluable.

The opportunities that you will have as not only a U of T student, but as a member of Skule™ are found not only in the many things you can get involved in, but in the people you will get involved with. Your peers from around the world are undoubtedly the single greatest resource we have here at Skule™ and are truly what will define your stay here at U of T Engineering. Having been here for 4 years, I have witnessed what amazing things we can do when we connect, concentrate, and collaborate to pull off simply outstanding things, and I hope that each of you will have the same experience.



My challenge to you is to find that something that you love, and not give it up throughout all the trials and tribulations you will face. And if you do that, you will be presented with opportunities to not just become a better person, but to do what you enjoy the most all the while.

Congratulations on officially becoming a member of Skule™!

## Business Manager - Rhonda Meek



The Business Manager manages the day-to-day operation of the Engineering Society offices and ensures that the offices are running efficiently. The manager is responsible for all processing, recording, maintaining and monthly reconciling of invoices and payments and the statistical and financial analysis of all funds under the Engineering Society umbrella, including Engineering Stores & Hard Hat Cafe and the Engineering Student Levy Fund; ordering supplies; room & AV bookings and ensuring capital assets are well maintained. Basically, if you ever need to use some of EngSoc's services (e.g. projector rentals, cheque reqs), Rhonda can help you out.



## Chemical Engineering Club

Hey Chem 1T5s! Welcome to Chem Eng at UofT! We are your official discipline club, more informally known as "Chem Club". Our motto for the year is "to promote strong bonds with great reactions!" We organize several exciting social events throughout the year, most notably: two BBQs during fall (drop by to try our unique, one and only Wallburger!), Book Exchanges (free pizza served!), our annual Dinner and Dance, Charity Talent Show and much much more! We also have a robust athletics organizing community - this year we plan to have basketball, soccer, squash, tennis, table-tennis and cricket tournaments as well as a ski trip during February. We always look for honorary executive members for our council as well as volunteers for our events, so there are several opportunities to get involved and increase your extra-curricular participation. If you have any questions, feel free to email us anytime at [chemclub@skule.ca](mailto:chemclub@skule.ca) or visit our website: [chemclub.skule.ca](http://chemclub.skule.ca). We look forward to welcoming you all this year!

## Civil Engineering Club

Hello to the class of CIV 1T5, welcome to Skule™! You are about to embark on the best 4 (possibly 5) years of your life. CIVCLUB is here to accommodate the needs of civil engineering students both academically and socially. We host frequent social events (we call them "SMOKERS") that allow you to meet students from your class as well as upper years, these SMOKERS typically have cheap food and BEvERages for you to enjoy. SMOKERS are just one of the fun social events we hold, every year CIVCLUB holds a dinner dance, as you may have read this is a chance for you to dress up, and enjoy some fine beverages and food with your classmates and professors! Finally, you can participate in the Great North Concrete Toboggan Race, (yes you can make a toboggan out of concrete!). These are only some of the events we hold throughout the year.

Our Common Room is located on the 1st floor of Galbraith (GB 123), there are tons of comfy couches (good for napping after those long nights of studying), a foosball table, microwave, cheap pop and relocated street signs from around the province. Finally CIVCLUB is here to help you, so if you ever have any suggestions for social event or if you have any questions about Skule™, clubs or anything at all, come see us in the CIVCLUB office located in our common room or email us at [civclub@skule.ca](mailto:civclub@skule.ca)

## Electrical and Computer Engineering Club

Hey F!rosh, welcome to the dark side! As an ECE student, you're automatically a member of ECE Club. We're dedicated to bettering the student experience by providing you with awesome common rooms, career and professional development info/events, smokers (informal get-togethers with cheap food and drinks), game tournaments and our annual Super-Classy Dinner Dance. Keep an eye on your ECF email for updates.

Important stuff to know:

The common room is located in the basement of Sandford Fleming (SF for short), next to the elevators. Drop by, relax, play some foosball or video games and enjoy the cheapest pop on campus. The access code will be emailed to your ECF.

We also maintain a study hall in Bahen, room BA1120. Roomy tables and power outlets abound! Your shiny, new T-Card grants you access.

The ECE Club Office is located right next to the SF common room. Stop by or send us an email ([ececlub@skule.ca](mailto:ececlub@skule.ca)) if you've got any questions about your time here at Skule™, or want help, or funding, to run an event for your class (for example, 1T4's made sweet class t-shirts that we helped fund).

# DISCIPLINE CLUBS

Check out our site ([ece.skule.ca](http://ece.skule.ca)) for event updates, ECE anti-calendar and ECE swag for sale (hoodies, shirts and patches!).

Finally, we will run elections for 1T5 Comp and Elec class representatives in September. Class Reps are the formal position for F!rosh on ECE Club and, more importantly, act as your voice to the faculty and Eng Soc.

May the Force be with you, Young F!rosh.

## Engineering Science Club

You hopped onto your rogue X-wing, and now you will be taken further into the realm of the unknown and excitement than you ever thought possible! Compared to the other disciplines, EngSci may be a few parsecs further into deep space than you expected. You will learn to master, and calculate, the Force like no other. But as Qui-Gon Jinn said, 'It will be a hard life. It will push you to do what you think you cannot do.' Problem sets are harder to kill than a Colo Claw fish dwelling in the porous caverns of the Naboo Core. You will not like many of the courses, but you will like them more than you liked Jar-Jar Binks. But relax, you have plenty to look forward to in first year besides fighting fleets of problem sets and labs and mid-terms and quizzes sent from the Evil Empire of Profs and TAs. You can always take a break from the resistance with some space-soccer (READ: Foosball) and space-video games (READ: video games) at the EngSci Rebel Headquarters. And remember to grab your tickets to the EngSci DinnerDance and Ski Trip! They are guaranteed to relieve you of all the suffering during this first year of your fight for freedom. And just when you feel like your warp coils have overheated, you'll be presented with the Wampa of all Ice-Wampa's: Second Year! But don't worry, after first year, Engineering Science will be an easier cake walk than shooting womp rats on Endor.

## Industrial Engineering Club

Hello Industrial Engineering students, and welcome to your first year at Skule™! We, your faithful Indy Club, are here to provide you with whatever we can to make your next 4 (or more) years the best they can be. To that end, we provide locker space, helpful course materials, professional development courses, and Indy paraphernalia, as well as being your representation on all matters academic. Also, we organize a slew of events, which are a great chance to meet other Indy students in your year and higher as well as gain tons of other good stuff from the experience! Some of these events include textbook swaps, barbeques, the annual MIE coffeehouse/talent show, and the wildly awesomely mind-blowing MIE Dinner Dance! To find out more, just contact [indy@skule.ca](mailto:indy@skule.ca), go to [www.indy.skule.ca](http://www.indy.skule.ca), or better yet, become part of the magic by running for class rep in September!

## Mechanical Engineering Club

The Mech Club is your chance to relax, meet fellow mechs and have a blast!

Come to the MIE Common Room to play some ping pong, challenge someone in a foosball match, play video games or just hang out and meet your fellow mech. Join us during your lunch break; there are lots of chairs and tables and most importantly MIE ONLY microwaves for your lunch!

We have all kinds of awesome events planned out for you, from cheap bbqs, to a fancy dinner dance, to book swaps, to a ski trip, to pick up sports...the list never ends! There's always something at the mech club for you to enjoy!

Have any ideas, suggestions, questions, or just want to get involved? Give us a shout at [mechclub@skule.ca](mailto:mechclub@skule.ca)!

## Mineral Engineering Club

Hello NEW fellow MINs! MIN is the smallest of the disciplines, which makes us one big, happy, rock loving family. Our home is the MIN Common Room (aka the Rock Lounge) located on the first floor of Ye Olde Mining Building. Make sure you stop by and visit us: we're a friendly bunch of people who can help you with assignments, tests and buying textbooks; or just come and chill with some upper years. MIN Club puts on some awesome events over the school year including: a trip to Wonderland, Monster Jam (awesome Monster trucks racing and don't forget about Robo-saurus!), the annual exclusive MIN Dinner and Dance (last year we went to an all-you-can-eat Brazilian Steak House, yum), and the highly anticipated annual MIN Kegger.

MIN Club also hooks you up with FREE industry events; these include fancy dinners, many open bars, and FREE SWAG. Make sure you swing by the common room and come out to MIN Club events, we promise you'll have an amazing time away from the books! If you want to be part of MIN Club, make sure you run for MIN Club First Year Class Rep!

## Materials Science and Engineering Club

On behalf of the Materials Science and Engineering Club, we would like to welcome you to the sheer awesomeness that is U of T Engineering. By accepting your offer from MSE, you are now an official member of the MSE Club. Also by association, you are inherently gifted with special powers that probably make you better than those in other discipline clubs.

Simply put, MSE Club (a.k.a the most epic discipline club to ever exist in the history of Skule™) is the most epic discipline club to ever exist in the history of Skule™. Our mandate is help facilitate a positive student experience for all MSE students both socially and academically. Socially, we run events such as smokers, textbook exchanges, game nights, BBQs, the famous Ping Pong tournaments, sports and most importantly, our dinner dance and iron ring celebrations. Academically, we serve on the Faculty Council with various stakeholders in the MSE Department to voice your concerns with regards to the curriculum. MSE club also represents your interests in the Engineering Society (EngSoc), our student government.

If you ever need to find us, we'll probably be in our common room, which is located in the Wallberg Building, room WB143. It is decked out with comfortable leather couches, a Nintendo Wii, a ping pong table, a foosball table, a chalkboard, and a ton of tables. It's also decked out with upper years that are always willing to help you out with any of your first year homework / concerns. Regardless, your best bet to find out more about us would be to visit our website to [mse.skule.ca](http://mse.skule.ca) or search MSE Club on Facebook for our group!

## TrackOne Committee

Hey 1T5s!

A TrackOne? Excited to join the dark side that has more than just cookies (but also lots of free food)? Then you are already part of the TrackOne Committee!

Not a TrackOne? Reading this and want to join the dark side that has more than just cookies? Hang out with some of the friendliest engineering students at UofT and you'll find yourself having more fun than imagined possible!

The TrackOne Committee is the group of TrackOne F!roshies making things happen for the TrackOne Class—that's you 1T5T1s!! It is also the committee that makes TrackOne notorious for its ability to have the most awesomestastic-first-year-fun known to have ever existed. AND. Although F!roshies aren't normally given money to play with, TrackOnes have full control over a fund to play with. (Remember, you have no direct group of upper years to tell boss you around, so you call all the shots!) Of course, you'll always have TrackOne Alumni to help

# DISCIPLINE CLUBS

and support you should you need anything, because that's what we do!

Some ideas to get you going (and what the 1T4T1s had a lot of fun doing!): study groups, game of Assassin, gift exchange, EightBall (the T1 semiformal), t-shirt designs, movie hangouts, sporting events (amongst yourselves or against other disciplines!), pranking (talk to the 1T4T1s to find out what we did as our prank!!), common room redecorating (that's in SF 3213). And this is just the tip of the iceberg!

You are the group of Skuligans with the widest range of interests and skills (hence your indecisiveness) so be excited about amplifying your potential. Get to know each other and your class, because you're going to make life-long friends in TrackOne. If you have any questions, don't even hesitate to shoot me, last year's TrackOne Class Rep, Teresa Nguyen, an email at [teresadt.nguyen@utoronto.ca](mailto:teresadt.nguyen@utoronto.ca)!

## HARD HAT CAFÉ

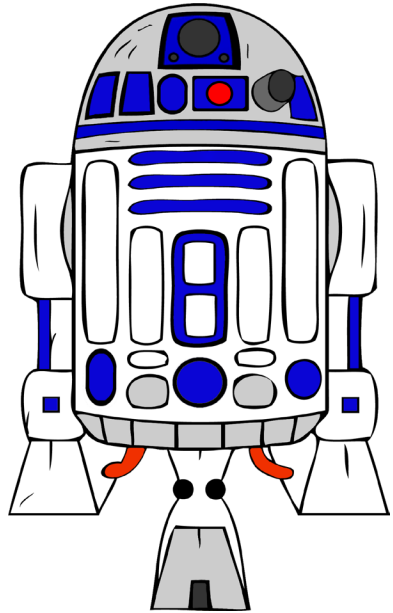
Circle the most correct answer. I am:

- a) Hungry
- b) Thirsty
- c) Bored
- d) None of the above

If you answered a) or b), then you should hit up the Hard Hat Café. If you answered c) or d), then you should hit up the Hard Hat Café as well!

Hard Hat Café is a cafeteria located right in the Atrium of the Sandford Fleming building, which is where all of us engineers live! We are a student-run Cafe: by the students, for the students. Our main goal is to sell to you, engineering students, cheap food and drinks (lots of them!), satisfying your appetite.

If you are stuffed, full, satisfied, neutral, hungry, starving or famished, we have what will delight (or in extreme cases, replenish) you! We offer you food, ranging from candies and snacks to full meals that will definitely please you, not to mention, at a CHEAP price! Then mix it all with a drink!



You MUST drop by the Hard Hat Café in Sandford Fleming's Atrium, whether to grab a meal or pizza, coffee or a cold drink, or maybe just stare at the employees' face; we love the attention.

PS item suggestions are ALWAYS welcome and appreciated : )

## Club Dinner Dances

During the Skule™ year, each discipline has their own dinner dance. These dances are semiformal and are a great way for you to relax with your new found friends and not think about your pile of books and assignments. If you are the adventurous type, don't be afraid to get a feel for the other discipline dances as well. You get to meet a lot of new people and can gloat about how much better your discipline dance was!

## Cannonball

Nothing says "We'll miss you, Lady Godiva Week" like a dazzling semiformal packed with all the friends you've made during your first semester at Skule™. That's what the Cannonball is. Imagine prom, but a googolplex times better. You know that awful feeling you get when the best week of your life is over and to top it all off, you need to go pick up back-to-school supplies? Yeah, we all get it, and the only cure is the Cannonball. This may just be better than your wedding, graduation, birthday, and birth, combined. A.K.A. the best night of your life, or your money back, but not really.

The venue will be so brilliant, you'll be seeing stars. The food will be so delectable, you'll unsuccessfully try to re-create it at home. The Stage Band will be so bumpin', you'll be grooving until the Lady Godiva Memorial Bnad arrives. If we're lucky enough to have it, our beloved mascot will be so loud, you'll smell it. And when it's all said and done, nostalgia will set in, followed by many months of depression. Cannonball 1T2. Be there. Or Be Squared.



## Gradball

This dazzling dance is not only for graduating engineers, in fact all engineers can attend Gradball (yes even you silly F!rosh!). Everyone enjoys the snazzy atmosphere and congratulating the graduating class with special awards given out to deserving upper year students. Much like the other dances, Gradball is usually crashed by some certain noise people/mascots.

## S-Dance

If you want a cheap and awesomely fun night, and want to listen to S Club 7 nine times in one night, then this is the dance for you. This dance is hosted by the Engineering Athletic Association, but even if you did not play on any teams this dance should not be missed. Athletic awards are given out and there may or may not be certain engineering groups that show, this being the last dance of the year and all. Oh and did I mention you get to keep the glasses?!

## THE CANNON

December 2011, Volume XXXIII No. 1

Serving University of Toronto engineering students since 1978.

### FEATURE SERIES: HOW TO IMPROVE THE UNIVERSITY



The University of Toronto has been a source of pride for its students. The UofT and its faculty have a long history of academic excellence, and its students are known for their hard work and dedication. The University of Toronto is a place where students can find a sense of community and belonging. It is a place where students can learn from the best professors and staff. It is a place where students can grow and develop as individuals and as professionals.

There are many things that make the University of Toronto a special place. One of the things that makes it special is its location. The University is located in the heart of the city, and it is surrounded by some of the best architecture and art in the world. Another thing that makes it special is its faculty. The University has some of the best professors in the world, and they are dedicated to their students. Finally, the University has a strong sense of community. The students and staff of the University are proud to be part of the UofT, and they work together to make it a better place for everyone.

So, if you are a student at the University of Toronto, you know that it is a special place. You know that it is a place where you can learn from the best professors and staff. You know that it is a place where you can grow and develop as individuals and as professionals. You know that it is a place where you can find a sense of community and belonging. You know that it is a place where you can be proud to be a part of.

#### Upcoming Events

December 7-21

Exam!

Jan 10-14

Condon Week!

Jan 6-7

Iron Dragons, Info Session

Nov 15

Condon Week!

Jan 10-14

Condon Week!

Tests then until March 25

CLAS Learning Resources

27-28 March 12-20

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Greetings young Padawans! Welcome to this new world of UofT Engineering, the most prestigious engineering school in Canada. Congratulations, you will now be spending all of your time learning from the best, meeting incredible people and making lifelong friends.

Who am I, you ask? No, I am not a Jedi or a Stormtrooper, heck, I even had to Google what that is. I am simply your Cannon editor. Unlike the silly stereotype that engineers can't spell, engineers do know how to spell. Better yet, engineers even know how to write! Even if you think you can't write, that thing you are writing right now (yes, that Facebook status) is considered writing.

What is the Cannon you ask? The Cannon is the official Skule™ newspaper since 1978. It runs monthly and serves as a voice of the student body. We cover a variety of stories that matter to the student body, from major Skule™ events to study tips. Did I also mention that we have won plenty of publication awards?

The Cannon is always looking for new recruits for positions such as writer, layout editor, section editor and photographer. We always welcome fresh ideas from simply anyone! We believe that everyone has the potential of telling a story; you don't need to be a frequent subscriber of Time or Maclean's to be an expert on journalism. You simply need to know your What, When, Where, Why, Who and How.

Really want to get involved, but writing makes you yawn? There is also the layout and editing aspect of the publication. You get to help present a story in a visual way. With brilliant photographs, or Adobe InDesign, Photoshop and Illustrator you can change the opinion of that guy who thinks newspapers are boring and reading is lame.

You might think the only important thing in your next four years is grades. Well, you are wrong! Getting involved is a way to let all your stress melt away and focus on something you love doing as a hobby. As a writer you are not obligated to submit one piece every month, you can write for us anytime you feel inspired.

My objectives for this year are to increase readership and to raise awareness of student and academic issues, EngSoc and club activities. I think a good school newspaper always reflects the atmosphere of its school environment and since Skule™ is very much well rounded I intend to present the Cannon that way during the 2011-2012 year.

Express yourself, don't be afraid, be passionate and get involved! I will leave you with a quote from Mark Twain to start your new days in the steps of becoming an adult.

"Twenty years from now you will be more disappointed by the things that you didn't do than by the ones you did do. So throw off the bowlines. Sail away from the safe harbour. Catch the trade winds in your sails. Explore. Dream. Discover."

**Betari Prakoso**  
The Cannon Editor-in-Chief 1T1-1T2





## The Toike Oike

THE UNIVERSITY OF TORONTO'S HUMOUR NEWSPAPER SINCE 1911

What's The Toike Oike? Well, the first thing I'm going to do is set the record straight: "Toike Oike" is pronounced "Toy-key-oi-ke" and "Toike" by itself is pronounced "Toy-ke". That'll save you some embarrassment down the line.

Now that we have that out of the way, The Toike Oike (or just The Toike for short) is the University of Toronto's oldest humour newspaper. It just turned 100 in fact, so you'll be enjoying the Toike in its 100th year. It's also U of T's most popular, most distributed, sexiest, coolest, best funded, most liked, smartest, and most successful humour newspaper on all of campus. How are all of these brutally vain and probably made-up statements true? It's because we're U of T's *only* humour newspaper. The artsies write a lot of newspapers, but every single one of them is a pile of boring trash, so it's up to us Engineers to lay down some humour across campus. As engineers, we realize that when you're slacking off and reading a newspaper, you don't want to be bombarded by political campaigning and humanitarian bullshit, you want to be entertained. That's what The Toike Oike is here for.

But who writes this magnificent and self-proclaiming piece of literature from year to year? Well, we do. The engineers do. You'd think that the harsh beat-down of engineering would crush our spirits and turn us into humourless shells, but it's actually the opposite. The more that engineering beats us within an inch of our life, the more we realize that the only way to stay sane is to laugh a little. Unlike artsies, who are too afraid to even sneeze because they might offend someone or not be equal opportunity enough, Engineers are able to push past the overzealous political correctness and write some real humour.

If you're interested in being a part of the Toike in some way, send an email saying "I want to be a part of the Toike" to [toike@skule.ca](mailto:toike@skule.ca) and you'll automatically be added to the mailing list. You'll be informed of upcoming meeting dates and other shenanigans. For more information on joining, and information on the Frosh Writing Challenge, I recommend checking out the last page of this month's Toike (there should be one in your Frosh kit). Until then, enjoy your Frosh week.

**Andrew Jerabek**  
**Toike Oike Editor-in-Chief 1T1-1T2**

And now The Toike Oike presents: *How to Toike your friends!*

Did you know that "Toike" is both a noun describing an engineering humour newspaper *and* a verb describing physical assault? It's true! As you may have noticed, the back page of every Toike Oike is mostly black ink. To Toike someone, one must smear the back page of a Toike all over someone's face, thus blackening their face. Like most great surprises, Toiking is most effective when combined with prolonged stalking and proper come-from-behind technique. Follow up the attack by offering your victim the Toike you attacked them with for their reading and/or Toiking pleasure.

**WARNING:** The Surgeon General has determined that Toiking people may lead to you getting punched/slapped/knocked the fuck out. Toiking people tends to piss them off. Toike at your own risk.

...and try to avoid Toiking people with glasses and makeup.

# SKULEBOOK/HANDBOOK

## Skulebook

Are you wondering what Skulebook is? Well it's quite simple: Skule™ + yearbook = Skulebook! It is the engineering yearbook that portrays all the awesome and memorable events that happen during the year. It is created by the students for the students. We capture those numerous events and put it on paper for everyone to look back on their year and remember the great moments.

Do you like computer graphics, layout designing, photography, caption writing... or simply want to get involved? If so, join the Skulebook team because we'll need lots of help!

If you have any questions or want to get involved with Skulebook, feel free to email [skulebook@skule.ca](mailto:skulebook@skule.ca)!

**Jocelyne Chan**

**Skulebook Editor-in-Chief 1T2**

## F!rosh Handbook

If you're wondering what this "F!rosh Handbook" means, the answer is in your hands. Literally. It's what you're reading right now! This is pretty much a book made for you first-years to give you a taste of what Skule™ is like before setting foot here during F!rosh Week!

The Editor-in-Chief is elected by the Engineering Society in March and only a F!rosh (YOU!) can hold the position! You also get a fancy green hardhat, which makes this challenging and frustrating job worthwhile. It is preferred that you have skills with InDesign, Illustrator and Photoshop, but you can always learn on the job like me!

If you're still confused what this book is all about or just want to know more about the things in it, send me an email at [handbook@skule.ca](mailto:handbook@skule.ca)! I'd love to talk to you about Skule™!

## OMBUDSPERSON

Congratulations F!rosh of 1T5 and welcome to Skule™. My name is Deepak Jayaram and I'm excited to be your Ombudsperson this year as part of Engineering Society. You're probably wondering what I do? Well, I'm the person who deals with issues faced by engineering students to help make Skule™ life an enjoyable atmosphere for everyone to succeed. I want to make sure your first year has a smooth transition from high school to engineering, so feel free to express your needs in all aspects. Throughout the year, there will be many exciting ways to voice your feedback so keep those ideas and suggestions ready!

If you're maybe thinking:

F!rosh didn't go as anticipated...

Engineering labs are too crowded...

I have suggestions to improve Skule™ life...

or anything at all...

Let me know at [ombudsperson@skule.ca](mailto:ombudsperson@skule.ca)

See you all at F!rosh Week!!

**Deepak Jayaram**

**Ombudsperson 1T1-1T2**

# BLUE AND GOLD COMMITTEE



"Many many things to get involved in at Skule™, there may be... If using power tools, racing beds/chariots, watching movies, consuming BEvERages and going on bus trips you like, then the Blue and Gold Committee, you want to join."

- Master Yoda

Endorsed by EngSoc and Master Yoda himself, the Blue and Gold committee is in charge of keeping you sane after class by organizing kick-ass events throughout the year. It doesn't matter whether you're from Coruscant, Kashyyyk or just a small-time moon-dweller from the Outer Rim, the Blue and Gold Committee has an event for you. In the fall they organize the Bed Races (which happen during F!rosh Week!!!!!!) and they build the engineering float for the Homecoming parade. This year the float is going to be jaw-droppingly awesome! But to find out what it is you'll have to come out and see for yourself.



Now, if you think F!rosh Week is gonna be a blast, wait till you get a load of GODIVA WEEK! Brought to you by none other than the Blue and Gold Committee, Godiva Week is jam packed with outrageous events, ferocious competitions, relentless pants dropping, explosive patron waking, mild sexuality, course language and much more (viewer discretion and parental guidance are definitely NOT advised). Throughout the year the Blue and Gold Committee also organizes bus trips

to places like Waterloo(ser) for Oktoberfest and other mystery locations where we go and Drink an Unsuspecting Small Town Establishment Dry (DUSTED!). On these trips you'll get to meet people and engineers (who are also people) from other universities, consume BEvERages, laugh, sing, use the force and most importantly of all, forget about problem sets and assignments for one night. So how do you join the Blue and Gold Committee and find out when all these awesometastic events are happening? Just sign up for the mailing list by going to [blueandgold.skule.ca](http://blueandgold.skule.ca) or send us and email at [blueandgold07@gmail.com](mailto:blueandgold07@gmail.com).

**Luis Ramirez & Sandra Sousa**  
**Blue & Gold Chairs 1T1-1T2**

# SUDS

When it's Friday, Friday, you gotta get down on Friday. Looking forward to the weekend?

Every Friday night, the Sandford Fleming atrium auto-magically transforms into the kick-ass, 100% student-operated, all-ages undergrad engineering pre-pub known as SUDS. Come out to unwind over cheap BEvERages and pizza. Keep an eye out for special guests and special events, ranging from Mexican Fiestas to wicked club nights to mid-winter beach parties. There's even rumours of a black-light graffiti night so fly eve other schools come down to party...

You know what's better than SUDS every Friday night? SUDS every day! We're open for all of F!rosh Week and Godiva Week, so swing by to see what's happening. There'll be Cannon blasts, Bnad crashes, and maybe even a visit or two from Nobody.

There's a couple rules to keep in mind to keep the BEvERages flowing and the managers happy:

- Obey gravity.
- People of all ages are welcome at SUDS.
- No outside alcohol comes in. No inside alcohol goes out.
- To drink alcohol you need a wristband.
- To get a wristband you need to prove you're 19. Iron Rings, credit cards and T-Cards don't count.
- No sex in the women's washroom. >:| (See Fig. 1.)
- No pyrotechnics please!



Fig. 1

Over 18? Want to bartend? Say hi to one of the managers or shoot an email to [suds@skule.ca](mailto:suds@skule.ca) to find out how to become a SUDS server.

Hate the music? We take requests at the front. If you've reached your social interaction quota, tweet [@thesudsman](https://twitter.com/thesudsman) or send us an email.

Got an idea for an awesome event? Think you're better at throwing a party than us and want to prove it? Email [suds@skule.ca](mailto:suds@skule.ca).

**Ryan "Bellini with a shot on the side" Mintz**  
Finance Manager 1T1-1T2

**Laurie "Virgin Diet Cuba Libre" Charpentier**  
Operations Manager 1T1-1T2

# Suds Man



Young padawan F!rosh, you have proven yourself capable in knowledge and in battle through F!rosh Week. But now, your real test begins as you must fight and triumph over the Dark Side called 4.0 GPA. How will you do that? It's simple: arm yourself with the right gear from the Engineering Stores. You'll need textbooks (the Force), apparel (your cloak) and stationary (the lightsaber).

Luckily, the Engineering Stores have been here for millennia (since 1891) to provide students with the CHEAPEST prices on brand-new textbooks on campus! Don't be fooled by the other bookstores... they've all converted to the Dark Side and are out to get you.

**Location:** Sandford Fleming Basement, near the atrium.

**Hours of Operation:** Open 11AM – 3PM weekdays (NOTE: Extended hours during F!rosh Week!)



Our Engineering Stores is run by the students and for the students. We hire engineering Jedi who've toughed it through first year. They know the drills, thrills and frills and can serve you better! Silly F!rosh, you can join their ranks too, soon enough. Scared that you won't make it? Don't worry – because we've got you covered.

Aside from the basic necessities, you may need other accessories and trinkets with you on your journey. We suggest the X-Fighter, Millennium Falcon, thermal detonators, and possibly the E-11 Blaster. Just kidding, we don't carry that stuff. We do however, have more heavy-duty items like:

- Skule™ T-shirts
- Discipline T-shirts
- Polos
- Hoodies
- Lab Notebooks
- Pens
- Pencils
- Lead
- Official Faculty Notepads (you'll need this to get marks... really)
- Report Covers
- Drafting Tools
- Mugs
- Shot Glasses
- Patches
- More Patches
- Tickets to Skule™ Events
- Coveralls
- Leather Jackets
- Memorabilia items
- Much much more!

Keep an eye out for the latest survival gadgets, I mean fun, fun, fun, fun Skule™ and school supplies in our display case to the left of the store. And remember, if you can't find what you want, tell us! Our friendly staff are open to all suggestions and ideas.

**IMPORTANT TIP:** F!roshies, if you haven't done so already, purchase your textbooks from the Engineering Stores' website to avoid the first week congestion and receive a discount. If you have already, you can pick it up, pre-packaged and ready during the first week of school. Check out [stores.skule.ca](http://stores.skule.ca) and place that order!

# SKULE NITE



Do you want to act crazy, dance, and sing at U of T's historic Hart House Theatre? Maybe you'd like to play with power tools or take control of dazzling lights and sound effects? Or perhaps you're dying to be in a killer orchestra? If you said "F!ROSH YEAH!", "Totally!", "Yeah!", "That sounds fun!", "Maybe!" to any of the above, or even just read this paragraph without saying anything at all, we want YOU to be a part of Skule Nite 1T2! [insert lightsaber sound effects here]

Since 1923, Skule Nite has been U of T Engineering's Musical-Comedy Revue. Skule Nite is part sketch comedy, part Broadway musical, and is one of the most fun and professional theatrical experiences you can have in Engineering, at U of T, or in THE ENTIRE UNIVERSE! [really, insert lightsaber sound effects now]

Auditions and sign-ups happen early in first semester and the show hits the Hart House stage for four magical nights in March (visit [skulenite.skule.ca](http://skulenite.skule.ca) for exact dates and more information). No experience is required to audition or sign up for: [seriously, start making lightsaber sound effects with your mouth]

**CAST** – Act, sing, and dance your way through comedic sketches and big Broadway musical numbers! (lightsabers are cool, okay?!)

**BAND** – Instruments of all kinds (i.e. lightsabers) are needed for Skule Nite's fantastic orchestra!

**BUILDING CREW** – So I heard you like to play with power tools (and build lightabers)! Design, construct, and paint awesome sets and props for the show!

**STAGE CREW** – A chance to become an invisible and silent behind-the-scenes ninja (and wield lightsabers)!

**TECH CREW** – What is a show without lights and sound? Be the eyes and ears of the greatest show on earth while playing with some fun electronics! (build some more lightsabers)

**COSTUMERS** – So it's been your dream to make the cast look straight outta Bollywood or an episode of Captain Planet and the Planeteers? LIVE THE DREAM! (make costumes that have lightsabers attached)

**PRODUCTION** – Show off your organizational and interpersonal "skillz" with the production team as you help to make the show a reality! [buy lightsabers]

**THE AUDIENCE** – It's the least you could do, because F!rosh get a FREE TICKET (watch lightsaber battles) with their purchase of a F!rosh kit!

GET READY FOR THE BEST SKULE NITE EVER! [vvvvhhmmmmm, vhhmmmm, vhhhhmmmmmm!] (that's how you do a lightsaber sound effect!)

**Director:** Jonny Sun EngSci 1T1+PEY

**Producers:** Wayne Lin Indy 1T1+PEY, Ian Parker Min 1T2+1



## Concrete Canoe



You heard us right. The editors didn't make a mistake. It's not Concrete Paperweight, or Concrete Truss, it's Concrete Canoe. Intrigued? Come join U of T's Concrete Canoe Team where every year, students get together to design, construct and race a canoe made almost entirely out of concrete! The Canoe team strives for innovation, spirit, and above all, fun. From initial mix testing and hull design, through casting and the final competition, members will gain valuable skills as well as practical experience. But don't worry; it's not all just about concrete. Members are involved in areas such as mix design, computer modeling, material composition, technical

report writing, finances, sponsorship, paddling, and much much more. All of this culminates in a crazy weekend with a dozen other Canadian universities in a national competition, with spirit, fun, and excitement. The time commitment is as much as you wish to put in, and no experience is required! No matter what discipline, faculty, or Force alignment, we welcome you to get your hands dirty with us! And to seal the deal, **FREE LUNCHES**. Come check out previous years' canoes on display on the first floor of the Sandford Fleming building above the atrium.

For more information, or to join, visit [canoe.skule.ca](http://canoe.skule.ca), or email us at [ut.canoe@gmail.com](mailto:ut.canoe@gmail.com).

## UTEK

Do you have a competitive spirit? Do you want to think outside the box and develop your problem solving skills? Are you an engineer-wana-be who can't wait to experience real engineering problem solving? Do you want to network with engineers who have hands-on experience in the industry? If you've answered yes to any of the questions then the University of Toronto Engineering Kompetitions (UTEK) is what you're looking for! UTEK is an exciting experience and learning opportunity for you to apply your skills and knowledge in a very fun and competitive environment. Winners will receive cash prizes and represent U of T at the Ontario Engineering Competitions (OEC) to be held at U of T and then possibly represent us at the Canadian Engineering Competitions (CEC) which is to be held at UBC!

UTEK allows you to participate in one of the six different competition categories: Junior Team Design, Senior Team Design, Innovative Design, Consulting Engineering, Engineering Communications, and Parliamentary Debate. Fresh are welcome to join any competition except for Senior Team Design, open to 3rd and 4th year students only.

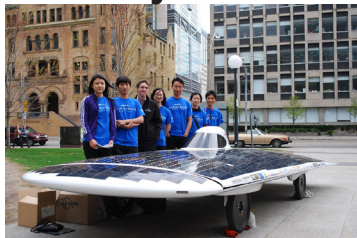
The Junior Team Design category is a perfect opportunity for Fresh and 2nd year students to participate in. Teams are required to build a prototype solution for a design problem given on the day of the competition.

If you're looking for a fun and challenging way to level up your teamwork, communications, and creative thinking skills, come register for the 10th annual UTEK! There will be an Information Session mid-November where you will be able to sign up for UTEK 2012, which will be held on a Saturday at the beginning of January. More information will be made available closer to the Information Session date in November!

If you have any questions, please feel free to visit [utek.skule.ca](http://utek.skule.ca) or email [utek@skule.ca](mailto:utek@skule.ca). Hope to see you at UTEK 2012!

**UTEK Director 2011-2012:**  
**Layan Kutob (INDY 1T2T1)**

## Blue Sky Solar Racing Team



University of Toronto Blue Sky Solar Racing is a multidisciplinary organization that integrates the talents of critical thinkers and innovators from different faculties, such as the Faculty of Applied Science and Engineering, the Faculty of Arts & Science, and the Joseph L. Rotman School of Management. The team aims to promote innovation and green technology through the design, construction and showcase of world-class solar-powered vehicles. Since the team's start in 1997, Blue Sky Solar Racing

has produced six solar cars and entered various international solar car races. The team has achieved numerous awards and international rankings in the past. The team's last car, the Cerulean, was ranked first in Canada and fifth in the world in its class. This October, the team is taking its sixth generation solar car to the World Solar Challenge in Australia to race. The cross-continental race runs from Darwin to Adelaide in Australia for a total of 3 000 km. Racing across the continent at highway speeds using only energy collected from the sun requires the most brilliant design for power management. Every component of the car is designed to maximize energy efficiency, allowing it to reach an average speed of 85 km/h on just enough energy to power your hair dryer!

Interested in building a solar car? Feel free to drop by our shop at the Engineering Annex RM 104 and visit our website! [www.blueskysolar.utoronto.ca](http://www.blueskysolar.utoronto.ca)

## University of Toronto Robotics Association

Ever wanted your own R2-D2 or C-3PO? Join UTRA to find out how!

The University of Toronto Robotics Association (UTRA) is committed to designing and building robots through the use of students skills drawn from all areas of science and engineering. It was formed in 2002 and comprised of over 200 members. Since 2006, UTRA has been rapidly expanding the scope of its projects to include Sumo Robot, Robot Fire Fighting, Robot Soccer, Autonomous Robot Racing, 3D Printers, and the UT-FIRST mentorship program. And starting in 2007, UTRA began traveling to California to compete in RoboGames- the largest robotics competition in North America, with a large number of international competitors. UTRA has been the most successful with its Combat Robot, with bronze medals in 2008 and 2009, a gold medal in 2010, and another gold medal this year in the 120-lbs weight class category at RoboGames! Being the only Canadian University that won gold medals at RoboGames, UTRA was interviewed by the Toronto Star and CTV.



UTRA provides various practical training opportunities to engineering students in the MIE Student Machine Shop and the Undergraduate Design Workshop. In addition, students get hands-on exposure with motors, sensors, soldering, programming, mechanical assemblies, and etc. Given the multidisciplinary nature of UTRA projects, students are encouraged to learn from their peers in different engineering disciplines. In 2009, UTRA initiated the Sumo Robot Competition to introduce junior students to autonomous robotics. The competition is an excellent venue to learn the basics of robotics, so students can graduate to our larger robots that compete internationally.

Feel free to visit our website at [www.utra.ca](http://www.utra.ca) or our workshop at EA-106 (Engineering Annex Building). You can also contact us at [utra@utra.ca](mailto:utra@utra.ca).

## American Society of Mechanical Engineers

On behalf of the American Society of Mechanical Engineers U of T Section we welcome all you new 1T5's to Skule™! By this time you have been approved by the Jedi Council and just beginning your university career. We at ASME hope you enjoy your F!rosh Week experience, make new friends along the way, and learn that there's more than academics at U of T Engineering.

ASME is an international engineering society which primarily concentrates its efforts in mechanical engineering, and is known for setting codes and standards for mechanical devices.

ASME U of T Student Section allows students to experience the applications of mechanical engineering through events such as plant tours, guest speakers, and conferences. Additionally, we hold events such as PEY Mixers and Graduate Seminars, which allows young padawans to gain wisdom from the PEY Jedi Masters, and explore graduate studies. This year, we hope to hold sessions which allow students to gain skills such as resume and cover letter writing, as well as interview skills, which are important to students of all years, because believe it or not, interviewers are immune to Jedi mind tricks!

Though we consist of mechanical engineers, we are not limited to them. Students of all disciplines are welcome to join. We will be hosting information sessions in the beginning of the year to fill you in on our goals and missions for this upcoming school year.

Enjoy F!rosh Week, good luck in first year, and may the Force be with you!

## The Canadian Society for Chemical Engineering

The Canadian Society for Chemical Engineering (CSCHE) is a national association for chemical engineers. Its members consist of practising engineers in the industry and members of Chemical Engineering academia. The U of T Student Chapter acts as a link between students in their academic environment and the professional world of chemical engineering.

Our biggest event is the annual CSCHE Conference, which this year will be held in London, Ontario. Students are exposed to a wide range of academic and professional development events that complement and enhance their undergraduate studies. At these conferences, student delegates have participated in the Reg Friesen (for non-technical) and Robert Auld (for technical/chemical) engineering competitions. U of T students are well-known for placing in the top three in these competitions each year. In fact, at last year's Conference in Saskatoon, we sent three student delegates to compete; two students placed first and the other placed second.

In addition to the conferences, the Chapter also organizes other events which prepare students for professional life in fun and engaging ways. Some events include PEY info sessions, professor-student mixers, plant tours, and even Chem Week, an entire week of events dedicated to Chemical Engineering. We also have social and competitive events like the Faculty Basketball League, table tennis tournament, pub nights and coffee house. Food is always provided and free swag is to be won! We look forward to meeting you at our events.

Email: [csche@skule.ca](mailto:csche@skule.ca)

## Club for Undergraduate Biomedical Engineering

The Club for Undergraduate Biomedical Engineering (CUBE) is the only student-run club of its kind whose mandate is to promote biomedical engineering to undergraduate students. The oldest and largest chapter was founded in 1997 at the University of Toronto. Currently, the Toronto chapter has over 400 members including alumni from assorted programs and faculties. CUBE's purpose is to disseminate knowledge pertaining to the biomedical field and to serve as a point of contact between students, academia, and industry. CUBE helps to complement the normal undergraduate curriculum by providing students with the resources and opportunities to explore various areas in bioengineering, biotechnology, and medicine.

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This is accomplished through hosting events such as career seminars to help students find summer and post-graduation jobs, research seminars by world renowned professors, industry mixers with successful industry leaders and entrepreneurs, bioengineering competitions, tours of industrial plants, hospitals, and laboratories, and paid trips to international conferences. With the rapidly expanding field of biomedical engineering and its boundless potential to improve the quality of life for those in need, CUBE will provide anyone with an interest in this field an abundance of valuable information and incredible opportunities. So come check us out! ([cube.skule.ca](http://cube.skule.ca))

## Chinese Engineering Students' Association

Hey F!rosh! Let me introduce a cool club to you!

The University of Toronto Chinese Engineering Students' Association (U of T CESA) is a student-run, non-profit organization dedicated to promoting Chinese culture, friendship, and communication between its awesome members! Don't be fooled by our name because we accept everyone as members no matter if you are Chinese (FOB/CBC), non-Chinese, Engineering students, or Artsci's (We accept everyone!! We're that amazing). Running for the 37th year beginning May 2011, CESA is one of the largest clubs within the engineering faculty, having approximately 400 undergraduate students, graduate students and alumni. CESA is a university-recognized club providing many events and services throughout the year.

Now you are probably asking, what kind of events do we have? Well listen up! You will be able to meet new friends at our social events, celebrate Chinese festivals at our cultural events, learn new things at our academic events, and compete in our sports tournaments, just to name a few. But CESA doesn't stop there! You get free lunches, receive discounts at stores around Toronto, and get to enjoy our biannual CESA Times magazine (in English and Chinese), and much more! We give our members the opportunity to learn, have fun, meet new people and help others around campus and in the Greater Toronto Area.

When you become a member of CESA you also get great products such as our clipboard (which has become quite famous and a common sight around campus), and a variety of our membership merchandise (this year's merchandise will be mind-blowing; but don't tell anybody, it's a secret).

Be sure to look out for us during the F!rosh week clubs day!

Visit: [www.cesa.skule.ca](http://www.cesa.skule.ca)

Contact: [info@cesa.skule.ca](mailto:info@cesa.skule.ca)

## Engineering Chinese Club

Hello class of 1T5! Welcome to the most exciting university experience you will ever have! As part of the Engineering Society, we, the Engineering Chinese Club (ECC) are here to ensure that you will have a blast during your F!rosh year. Our mission is to unite Chinese engineers and empower all engineers, and of course that includes making sure everyone has a fun and memorable F!rosh experience! We host social and athletic events so you can take a break from school work and meet new people. We also host academic seminars to show you what you need to know as a F!rosh and introduce you to future opportunities. We even added a new mission this year to get you involved in the Canadian society through various volunteering opportunities. Let us be a part of your amazing memories and be sure to join the ECC family when you arrive!

## Eyes of Hope

The purpose of Eyes of Hope (EOH) is to create positive change by alleviating poverty in the local and international communities, while developing leadership and having fun. EOH seeks to improve lives through community service, fundraising, and social awareness. To date, we've fundraised over \$30,000. Our initiatives include:

1. Affordable housing via the U of T Habitat for Humanity Campaign.
2. Helping children through Free the Children and World Vision.

3. Homeless outreach through sandwich runs, umbrella painting, and homeless shelter and food bank volunteering.

Everyone is welcome to come and help!

## Galbraith Society

Galbraith Society aims at enhancing learning opportunities and interactions among bright minds in engineering to help the whole student body further their professional development. We host a mentorship program with socials, around-Toronto activities, workshops, and seminars to give students learning and networking opportunities. With connections to the faculty and professors, we also organize lab tours and provide networking opportunity with academic professionals to members that can lead to potential research positions. Although members are chosen from incoming high schools for students' excellence in academics and extra-curricular involvement, membership is open to all students at the end of their first academic year. Participation is always highly encouraged.

## Hi-Skule Committee

Every Jedi needs a mentor/master. Whether it's for Qui-Gon Jinn to discover and pique the interests of a budding Jedi knight that would eventually bring 'balance' to the Force, or a masterful Jedi living in Dagobah that speaks in reverse he does, a young padawan must be trained before defending the republic. Thus such is the role of the Hi-Skule Committee. We are the Han to your Chewy, the Luke to your Leia (ew...) the Darth Vader to your Padme. The Hi-Skule Committee strives to reach out to the younglings and the padawans in attempts to seek out those willing to join our Skule™ council. Through activities such as Post Offer/Pre F!rosh, University of Toronto High School Design Competition, or Designapalooza, the Hi-Skule Committee exercises our use of the force to attract prospective high school students and to inform them of truly how great Skule™ is.

## Iron Dragons

Composed of U of T engineering students and coached by engineering alumni, the official Skule™ dragon boat team is. Founded in 1997, the team was, and affectionately known as the loudest and most spirited team on the water, we are. Train from April to September, and learn the ways of the paddle from Master Yoda, you will.

Participate, the team does, in several regattas throughout the summer (including Montreal, a city far, far away), competing against the teams of the dark "Artsie" side. If meeting new people, getting in shape, or having fun you are interested in, then for you, the Iron Dragons are! Open to all engineering students, the team is, and required, experience is not.

So, Padawans, come to any of our races during the summer to learn about the sport and cheer us on, you should! On the weekend of September 10/11 2011, the Great White North Dragon Boat Challenge is.

More information, you can get, at [dragonboat.skule.ca](http://dragonboat.skule.ca), or by email at [dragonboat@skule.ca](mailto:dragonboat@skule.ca).

## National Society of Black Engineers

The National Society of Black Engineers (NSBE) is the largest worldwide student run organization with over 23,000 members in regions ranging from the U.S., Africa, Asia, Canada, Europe and the Caribbean. The NSBE University of Toronto Chapter (NSBE U of T) was founded in 1999 and aims to increase the number of culturally responsible Black Engineers who excel academically, succeed professionally and positively impact the community. NSBE U of T has programs such as the "Tea, Lunch, Dinner and Networking" series, the inspirational "Talks with..." series, Study Bashes and various workshops that aim to promote academic, professional and personal development. Members of the chapter

# CLUBS

are also given the opportunity to participate in outreach programs such as the NSBE U of T High School Conference. Annual Fall and National Conventions provide our members with exciting opportunities to meet other students and network with professionals in the field from different parts of the world. NSBE U of T also strives to balance the stress of Engineering with social activities such as Movie and Games Nights, Club and Pub nights and the always popular and anticipated D-Battle (Dance Battle). The NSBE U of T family is looking forward to meeting, helping and serving you during the school year!

Join our Facebook group: Search NSBE

Website: [morlab.mie.utoronto.ca/NSBE/](http://morlab.mie.utoronto.ca/NSBE/) Email: [nsbeU of T@gmail.com](mailto:nsbeUofT@gmail.com)

## Korean Engineering Students Association

Hello there young F!rosh! We are KESA, the Korean Engineering Student Association, looking for young engineers like yourselves to join our group! KESA is dedicated to promote Korean culture and communication within our members through unique events and community services. Currently, there are approximately 150 undergraduate student members as well as 100 graduate members actively involved in KESA. These members regularly collaborate and communicate through KESA events both in Canada and Korea in order to encourage growth of each and every member's networking chain. Hosted events are diverse in theme, from academic seminars to formal Cocktail Parties, all in all to initiate connections between KESA members and build stronger relationships in life within and outside of the university. Major events such as the F!rosh General Meeting, Members Training, and the annual Ski Trip are just some of the many events planned throughout the year, including the summer! As a stepping stone, KESA hosts Annual KESA Math Contest for high school students every year. Students are provided with brief introduction as to what kind of materials will be taught in the engineering programs offered in the University of Toronto. To academically support undergraduate students, KESA regularly arranges student study groups. KESA gives support for its members when help is needed. Furthermore, KESA maintains a systematic method to help freshmen study new materials. So come join KESA and be a part of what is hoped to be the best year here at U of T!

## Sustainable Engineers Association Conference

The Sustainable Engineers Association Conference (SEAC) is designed to expand the minds of students passionate about learning more about the topic of sustainability. In this one day event, students learned about the current state of sustainable development and technology in Canada and internationally. The conference will provide students with a chance to meet the leaders and innovators from sustainable industries in a formal and professional setting to serve as an educational and inspirational experience, empowering and encouraging attendees to make an impact in their own careers and personal lives.

This year's Conference features nine excellent speakers. They are Jean-Francois Barsoum from IBM on Sustainable City, Graeme Stewart from ERA group on Urban Building Renewal, Dani Marino from Halsall on Sustainable Building, Jane Huang from Zenn Motors on Electric Cars, William Goodings from Canadian Executives Service Organization on Waste Management, Trish Yee from Steam Whistle on Green Brewery, Becca Lane and Shawn Smith from the Ministry of Transportation on infrastructure and transportation.

## Sustainable Energy Fair

The Sustainable Energy Fair (SEF) at the University of Toronto (St. George) will showcase innovative and practical ideas for taking the first steps towards a future of sustainable energy. The annual fair will include interactive and exciting exhibits from student groups, community organizations, lobbyists, social entrepreneurs, corporations and academic researchers. By promoting cutting-edge sustainable energy technologies and the noble causes behind green energy policy implementation, SEF aims to educate the University and GTA community on the need for a reduction in energy use and what we can do as



individuals to protect our environment. The first annual SEF at U of T took place on April 1st, 2004. It was organized by a group of dedicated Engineering students at U of T. Their event was a great success and attracted hundreds of students. Since its inception, the fair has only grown in size and in its diversity of activities. It is now one of the largest, student-organized events on the U of T campus. Although our main focus is the fair itself, we will hold workshops and seminar throughout the school year. Now entering its eighth year, we are looking for motivated, dedicated individuals who would like to be a part of the organizing committee. Check us out at [www.U of Tsef.com](http://www.UofTsef.com). For interested students, please send us an email to [U of Tsef@gmail.com](mailto:UofTsef@gmail.com).

## Skule™ Community Outreach

Why hellooooo there! My name is Nancy Ho and I am your community outreach director this year. What is it that I do? Well, the basic idea is that I am a planner of charitable events that will allow YOU engineers to contribute your time and effort in benefit of the greater community. But, of course, there's more to it than just that. By participating in these events, you have the valuable opportunity of interacting with people from different years and disciplines sharing similar interests to yourself. The experience you gain will serve as a reminder of the most important aspects of engineering; working in teams to help the community. The community's dependence is the force which provides Jedi engineers their power. So do not hesitate to brandish the power of the light side in a show of support and care for people (and animals) in need! I GUARANTEE (no money back) that it will give you something to smile about at the end of the day. I will be cooking up several exciting events throughout the Skule™ year, so keep your eyes and ears peeled! There will soon be a mailing list which you may join. In the meantime, feel free to contact me at [community@g.skule.ca](mailto:community@g.skule.ca); I welcome all ideas, comments, or inquiries. <(^\_^)>

And "[r]emember, a Jedi's strength flows from the Force".

## Skule™ Orchestra, The Engineering Symphonic Orchestra

Founded in 2006, Skule™ Orchestra is a 50 member symphonic orchestra of string, wind, and percussion instrumentalists. The orchestra is the place for students to have fun performing challenging repertoire ranging from Mozart to Mahler, to unwind at weekly rehearsals and social events, and to enjoy music with musicians like themselves. Last year, the orchestra hosted four events, including Moment: the Valentine's Ball, where the orchestra performed live waltzes and foxtrots; and the year end concert Symphonic Boom, where Sibelius' Symphony No. 1 was performed in its entirety along with Chopin's Piano Concetro No. 2 and Tchaikovsky's Romeo and Juliet Fantasy Overture. If you are a musician and want to keep up your skills and your passion for music, this is the club for you to join. If you love music but don't play an instrument, then don't forget to attend the Skule™ Orchestra events and concerts! For more information please visit [orchestra.skule.ca](http://orchestra.skule.ca)

## Skule™ Arts Festival

"Because Engineers can do art but Artscis can't Engineer!"

The Skule™ Arts Festival is a week-long art exhibition that provides engineering students at U of T the opportunity to demonstrate their artistic talent and share their interest towards the arts. The artists include students from all over Skule™ who come from different backgrounds, with different talents who submit a variety of work including music, dance, photography, painting, drawing and writing to be shared with the Skule™ community. The Skule™ Arts Festival is not only a gala for art enthusiasts but is also an event for all the students to develop their skills and enrich Skule™ life.

## U of T Aeronautics Team

When you are sitting in that classroom in high school or that lecture hall in your first year of study, do you ever feel like Luke Skywalker stuck on his uncle's moisture farm, yearning for adventures out there? Do you ever feel that the sky is calling you like the twin sunsets on Tatooine? If you answer yes to these questions, then join UTAT, U of T Aeronautics Team!

We are a team of highly motivated people all sharing a passion for airplanes. Our purpose each year is to design and built radio controlled aircrafts and enter them into international competitions. The main event that we aim at is the SAE AeroDesign Competition sponsored by companies such as Lockheed Martin and Northrop Grumman. To prepare, we scrutinize every part of our planes from the early napkin drawings to the final test flights. At each stage, optimal balances between aerodynamics, structures, and construction techniques are stressed to ensure that we would have a winning design. We also incorporate cutting edge software used by industry leaders such as Boeing into our optimization procedure.

So join us if you are committed to learn and practice modern aircraft design approach. You can also build great industry connections by taking on the administrative roles if the technical stuff isn't your calling within the Council. When you see your design take to the sky for the first time, we guarantee that it will be as exciting as a young Jedi activating his first lightsaber!

## U of T Engineering Toastmasters (UTET)

U of T Engineering Toastmasters (UTET) is one of 11,000 toastmasters clubs spread throughout 94 countries. We're a group of students who practice public speaking by giving prepared speeches and impromptu talks to fellow members. Our weekly meetings are a chance to learn how to communicate confidently and effectively in a supportive and encouraging environment. All engineers have technical skills but many lack the ability to communicate our knowledge, which to employers is often just as important. From interviews, to presentation to your day-to-day work, we can give you the competitive edge you need to excel in your career.

To join our mailing list visit [toastmasters.skule.ca](http://toastmasters.skule.ca) or email us at [toastmasters@skule.ca](mailto:toastmasters@skule.ca)

## You're Next 2012

You're Next 2012 is the annual Engineering & IT Career Exposition at the University of Toronto. It is the largest student-run career fair that will showcase over sixty companies across various engineering sectors. You're Next is an opportunity for all engineering students to discover the career path that they would like to pursue – whether it's in software development, banking, product design, or consulting, we've got it covered!

You're Next realizes that students come from a variety of backgrounds – all of you are looking for something different. Some students are looking for a summer job (even you first years!), others are looking for PEY and post-graduation jobs. We will be sure to cater to the entire spectrum of students by providing first and second year students more guidance and training leading up to the career fair.

So be sure to join us in January of 2012. Look out for emails in the EngSoc Digest as well as the posters around the Engineering buildings. We'll see you there!

If you have any questions about the career fair, do email Executive Director Yi-Wei Ang at [yiwei.ang@yourenext.ca](mailto:yiwei.ang@yourenext.ca)!

# WHY GET INVOLVED?

Four years from now, when you're holding your degree instead of this book, and looking back on your time at Skule™, what will you remember?

You won't remember that program you wrote, the reaction force on that truss, or that time you failed the Calc II midterm. You'll remember the people you met, the crazy things you did during F!rosh Week and Godiva Week, the time you stayed up until 4 am before your design team's competition, the prank you helped build and the election you won.

Getting involved in Skule™ life beyond the classroom is the best way to meet people who share your interests, build memories that will last a lifetime, and gain skills you could never learn within the controlled environment of engineering education.

So you've read this handbook and want to do more at Skule™ than just go to class and go home? Where do you start?

## **The Engineering Society (EngSoc) – [www.skule.ca](http://www.skule.ca)**

The Engineering Society, your student government, offers a ton of opportunities to take on leadership roles and help others make the most of their time at Skule™. Check the Skule™ Digest or email [engsoc@skule.ca](mailto:engsoc@skule.ca) for info on getting involved in governance, newspapers, commercial operations, F!rosh Week and event planning!

## **Clubs – [clubs.skule.ca](http://clubs.skule.ca)**

Visit [clubs.skule.ca](http://clubs.skule.ca) for a list of all Skule™ clubs! Watch out for them at the F!rosh Week Clubs Fair, or email them asking how to get involved! They're always looking for new people!

## **The Lady Godiva Memorial Bnad – [lgmb.skule.ca](http://lgmb.skule.ca)**

Requiring no formal commitment, or the ability to play an instrument, the Bnad will welcome anyone, especially F!rosh. You'll meet fellow F!rosh, as well as upper years involved in Skule™, and be a part of a 60-year-old Skule™ tradition!

## **The Blue and Gold Committee – [blueandgold.skule.ca](http://blueandgold.skule.ca)**

Also requiring no formal commitment, the Blue and Gold Committee will teach you to use power tools, and then you can help build epic things! They also run Godiva Week, movie nights, bus trips, and loads of other fun events!

## **Skule Nite™ - [skulenite.skule.ca](http://skulenite.skule.ca)**

Can you act? Sing? Play music? Build things? Carry things? Light a stage? Play sound effects? Don't know, but want to learn how? Skule Nite is an opportunity to become involved in a theatrical production of epic proportions! Look out for them at the clubs fair, visit their website, or keep an eye out for notices of auditions!





EPISODE II

**STUDENT LIFE**

## Why live in Residence?

**Socializing** – Get to meet and live with people from all over the world. You will have greater interaction with peers, faculty, student and learning services.

**The Best Location** – Close to classes and the libraries at all times. Residences are in the heart of downtown Toronto and only minutes from Engineering Complex, Libraries, and the Athletic Centre. You are in the middle of all the action!



**Bedroom at the Innis Residence**

**Involvement** – Able to participate in all kinds of on-campus clubs and activities without having to worry about missing the last bus home.

**Support and Connections** – There is always someone around who would love to socialize or give you a helping hand. Most of the people living in residence are very friendly.

**Convenience** – With meal plans (except Innis), complimentary internet, and laundry facilities onsite, living in residence couldn't be any easier.

**Fun** – Residences usually organize activities and allow you to interact with a lot of different people. In residence, everyone is positive, encouraging and fun.

**Safety and Security** – 24 hour porters and/or security cameras are a part of each residence, making sure you have the security you need.

**Higher Academic Success** – An increased level of social and extra-curricular involvement has shown to boost the rate of student success.

**Leadership Opportunities** – There are ample opportunities to be a leader in residence. Students can serve on the Student Residence Council, become a member of the Residence Life Team and act as a representative on a number of committees.

**Student Consultation** – Student consultation is an important part of residence evolving as a student service on campus. There are a variety of ways that residents can provide their input.



# RESIDENCE CHECKLIST

Living in residence will feel a bit different than living at home. It is important to take what you need and avoid what you don't need. While it may seem like a good idea to move everything in your room to your residence, moving in and out can be a pain. Here is a list of items that will help you pack lightly, but enough to last you for the year.

**Laundry Basket and Detergent** – Time to start learning how to do your own laundry !

**Bedding and Linens** – These will not be provided. Although some residences do provide pillows, you will probably want to bring your own.

**Clothes hangers** – You will only get a couple of these, but bring no more than you need!

**Computer** – A laptop is recommended as it is more convenient. You may also want to bring a printer for emergency printing. Keep in mind that you will given a quota of around 1000 pages for printing at the ECF labs per semester, so be sure to make use of it.

**Flip-Flops** – Needless to say, you'll want these for dormitory showers.

**Desk Lamp** – The lighting in your residences is not likely to be optimal for reading and studying.

**Bathroom/Shower supplies** – Being clean is beneficial to you and your peers. Do it.

**Alarm clocks** – You should probably have more than one of these for those early exam mornings. Remember that an Engineer always designs for failure.

**Posters** – They'll make your white wall look nice. Unless you like to live in a prison.

**Medicine/First aid kit** – You don't want to be running around asking for a band-aid.

**Mini Fridge** – Recommended for late night snacks and BEvERages.

**Stuff for your hobbies** – Schoolwork is important, but don't lose your hobbies! Most residences have music rooms and gyms. Bring what you need to give yourself a break.

## Additional Tips

**Equipment** – It's always better to be prepared. Items like a kettle, a water filter, plates, bowls, and forks are lifesavers. Basic toiletries and a laundry basket are a must. Also, take note that it costs an additional (not part of your residence fees) ~\$2 to dry and wash your clothes.

**Eating and Cooking** – You paid for a meal plan, so it'd be wise to use to its fullest. While the food may seem enticing at first, eventually, you will get bored of the same things being served. During emergencies or when Café food is absolutely intolerable, you can always take a short walk off campus for the myriad of eateries nearby. There are several pizza, barbecue restaurants, Chinese trucks and mini-marts right next to the Athletic Center. You could even cook on your own in the common room or apartment.

**Cleaning** – Aim to keep your room neat and for God's sake, DO YOUR LAUNDRY! You don't want to mix up your 4 hour Chem labs with your rough work or exit the shower one day to realize that you've run out of underwear. Trust me on this. Even though you may not mind, always check with your roommate – he/she might. Need a vacuum or mop? You have been given clearance to attain the cleaning room keys from the main porter. Of course, use them at your discretion.



# RESIDENCE BUILDINGS

## New College

There are three buildings at New College. The two old buildings which were built in 1976 are connected and the new building which was built in 2003 is located right opposite the old buildings. All these three buildings are very close to your classes. This can be very advantageous when you are running late for classes or getting over that hangover from party happening the previous night. As a resident of New College, you are required to get a meal plan which gives you access to the cafeteria located in the old building where you can enjoy the All-You-Care-to-Eat style of meals every day. You may also choose to cook some late night meals in one of the common rooms on your floor. New College also has two bike storage rooms, one exercise room (in the new building), a library and two music practice rooms each equipped with a piano.



## 89 Chestnut

Although 89 Chestnut Residence is right in the heart of downtown Toronto which is only steps to Eaton Centre, you will need to spend 10-15 minutes walking to school every morning. The walk sounds like a good daily exercise, but for those who always sleep in will need to gain more power to get up earlier. The building is hotel-styled and cleaning services are provided regularly. The food is the best among all other residences and residents holding 330 or 15 Meals Plans are allowed to go to New College for lunch; bag meals are another choice. Chestnut has a few studying areas in the main floor lounge and the 27th floor; however what you will see more are parties and banquets hosted in its various ballrooms.



## Innis

Innis is one of the two apartment style residences on campus where you will get to live with up to four other people. While it is highly competitive to get into Innis, you will be able to cook your own food that you like to have. At Innis, there are five study rooms where you can study in groups or individually and/or work on projects until late at night. There are also a gym, a music room, a games room equipped with a pool table and a foosball table, two TV rooms with plasma TVs, and the Fish Bowl where you can chill with your friends. Every month, there will be House Olympics which you compete with other houses. This is the time for you to show team spirit since you can gain house points for your house based on the participation and the result. You can also hold suite events in your own suite and invite friends living in the residence to come over to play games and enjoy the food you prepare. All these will count toward the house points and at the end of the year the house that wins will receive a secret prize. It is guaranteed that you will gain a lot throughout this experience living at the Innis Residence.



# COMMUTING

Too bad we're still in an age where there are no Podracers, or any commercially-available personal flying contraption, for that matter. If you have to commute (whether from outside downtown, or outside of the city), you have probably planned out everything for the arduous travel ahead already. If you haven't, though, here are your options for public modes of transport:

## The TTC

[www.ttc.ca](http://www.ttc.ca)

I believe most commuting students at U of T use it. And you hear the complaints all the time. Delay this, delay that. The suffocating hoards of people waiting for a bus or squished into a subway train during peak hours. The annoyance of sleeping past your stop. And so much more to be said! But I digress. As a commuter, use the post-secondary monthly Metropass (versus tokens or tickets). At the time of writing this article, they come for \$99 each. You'll need to get a TTC student ID card for the year, though. During late August and September, your University of Toronto Students' Union (UTSU) will offer taking ID photos for this card. It'll cost \$5.25, and you'll need to prove that you're a post-secondary student (i.e. with your letter of acceptance). You can visit [www.utsu.ca](http://www.utsu.ca) for updated info on this. Once you have that card, you'll have to present it with your Metropass to the TTC operator when they ask to see it (they don't do that often, though).

## GO Transit

[www.gotransit.com](http://www.gotransit.com)

The GO train is a popular alternative to the TTC for many students. Similar to the TTC, post-secondary students can have discounted ticket/monthly pass fare with the purchase of and upon presenting a GO student ID card. Fare can be more expensive here compared to the TTC, and prices ultimately depend on your route, but at least the GO may operate more reliably.

## U of T Shuttle Bus

<http://www.utm.utoronto.ca/1651.0.html>

If you happen to live near the U of T Mississauga campus, you can conveniently hop into one of these! (As far as I know, this doesn't run for the Scarborough campus.) You'll need to buy a shuttle bus pass for each term (\$500 each). These buses pick up and drop off students between stops at the Mississauga campus and in front of Hart House at the St. George/downtown campus. Frequency of service is usually every 20 minutes during the school year.



**U of T Shuttle Bus**

So... commuting could take half an hour for some, and at least 2 hours for others. And for most, you're pretty much sitting in a seat until you reach your stop (unless you have no choice but to stand... how dreadful). Now how to put that precious time to good use???

- Sleeping.
- Honing your lightsaber skills.
- Last-minute studying for tests and exams.
- Reading textbooks, reviewing notes.
- Doing homework, working on assignments.
- Plan what to do for the day/upon getting home.
- Again, sleeping.

Well, try to do what you can. Just think of commuting as part of your training as Jedi!

## University of Toronto Farmer's Market



When: Every Thursday from May 30 to October 06, 2 - 5 pm

Where: Willcocks and St. George

Website: [www.uoft.me/farmersmarket](http://www.uoft.me/farmersmarket)

Sample local foods, talk to the farmers about what makes local food so delicious, learn how to cook with local ingredients, win prizes, participate in special activities, and connect with the community!

## Nuit Blanche

When: October 1, 2011

Although not strictly an on campus event, UofT does hold a few contemporary art exhibits of the city wide art festival. Don't forget to check out the rest within downtown as well.

## Macbeth

When: November 9 - 26, 2011, 8-10pm

Where: Hart House Theatre

A horrific tragedy that creeps under the skin and lays bare the dangers of ambition and the corruption of power.

## Drama Festival

When: February 16 - 19, 2012

Where: Hart House Theatre

Only accepting original student written plays, the festival serves as an accessible avenue for U of T students to perform, direct and express their flair for the dramatic on the historic Hart House Theatre stage. Tickets sales begin on September 2. Get your tickets early!



## Festival of Dance

When: March 2012

Where: Hart House Theatre

Canada's largest University Dance Festival. This year's festival is a showcase highlighting dance styles from around the world, including: Irish, Ballet, Modern, Bollywood, Jazz, Hip Hop, Indian, Musical Theatre and more.

## Film Festival

When: Spring 2012

Where: Hart House Theatre

The festival features 15-20 film screenings made by U of T students and alumni, including juried winners from the Hart House Film Board and the Cinema Studies Student Union. A must-go for film fans.

# STAYING HEALTHY

Staying healthy and fit is ideal for any age, but for folks your age, a good lifestyle will not only benefit your academic performance in university, but your future self as well.

Usually overlooked, but incredibly important, is sleep. Ideally you should be sleeping 8 hours a day but on many occasions you may choose to shorten that for studying and partying instead. When you are working late at night, it is important to take 5-10 minute breaks every hour. The break time might seem to be a perceptible percentage of an hour but taking your mind off work and stretch periodically can effectively boost your efficiency and concentration while working.

Another thing to keep up is your diet. A healthy mix of greens and meat each meal can boost your energy daily when you are running on only a few hours of sleep. Your learning ability and concentration can be greatly influenced by what you eat, too.

**Eat a variety of foods**, especially:

- Vegetables. Choose dark-green leafy and deep-yellow vegetables.
- Fruits. Choose citrus fruits or juices, melons, and berries.
- Beans (such as red beans, navy beans, and soybeans), lentils, chickpeas, and peanuts
- Whole grains, such as wheat, rice, oats, corn, and barley
- Whole grain breads and cereals.

**Eat foods low in fat, saturated fat, and cholesterol**, especially:

- Fish.
- Poultry prepared without skin; lean meat.
- Low-fat dairy products



You're probably gonna be tempted by eating pizza and junk food every meal, but you wouldn't last too long. You will get the 'Freshman 15' before you know it. Having a balanced diet and adequate fluid consumption can sometimes be the difference between a productive day and a absolutely terrible one!

It's also a good idea to pack a snack and a drink in your bag everyday, as you can get pretty hungry during the day. There are

some places on campus (e.g. Sid's Cafe and Megabites in Bahen) that offer snacks and drinks, but they are somewhat pricey.

If you ever happen to get sick and need to see a doctor, you can always visit the U of T Health Clinic in the second floor of the Koffler Student Centre (beside BA). Just set up an appointment by calling 416-978-8030. Walk-in times are available as well in the mornings, but it functions on a first come, first serve basis. Also, if you didn't opt out of the U of T Health Insurance Plan, your perscription costs can be covered too!

All in all, you're gonna be hard at work studying, but always remember what you do when you're not studying can affect you! Along with healthy eating and adequate sleep, you can also get active by doing the things on the next page.

## Engineering Athletics Association (EAA)

The Engineering Athletics Association organizes all the Skule™ intramural sports teams in the U of T community, as well as several interest clubs. We have teams from Ice Hockey to Field Hockey, Volleyball to Rugby and everything in between (ever tried Lacrosse? Or Innertube Waterpolo?). If you can walk, run, throw, jump, swim or skate or even if you can't do any of the above - we need you! There are some cool clubs where you can experience rock climbing, skiing, and much more! Come drop by our booth on Clubs Day or sign up on our website, [www.eaa.skule.ca](http://www.eaa.skule.ca).

## Athletic Centre (AC)

The first eye-catching part of this giant building is the Olympic-sized pool. The smell of chlorine and the echoing sound of a whistle will instantly lure you into aquatic sports. The building also incorporates three gyms and one 250m track. All intramural games will take place at one of these places as well as Varsity Blues (varsity team of U of T) games. There is a fully equipped Strength and Conditioning Centre on the first floor of the AC although sometimes it could get drowsy with limited ventilation; therefore students are encouraged to use the machines in the Field House whenever possible. Each week, the AC will have a Drop-In Recreational schedule where students can meet others while casually playing a sport they like as well as classes (e.g. Zumba, Triple-Blast) they can attend.

## Hart House

Hart House seems to be its own franchised enterprise but it does provide free sports utility access to all U of T students. There are three squash courts, one Fit room, one weight room, a 25 yard pool, Lower Gym and Upper Gym. The Lower Gym can be booked by any U of T students once a week free of charge. It is quite nice to have a game of basketball or volleyball once in a while. Because it is such a worthy offer, it does come with a price: you will have to line up at Hart House on a Wednesday morning before 6:30AM rain or shine in order to reserve a spot for next week. If you arrive at 7:00AM, chances are you wish you'd stayed in bed instead. The Upper Gym has a 150m banked oval track with stationary bikes and other machines in the centre. Hart House sometimes even offer free Fitness Classes, be sure to check those out.

## Varsity Centre

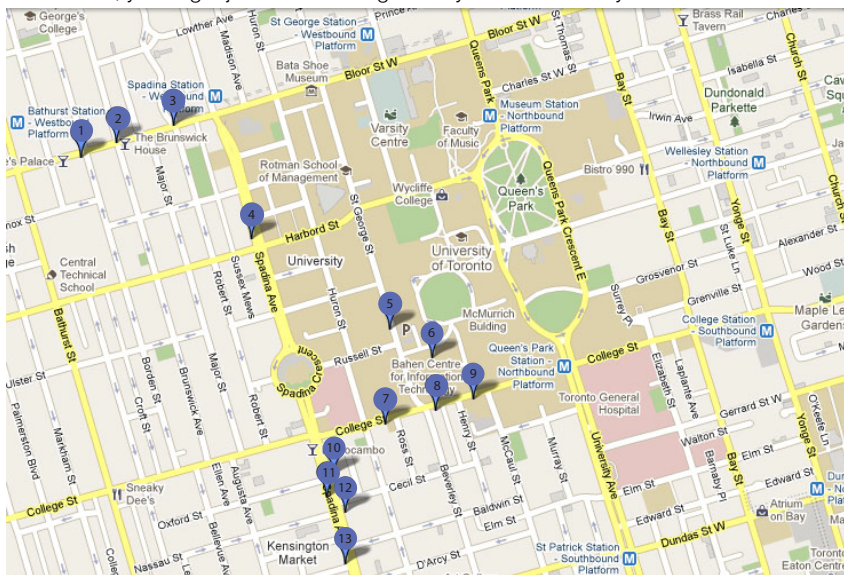
The only sports facility that is noticeable to the public is the large field on Bloor. With a 5000 seat stadium, a 400m eight lane artificial turf track and a Olympic sized ice rink, Varsity Field really brings U of T's sport facility level up a notch. It is usually the ground of the Varsity Track and Field team, Rugby team and the Ice Hockey team but students are free to run on the track at times when it is available. In the winter, the centre of the outdoor field is covered with an inflated dome. The dome, as well as the ice rink, can be rented out by anyone in the university or the public for a price tag of \$400-500, something only clubs could seem to afford.





# FOOD AND DRINK

One thing that you will find out very quickly in your time at school is that you'll want to know the best place to grab quick, delicious food. Whether you live in residence or you commute, the food at your res' cantina or whatever you bring from home can get tiresome extremely fast. As well, you might just need late night study fuel or a midday snack.



## 1 **Sushi on Bloor**

Address: 515 Bloor Street West

Website: [www.sushionbloor.com](http://www.sushionbloor.com)

Japanese - For cheap sushi, everyone in Toronto knows to go to this place. Expect to wait for a table on weekends, but it usually wouldn't take long. For less than \$10, you can get at least 12 pieces of maki.

## 2 **Future's Bakery and Cafe**

Address: 483 Bloor Street West

Cafe - Great place to just sit down and enjoy a coffee and its delicious pastries/cakes, but also provides inexpensive food! All you can eat perogies on Wednesdays, and \$5 UoT student breakfast are just few of the things they offer!

## 3 **Burrito Bandidos**

Address: 362 Bloor St W

Website: [www.burritobandidos.com](http://www.burritobandidos.com)

Mexican - One of the original burrito shops in Toronto. The portions are very generous for the price and will satisfy your hunger quite nicely.

## 4 **Papa Ceo & Cora's**

Address: 654 Spadina Avenue

Pizza - These two pizza joints that sit beside each other have created the biggest pizza rivalry in the city. Both provide huge portions for \$5 and if you ask which one's better, the general opinion is pretty much split, so go see for yourself!

## 5 **Blue Chip Truck**

Address: On St. George across from MP (the Physics building)

Burgers/Hot Dogs - A popular food truck amongst UoT students as they make some good burgers, hot dogs and poutine for cheap!



**6 Hard Hat Cafe**

Address: Sandford Fleming Basement

Variety - Owned and operated by your very own Engineering Society! Offers lots of different foods and drinks such as pizza, Jamaican patties, pop and instant noodles, at reasonable prices!

**7 Ein-stein Cafe & Pub**

Address: 229 College Street

Website: <http://www.ein-stein.ca>

Bar - The engineering pub. Everyone goes here for a good time and it's not unusual to see alumni here as well. Also the place for all Toike Oike content meetings!

**8 Starbucks Coffee**

Address: 205 College Street

Coffee - Self explanatory, but there's also a Bagel Stop in the store too, where you can get a bagel sandwich.

**9 Queen Slice Pizza & Pita**

Address: 177 College Street

Pizza - Do not get mislead by the name! Most people don't go here for the pizza, but for the chicken shawarma. It's cheap, delicious and ready in a minute. Great place to grab a quick lunch!

**10 Simon Sushi**

Address: 409 Spadina Avenue

Japanese - One of the myriad of sushi places around UofT. Has a large selection of food (maki, bento boxes, hot food, etc.) at very fair prices. Usually gives you at least a bowl of edamame on the house.

**11 New Ho King Restaurant**

Address: 416 Spadina Avenue

Chinese - Another legendary restaurant fond to engineers and every UofT student alike. Delivers to 4am on weeknights and 5am on weekends. The go-to place for people who feel hungry late at night from studying or partying.

**12 Kom Jug Yuen**

Address: 371 Spadina Avenue

Chinese - This place has been here forever and is advertised to be the Best BBQ Pork in North America! Every engineer has gone to this place at least once, so you should too. And yes, it is pronounced "Cum Jug".

**13 Pho Hung**

Address: 350 Spadina Avenue

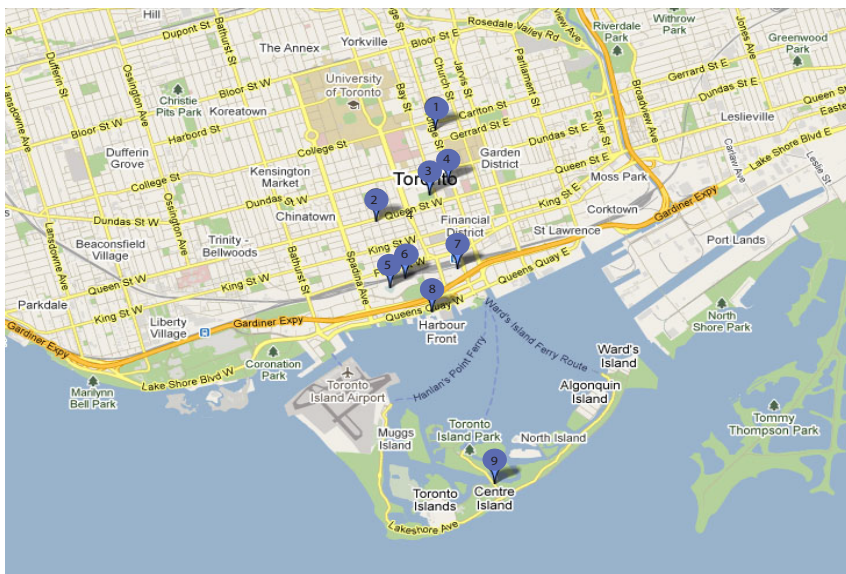
Vietnamese - Located in Chinatown, Pho Hung is one of the many Vietnamese restaurants, but it's definitely one of the most popular ones! Enjoy the Pho noodles, rice dishes and spring rolls!

The key thing to remember is that there are more options for food, drink, and general fun around campus than can be mentioned. The most important thing is that you explore the area, find what types of places suit you and your friends best, and make the most of your time here at school. Yes, sometimes you will have to work very hard, but you will always be happier and more successful if you take some time to enjoy these next four or five years of your life!

# PLACES TO GO IN T.O.

...In the streets of Toronto, fun awaits around every corner...

...But where can you find this fun?



## 1 Yonge Street

Being the longest street in the world, it goes from Lake Ontario all the way up to Lake Simcoe. But the part where you'd probably be spending your time in would be the one south of Bloor St. Here, there are hundreds of shops and restaurants for you to discover. It is always busy and full of people and interesting street performers, especially at Yonge-Dundas Square.

## 2 Queen Street West (between Yonge and Bathurst)

Another one of those quintessential streets to visit. Has everything from high-end boutiques to stores that sell weird novelty items, such as 'the Black Market'.

## 3 Nathan Phillips Square

Address: 100 Queen Street West

Website: [http://www.toronto.ca/city\\_hall\\_tour/nps.htm](http://www.toronto.ca/city_hall_tour/nps.htm)

Right outside the City Hall and 5 minutes away from the Eaton Centre, a nice hang out place in summer and a skating rink in winter! There's also a piece of Berlin Wall hidden somewhere in the square...

## 4 Toronto Eaton Centre

Address: 220 Yonge Street

Website: [www.torontoeatoncentre.com](http://www.torontoeatoncentre.com)

Biggest shopping mall in downtown Toronto that has almost every major brand name you can imagine, so it can easily satisfy most of your shopping needs. Got extra cash? Need a gift for someone important? Or just want to do some window shopping? This is your destination.

5 **Roger's Centre/SkyDome**

Address: 1 Blue Jays Way

Website: <http://www.rogerscentre.com/about/tours.jsp>

Home to the Toronto Blue Jays and Toronto Argonauts. The roof is retracted on nice days during a game. When you are tired of studying, buy yourself some peanuts and Cracker Jacks and go for a ball game with some friends.

6 **CN Tower**

Address: 301 Front St W

Website: <http://www.cntower.ca>

World's 5th tallest freestanding building, it consists of a main pod at 342 meters above the ground and a sky pod at 446.5 meters. What's the best thing to do up there? Confront your fear of height and take a walk on the exterior of the main pod.



**Rogers Centre and the CN Tower**

7 **Air Canada Centre**

Address: 40 Bay Street

Website: <http://theaircanadacentre.com>

Home to the NHL Team Toronto Maple Leafs and NBA Team Toronto Raptors. They'll never win, yet it's next to impossible to find tickets, especially Leafs games. Nonetheless, you'll probably have a good time cheering and heckling.

8 **Harbourfront Centre**

Address: 235 Queens Quay West

Website: <http://www.harbourfrontcentre.com>

For anyone who is interested in culture and arts, this a good place to start. Exhibitions and performances are held regularly there. For those who want more action? How about kayaking in summer or ice skating in winter?

9 **Centre Island**

It is an island on Lake Ontario right off the shores of Toronto (it is still part of the city). There is a ferry that you have to take to get over (costs about \$6), but once you get there, there are tons of things to do and see. It has plenty of open space where you can bike, barbeque, disc-golf...

So if all of that is not enough to satisfy your need to do things, go explore the city, find its hidden secrets and spots for you and your friends to hang out. Toronto always has shows and bands playing around the city, festivals going on, and stuff to do. And if all else fails, you can always go to the movies (AMC at Dundas Square, Scotia Theatres at John St., and other small theatres around). You should also pay a visit to some of the museums the city has to offer (the ROM, the AGO, Casa Loma). Go discover!



EPISODE III

# EXTRAS

# GODIVA'S HYMN

Every engineer must know ALL the lyrics to the glorious Godiva's Hymn! Okay well, maybe the upper years still haven't figured out the lyrics past the first two or three verses, but the more you memorize, the more points you'll get as being the coolest among the Frosh.  
(Tune: The Battle Hymn of the Republic)

Godiva was a lady, who through Coventry did ride,  
To show to all the villagers her fine and lily-white hide.  
The most observant villager, an Engineer of course,  
Was the only one to notice that Godiva rode a horse.

(CHORUS)

We are, we are, we are, we are, we are the Engineers,  
We can, we can, we can, we can demolish forty beers,  
Drink rum, drink rum, drink rum, drink rum and come along with us,  
For we don't give a damn for any damn man who don't give a damn for us!

(OPTIONAL FEMALE CHORUS)

We are, we are, we are, we are the female Engineers,  
We can, we can, we can, we can drink just as many beers,  
Drink rum, drink rum, drink rum, drink rum and come along with us,  
For we don't give a damn for any damn man who can't get it up for us!

Said she, "I've come a long, long way and I will go as far  
With the man who takes me from this horse and leads me to a bar."  
The men who took her from her steed and led her to a beer,  
Were a blurry-eyed surveyor and a drunken Engineer.

Any Civil Engineer can go for days and days  
Describing how concrete is used in oh-so many ways,  
But not till one dark gray night of true debauchery  
Was using it to float a boat considered one of these!

An Artsie and an Engineer were stranded on a boat,  
One passenger too many, the poor boat couldn't float.  
The Engineer would toss a coin to settle the dispute,  
He tossed it in the water and the Artsie gave pursuit.

When Mechs are feeling thirsty and when Civs are all worn out,  
There's one place you can go, and that is SUDS without a doubt.  
So next time you drink a rich, cold, golden, icy, frothy beer,  
Get on your worthless knees and thank a Chemical Engineer!

An Engineer once came to class so drunk and very late,  
He stumbled through the lecture hall at an ever-diminishing rate.  
The only things that held him up and kept him on his course,  
Were the boundary condition and electromotive force.

Ace Towing roams the streets of Yorkville each and every night,  
They tow the cars, and stow the cars and hide them out of sight.  
They tried to tow Godiva's Horse, the Engineers said "Hey!"  
They towed away the towing truck, and now the Ace must pay.

A UofT Computer man got drunk one fateful night  
He opened up the console and smashed everything in sight.  
When they finally subdued him, the judge he stood before  
Said, "Lock him up for twenty years, he's rotten to the core!"

# GODIVA'S HYMN

The Romans fed their concrete mix the blood of ox and men  
The Mafia uses theirs to teach a lesson now and then  
But for all their pretty tricks their evil cannot even tie  
Our trusting it in a canoe to float and keep us dry!

An artsie lad in robes was clad and set to graduate,  
A pompous gleaming spectacle he was upon that date.  
But not a quarter hour after he got his degree,  
He was serving fries to engineers from S-K-U-L-E!

In Arts and Sci and at York there are countless untruths told,  
About how our women Engineers are frigid, strange and cold.  
But truth be told we men prefer lady Engineers, of course  
And sleep with women learning friction, motion, stress and force.

Godiva died, and where she lies, a bench-mark shows the spot  
In any engineering text, its level can be got.  
Godiva's now in Heaven, where she daily prays for beer,  
But she'll have to wait till Heaven gets a Resident Engineer.

Godiva was a lady well-endowed there was no doubt,  
She never wore a stitch of clothes, just wound her hair about.  
The first man who ever made her was an Engineer, of course,  
But on just one drink an Artsie fink once made Godiva's horse!

A man sat in a tavern with a lovely Toronto lass  
And stared when more than nineteen times she raised and drained her glass.  
He said "You've outdrunk four strong men, and half the bar, my dear."  
But the maiden smiled demurely and said she was an Engineer.

We saved our dough for years to send the kid to UofT  
Although we knew it was a place of wild depravity,  
But now we know our kid is safe and we should have no fear  
He's never even heard of sex cause he's an Engineer.

My father was a miner from the Northern Malamute,  
My mother was a mistress in a house of ill repute.  
The last time that I saw them both these words rang in my ears,  
"Get out of here you son of a bitch and join the Engineers."

Other schools have mascots and they think that theirs is best,  
But when it comes time, theirs do fail to pass the test.  
Phallic imagery with mascots seems to be the norm,  
But the Cannon is the only one that can truly perform!

Industrials have got the dates and that is a known fact.  
It's not the way they part their hair, or in the way they act.  
It's that they're such good lovers with that extra special touch,  
Since you have to get that skillful when you fuck the dog so much.

Elvis was a legend, he's the King of Rock & Roll,  
But the life that he was leading, well it finally took its toll.  
He realized too late that he chose the wrong career,  
So he faked his death, and came to Skule to become an Engineer.



The Army and the Navy boys went out to have some fun,  
Down to the local tavern where the fiery liquors run,  
But all they found were empties, for the Engineers had come,  
And traded all their instruments for gallon kegs of rum.

An Eng Sci man from UofT went out and drank his fill.  
He came then to a strip joint, 'cause he had some time to kill.  
The motions that he witnessed there excited all his nerves,  
And he filled eleven napkins with equations of the curves.

The modern engineer must be politically correct,  
No more motors lubricating, no more buildings rise erect,  
No more electrical capacitors whose plates are high and fair  
Instead of problem solving let's just sit around and care.

UofT was UofT when Ryerson was a pup,  
And UofT will be UofT when Ryerson's time is up,  
And any Ryerson son of a bitch who thinks he's in our class,  
Can pucker up his rosy lips and kiss our purple ass!

For 50 years the Engineers at Queens have had our pole,  
From Varsity they took it, and their F!rosh week was its role,  
But 28 of our own went down, and with a cunning plan  
We opened up an unlocked door and brought it home again!

Late one night, an Engineer was lost in work and toil,  
He set off to find a darling girl to help discharge his coil.  
In little time he'd warmed her up, her resistance at a low,  
They fluxed until the morning's light, when their fuses, they did blow.

On reading Kama Sutra, a guy learned position nine.  
For proving masculinity, it truly was divine.  
But then one day his girl rebelled and threw him on his rear,  
For he was a feeble Artsie and she was an Engineer.

The Artsie thought he had it all, his girlfriend disagreed  
One day she up and left him; he could not fulfill her needs  
"Where are you going?" The Artsie cried, half-naked from the dorm,  
"To find an Engineer," she said, "At least they can perform!"

Some Engineers from UofT got loaded on a bus,  
The driver took them to a town a long, long way from us.  
They drank the local tavern dry and went to look for more,  
When they couldn't find another bar, they stormed the liquor store!

Engineers made tribute to the Cannon's might and Skule™,  
Their cinematic expose turned out to be a jewel.  
Soon after Innis was found bare and the campus rang with fear,  
The Faculty of Film had been replaced with Engineers!

We heard the old professor is ending his career  
We thought we'd help him celebrate and bring a keg of beer,  
But when we thought that we would have to share it with you all  
We thought about it once again and drank it in the hall.

# GODIVA'S HYMN

The year that Mikey's double cohort came to UofT,  
The F!rosh were not just underaged, but knew no High School glee.  
When the campus parties all went dry, SUDS still flowed with beers,  
And those sober college Artsies thanked their God for Engineers.

I'm graduating Eng Sci, and I feel I have to pout,  
There's one thing in the world I have yet to figure out.  
It's something Eng Sci drop outs seem to pick up from the Mechs,  
Apparently it's pleasurable, I think they call it sex.

A fire hose by day and forty beers by night,  
An Engineer may never sleep and still stay just as bright.  
And if you ever ask her how she keeps up her routine,  
She'll raise her trusty can of Jolt, smile and say "Caffeine!"

We'd like to welcome all the parents here to UofT,  
But there are lots and lots of things we'd like you not to see.  
Like sex and drugs and rock & roll, and kegs and kegs of beer,  
But we would never touch the stuff 'cause we're the Engineers.

The Jerry P. Potts trophy for the chariot race at SkuleTM  
Had been stolen from the fold but Mario said, "Dis ain't cool".  
So Mario recovered it, returned it to the throngs,  
On the condition that the SkuleTM mates sing his praises in their song.

Venus is a statue made entirely of stone,  
There's not a fig leaf on her, she's as naked as a bone.  
On noticing her arms were gone, an Engineer discoursed,  
"The damn thing's busted concrete and it should be reinforced."

We're the biggest group of Engineers here studying our craft,  
But we're mostly Eng Sci failures, so we usually get the shaft.  
Us poor Elecs and Comps, we have no verse to sing alone,  
But after all we are all nerds, so here, we wrote our own!

Professors put demands on us, they say we have to tool,  
But all we want to do is sleep, WE HATE THIS FUCKING SCHOOL!  
You can bitch or tell us off, abuse us if you please,  
But we're all set to graduate and ALL WE NEED ARE C'S!

A UofT Engineer once found the gates of Hell,  
Looked the devil in the eye and said, "You are looking well."  
Satan just returned the glare and said, "Why visit me?"  
You've been through Hell already, since you went to UofT!

Caesar set out for Egypt at the age of fifty-three,  
But Cleopatra's blood was warm, her heart was young and free.  
And every night when Julius said goodnight at three o'clock,  
A Roman Engineer was waiting just around the block.

A wide-eyed Artsie Chemist and a Chemical Engineer  
Were formulating molecule equations over beer.  
Each drank a glass of water, but the Artsie hit the floor,  
For what he thought was  $H_2O$  was  $H_2SO_4$ !

An Elec and a Comp challenged wits in a Bahen hall  
Students gathered all around to watch the two great students brawl,  
The Elec spoke of flux and fields for a minute, two or three,  
But the Comp kept droning on and on and on recursively!

TrackOne is a discipline for those who cannot choose.  
Because we can't make up our minds, the Faculty gives us food.  
If you ask us where we're going we'll say "ask another day",  
(but) if Cohen has his way with us, we may be here to stay.

I happened once upon a girl, who eyes were full of fire,  
Her physical endowments would have made yours hands perspire.  
To my surprise she told me that she never had been kissed,  
Her boyfriend was a tired Engineering Scientist.

All Eng Sci types in second year are really in a plight,  
They're the masochistic ones, who haven't seen the light.  
After two more years they will be just as brain dead,  
As any first year Civil Engineering cement head.

A maiden and an Engineer were sitting in the park,  
The Engineer was busy doing research after dark.  
His scientific method was a marvel to observe,  
While his right hand wrote the figures down, his left hand traced the curves.

Copulation, fornication, penetration, fuck,  
Rim job, reem job, nose job, blow job, cunnilingus, suck,  
Eating beaver, dipping wick, and taking it in the rear,  
These words don't mean a thing to me, 'cause I'm an Engineer!

An Artsie and Engineer once found a gallon can,  
Said the Artsie, "Match me drink for drink, as long as you can stand."  
They drank three drinks, the artsie fell, his face was turning green,  
But the Engineer drank on and said, "It's only gasoline."

My father peddles opium, my mother's on the dole,  
My sister used to walk the streets, but now she's on parole,  
My brother runs a restaurant with bedrooms in the rear,  
But they don't even speak to me 'cause I'm an Engineer.

As legend goes an apple fell on poor Sir Isaac's head,  
And Newtonian Mechanics then was born, took hold and spread.  
Too bad he was a physicist and not an Engineer,  
If he wore a hardhat, we'd have less class and more beer!

Now you've heard our story and you know we're Engineers,  
We love to hate our problem sets, we love to drink our beers.  
We drink to every person who comes here from far and near,  
Cause we're a HELL-OF-A, HELL-OF-A, HELL-OF-A, HELL-OF-A HELL-OF-AN-ENGINEER!

# CHEERS AND SONGS

## Skule™ Yell

(Sing this whenever the Cannon is fired)

Toike Oike, Toike Oike,  
Ollum te cholum te chay.  
School of Science, School of Science,  
Hurrray, hurrray, hurrray.

We are (we are),  
We are (we are),  
We are the engineers,  
We can (we can),  
We can (we can),  
Demolish forty beers,  
Drink rum (straight!),  
Drink rum (straight!),  
And come along with us,  
For we don't give a damn for any damn  
man  
Who don't give a damn for us!

Yay, Skule™! (Jump up while you do this.)

## Sesame Street

Sunny days, sweeping the clouds away,  
On my way to where the air is sweet.  
Can you tell me how to get,  
How to get to Sesame Street?  
How to get to Sesame Street?

I don't know the words to the second  
verse,  
I just make'em up as I go along.  
Can you tell me all the words,  
All the words to Sesame Street?  
All the words to Sesame Street?

## Mailman

I am happy, I am gay,  
I come each and every day,  
I'm your mailman.  
I knock your knockers, I ring your bell,  
Don't you think that I am swell?  
I'm your mailman.  
I can come, in any kind of weather.  
Don't you know my bag is made of leather.  
I don't mess with doors or locks,  
I just shove it in your box,  
I'm your mailman.

## Engineering Drinking Song

Here's to "name" x2  
Here's to "name", he's/she's a horse's ass  
Why was he/she born so pitiful  
Why was he/she born at all!  
He's/She's no fucking use to anyone,  
He's/She's no fucking use at all!  
So drink motherfucker (if the victim is  
male)  
OR  
So drink silly bitch (if the victim is female)

## A Soldier's Tale

A sol-, a sol-, a soldier I will be  
Two pis-, two pis-, two pistols on my knee  
For cu-, for cu-, for curiosity  
As we fight for the old count-, fight for the  
old count-, Fight for the old country!

Harass, harass, harass him in the dark  
Each hit, EACH HIT, each hit will find its  
mark  
A hor-, a hor-, a horse will carry me  
As we fight for the old count-, fight for the  
old  
count- Fight for the old country!

## Hey, Look Us Over

Hey, look us over,  
Lend us an ear,  
The Lady Godiva Memorial Bnad is here!  
We've got the music,  
We've got the jive,  
We may be in a drunken stupor but we're  
still alive.  
So if you don't like our "music,"  
Give us a beer,  
And maybe next time we will disappear,  
For we still got a little bit left to drink,  
Like maybe forty beers,  
After all we're engineers.

## Rubber Ducky

Rubber Ducky, you're the one.  
You make bathtime so much fun.  
Rubber Ducky I'm awfully fond of you.  
Boo boo de doo!

Rubber Ducky, joy of joys,  
When I squeeze you, you make noise.  
Rubber Ducky, my very best friend is you!

One, two, three, four!

Everyday when I make my way to the  
tubby,  
I find a little fella who's cute and yella and  
chubby.  
Rubber dubber ducky!

Rubber Ducky, you're so fine,  
And I'm happy that you're mine.  
Rubber Ducky, I'm awfully fond of,  
Rubber Ducky, I'd love a whole pond of,  
Rubber ducky, I'm awfully fo-o-o-o-o-o-o-  
nd of you, too, boo-boo-de-doo!

## Marching Bands

When marching bands and policemen fall  
in line,  
We've got to win the game another time,  
And for the BLUES I yell, yell, yell, yell,  
yell,  
And for the University I yell like hell!  
We're going to fight, fight, fight for every  
yard,  
Circle the ends and hit the line right hard,  
And throw the enemy upon the side  
(HIT 'EM HARD) RAH! RAH! RAH!

[MARCHING BNADS]

When polar bears and penguins fall in line,  
We've got to wing for the Arctic another  
time,  
And for the Moose I yell, yell, yell, yell, yell,  
And for the Albatross I yell I yell like hell!  
We're going to fly, fly, fly, for every yard,  
Circle the ice and hit the tundra hard,  
And throw the polar bears upon the ice  
(HIT 'EM NICE) OOL! OOL! OOL!

## Why Are We Waiting?

Sung to the tune of (Oh Come All Ye Faith-  
ful)

Why are we waiting? x2  
Oh, why are we waiting?  
Oh, why do we wait?  
Why are we waiting?  
We could be integrating (or fornicating, or  
masturbating, or whatever else rhymes)  
Why are we waiting? x2  
Oh, why do we wait?  
Why are we waiting?

Where are we going? x2  
Oh, where are we going?  
Oh, where do we go?  
Where are we going?  
At least it isn't snowing.  
Where are we going? x2  
Oh, where are we going?  
Oh, where do we go?

We want attention. x2  
Oh, we want attention.  
Attention, we want.  
We want attention,  
At least an honourable mention  
We want attention. x2  
Oh, we want attention.  
Attention, we want.

We need more verses. x2  
Oh, we need more verses.  
Verses, we need.  
We need more verses,  
At least it isn't curses.  
We need more verses. x2  
Oh, we need more verses.  
Verses, we need.

# MONEY/SCHOLARSHIPS

Losing a few too many pod races lately? Need more money to get new parts? Luckily, there are always these resources you can turn to:

## **The Ontario Student Assistance Program (OSAP)**

Provides loans to Ontario-residents. The loans are interest-free as long as you are enrolled in full-time university study. [www.osap.gov.on.ca](http://www.osap.gov.on.ca)

## **University of Toronto Advanced Planning for Students (UTAPS)**

UTAPS is set up for people who have already received maximum assistance from OSAP and still do not have the necessary financial aid. The great thing is that you will be automatically considered, and you don't have to pay the money back! [www.utaps.utoronto.ca](http://www.utaps.utoronto.ca)

## **Ontario Student Opportunity Trust Fund (OSOTF) Awards**

For admission OSOTF Awards, it is crucial that an admission applicant complete a UTAPS application in order to demonstrate financial need. [http://www.adm.utoronto.ca/fa/utaps/utaps\\_info.htm](http://www.adm.utoronto.ca/fa/utaps/utaps_info.htm)

## **Faculty Grants**

If you have exhausted all other means of support and still find yourself in financial difficulty, the Faculty can provide assistance in the form of a grant. Fill in an application. [http://www.undergrad.engineering.utoronto.ca/support/financial/assistance/Faculty\\_Grants.htm](http://www.undergrad.engineering.utoronto.ca/support/financial/assistance/Faculty_Grants.htm)

## **Scholarships and Awards**

Students in the faculty are considered for scholarships and awards upon admission and after each academic year. <http://www.undergrad.engineering.utoronto.ca/information/awards.htm>

## **In-course scholarships**

Please ensure that your online Engineering Portfolio <https://www.apsc.utoronto.ca/ePortfolio/> is complete and up-to-date. The Scholarships Committee will use the information in the Portfolio to assist them in selecting recipients for these awards. Note this is only available to students in second year and above.

## **External Scholarships, Awards and Grants**

Look at other websites for more information. <http://www.canlearn.ca/>

Students should also check the scholarships bulletin board located in the Galbraith Building, outside room 153 for information about external scholarships for which they may be eligible.

## **UTSU Book Bursary**

Offered by the UTSU and U of T Bookstore, the bursary is a partial reimbursement for the costs associated with purchasing textbooks. <http://www.utsu.ca/> For more information go to <http://www.undergrad.engineering.utoronto.ca/support/financial/assistance.htm>



# CONTACTS

Need some help? Here's a list of the people who run things around here!

Position	Name	Email (@skule.ca)
President	David Cheung	president
VP Finance	Jonathan Ng	vpfinance
VP Communications	Maegan Chang	vpcomm
VP Academic	Freddy Chen	vpacademic
VP External	Gordon Tang	vpexternal
VP Student Life	Owyn Notario	vpstudentlife
Archivist	Nicole Cyhelka	archivist
Cafeteria Finance Manager	Kazem Kutob	cafeteria
Cafeteria Operation Manager	Vincent Tse	cafeteria
Cannon Editor	Betari Prakoso	cannon
Cannonball Chair	Nicole D'Mello	cannonball
Career Fair Director	Yi Wei Ang	careerfair
Chief Returning Officer	Rafal Dittwald	cro
Community Outreach	Nancy Ho	community
Comp Sys Admin	Rishi Maharaj	sysadmin
F!rosh Handbook Editor	Chunkei Tang	handbook
Gradball Chair	Kelly Bryck	gradball
Hi-Skule™ Liaison	Terrence Lau	hiskule
Ombudsperson	Deepak Jayaram	ombudsperson
Orientation Chair	Abhishek Mathur	orientation
Skulebook Editor	Jocelyne Chan	skulebook
Sponsorship	Alberto Picard-Ami	sponsorship
Stores Finance Manager	Victor Zhang	stores
Stores Operations Manager	Sonia Liscio	stores
Suds Finance Manager	Ryan Mintz	suds
Suds Operation Manager	Laurie Charpentier	suds
Toike Oike Editor	Andrew Jerabek	toike
UTEK Director	Layan Kutob	utek
Webmaster	Ben McCanny	webmaster
Blue and Gold Chair	Luis Ramirez & Sandra Sousa	blueandgold
Chief Attilliator	You Wish!	kaboom
EAA President	Sam Lane	eaa
LGMB Leedur	Richard Medal	lgmb
Skule™ Nite Liaison	Wayne Lin & Ian Parker	skulenite

# CONTACTS/WEBSITES

## Departmental Counsellors

Someday, you might run into situations where you need some academic advice. They could include concerns about your program, elective course selection and career paths. That is what your academic counsellors are for! They are here to help you succeed and are glad to help a F!rosh in need. Below is the contact information of the counsellors of each specific discipline.

Discipline	Counsellor	Email	Room
Chemical	Jane Park	ugrad.chemeng@utoronto.ca	WB 216
Civil/Mineral	Shayni Clarke	shayni@civ.utoronto.ca	GB 105
Electrical/Computer	Linda Espeut	linda.espeut@utoronto.ca	SF B600
Engineering Science	Nicole Adoranti	nsci1_2@ecf.utoronto.ca	BA 2110
Materials	Maria Fryman	mse@ecf.toronto.ca	WB 140
Mechanical/Industrial	Nicole Treston	undergrad@mie.utoronto.ca	MC 109
TrackOne	Lesley Mak	lmak@ecf.utoronto.ca	GB 170

## Skule™ Website

**[www.skule.ca](http://www.skule.ca)**

The official site of the University of Toronto Engineering Society. It's your number one resource for keeping up to date with all of the awesome stuff that happens at Skule™ all year round. You can lurk all of the recent and upcoming events, check out all of the sweet clubs and student groups, sign up for your own personalized mailing list of Skule™-goodness, and marvel at how talented and attractive the SKULE.ca webmaster must be.

## Skulepedia

**[Skulepedia.ca](http://Skulepedia.ca)**

Skulepedia is UofT Engineering's own wiki. Want to know more about the history and traditions of Skule and how we got to be the way we are? Browse through our articles! It is a source of information for all Skule™-related things. It is a repository maintained by students and alumni of Skule™ who are proud to have gone through our great institution, with its grand traditions and deep history. Gathered here is a collection of stories and legends from the University of Toronto Faculty of Applied Science and Engineering.

The goal of Skulepedia is to comprehensively collect and organize information about Skule™ life over the years.

We welcome the participation of all Skulemates and alumni to help us along the way. We are actively looking for historical material, from photos, films, publications, memorabilia and more to enrich our knowledge.

## SkuleTube

**<http://www.youtube.com/user/SkuleTube>**

SkuleTube is the Official YouTube Channel of the University of Toronto Engineering Society. You'll find an archive of old Skule™ videos and new stuff frequently updated as well!

## Skule™ on Facebook & Twitter

**[www.facebook.com/UofTskule](http://www.facebook.com/UofTskule) & [@SkuleTM](https://twitter.com/SkuleTM)**

Skule's fanpage can be found at the site a line above. The Engineering Society Officers keep it updated so you know what news is breaking around Skule™. You'll find news about everything from events to important faculty news, so if you want to keep up to date with what's going on make sure to like Skule™!

## A

**ArtSci** – (noun) The Galactic Empire to our Rebel Alliance. Their advantage lies on sheer numbers but like the Empire, anything they mass produce is of very poor quality.

## B

**Bell curve** – (noun) The process by which a very hopeless situation or grade magically gets better, just like how the Ewoks somehow beat the vastly technologically superior Stormtroopers in the Battle of Endor.

**BEvERages** – (noun) read between the lines...

**BFC** – Sorry, typo. I meant to say nothing.

**Big Bang Theory, The** – They ought to make watching this as one of two core requirements to gain admittance to Engineering.

**Blue & Gold** – 1. (noun) Skule™ colours. 2. (noun) Two people that will provide you with lots of fun social events.

**Bnad, The** – (noun) Pretty much the greatest marching band in history, so great that they must be closely followed by the cannon to protect from jealous artsies.

## C

**Calculus** – (noun) If you're Core 8 and TrackOne, it's your single-bladed lightsaber. If you're EngSci, it's your double-bladed lightsaber; most of the time you end up stabbing yourself.

**Cannon** – (noun) Our very own Death Star. Protected at all costs and is always accompanied by the trusty shield generator team (Cannon Guards) and have only failed twice in preventing the Cannon from being stolen.

**CHEM** – Chemical Engineering. Where the Leia's and Padme's of your batch will most likely go.

**CIV** – Civil Engineering. The people who at the end of four years realize calculus is of zero use when building bridges.

**Commuter** – (noun) person who sleeps in common rooms, other people's dorms, the Pit, etc. a couple times a week.

**Convocation Hall**– If you have lectures here, either drink coffee or bring a pillow.

## D

**Delta Epsilon** – two Greek letters which

are simple until combined. These kind of proofs are usually quite challenging and are unique to EngScis.

## D

**Derp** – placeholder for unimportant or foolish dialogue. e.g. "I was at the EngSoc Board of Directors meeting, and everyone was like 'derp derp derp derp!'" Partners well with "herp".

## E

**ECE** – Electrical and Computer Engineering. People who have a loyalty rewards card with the ECF labs and have an aversion to showering.

**EngSci** – Engineering Science. High school kids who act like Anakin. Very overconfident coming in, and they get de-limbed, set on fire and practically enslaved to their dark master over the years.

**EngSoc** – (noun) Engineering Society. Student government for Skule™. Run by the goldfish that lives in the office.

**Ex-Engsci** – Pretty much everyone.

## F

**Firosh** – (noun) that's you, silly F!rosh. You get to be a second year when next year's class walks out of Con hall for the first time during F!rosh week 1T2. Until then, do your best to impress upper years with your antics.

## G

**Girl** – (noun) see CHEM.

**Godiva Week** – A mixture of the celebrations seen in the closing scenes Episodes 1 and 6, minus the kids, Gungans and Ewoks. For further details, look at the giant poster hanging by the SF Atrium on the first week of the Winter Term.

## H

**Hardhat** – 1. (noun) A decorated symbol of membership, is as useful to you in your studies as an X-Wing pilot's helmet is useful to the pilot when being chased (and potentially blown up) by TIE fighters. 2. Screaming "Hardhat" implicitly makes all F!rosh leaders chase down the thief of your

# GLOSSARY

hardhat. DO NOT INVOKE LIGHTLY.

## I

**INDY** – Industrial Engineering. The Chewbaccas to MECH.

**Iron Ring** – (noun) a \$40,000 bottle opener.

## J

**Jacket** – (noun) Engineering fashion item and symbol. Usually emblazoned with engineering slogans. Only for upper years!

## K

**Keener** – (noun) A person who sits at the front of the class, tries to answer all the prof's questions and gets upset when they "only" got a 90 on the midterm. Usually very annoying.

## M

**MECH** – Mechanical Engineering. The Han Solos to the INDY.

**Mice** – (noun) UoT campus police. Known to ruin our fun.

**MIN** – Mineral Engineering. As of date, the rarest kind of engineer in our faculty. There are just as many MINs in your batch as there are purple lightsabers in the entire saga.

**MSE** – Material Science Engineering. Chemistry heavy and probably only exists to cater to guys because CHEM is overpopulated with girls.

## P

**Pit, The** – (noun) Basically the best place ever. You should spend all your time here. It's like headquarters for awesome. Located in the basement of SF.

**Praxis** – (noun) Unique to EngScis. We have no idea what it is. Probably never will.

**Problem Sets** – (noun) Doing them in groups will be as difficult as cutting down a squad of battle droids. Doing them alone will be as difficult as defending against a squad of destroyer droids.

**Programming** – (noun) While doing this, you will feel that the computer is twice as annoying as Jar Jar Binks and if you're not careful, will similarly ruin your own Episode 1 in the Fall.

## Q

**Queen's** – (noun) Another big engineering school. Skule™'s big rival. The only other engineering faculty that even comes close (but is still pretty far) to Skule™ for spirit.

## S

**Segmentation Fault** – (noun) A programming error that is impossible to find and it is usually quicker to start over. Often causes insanity.

**Shower** – 1. (verb) To bathe. 2. (noun) What ECE's should remember to do.

**Skule™ Nite** – (noun) Engineers trying to be theater artsies. As usual, whatever they can do, we engineers can do better and funnier! F!rosh get free tickets!!!

**Sleep** – (noun) We don't use this word around here.

**Star Wars** – They ought to make watching this as one of two core requirements to admit you to Engineering.

**SUDS** – (noun) The Mos Eisley Cantina of engineers, minus the aliens and opens on Fridays only.

## T

**Toike Oike** – (noun) The real engineering newspaper. Try not to get offended.

**TrackOne** – A discipline for the indecisive. All silly F!rosh.

**TrackTwo** – What TrackOne kids wished there was so they could still prolong their decision.

## U

**Upper Year** – (noun) Grizzled veterans of Skule™. You should follow their lead.

**UTSU** – (noun) University of Toronto Student Union. Student government that all undergrads belong to. They don't really do anything, except take our money. Used to be known as SAC, but that sounded too much like genitalia.

## W

**Waterloser** – (noun) A Waterloo engineer. No school spirit. Aren't you glad you didn't go there?



EPISODE II

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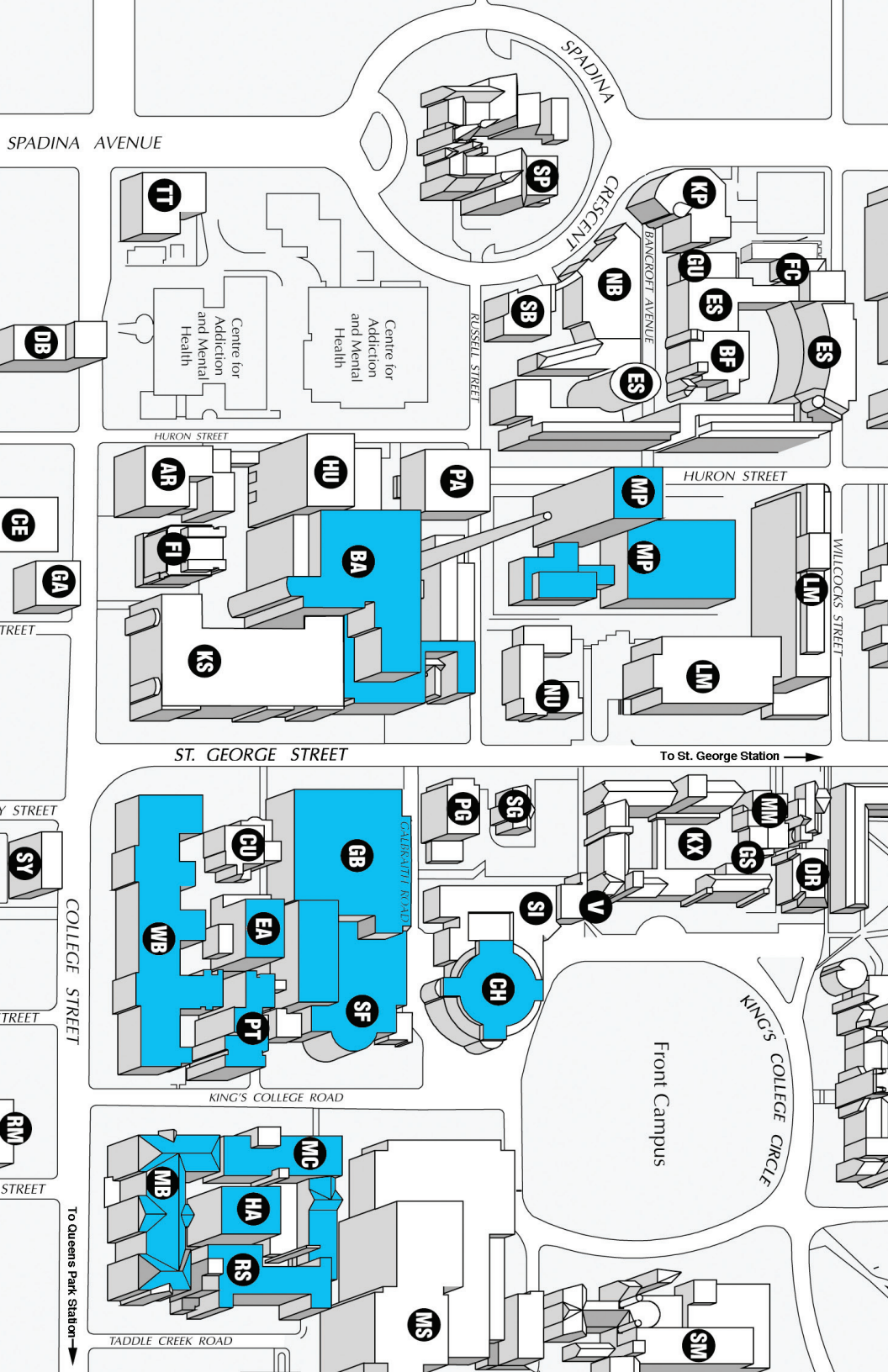


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