

Welcome to Carleton! Make sure you hang on to this book, as it contains some helpful tips to get you through this exciting year!

This Book Belongs to

Name:	
Stream:	
Phone:	
Email:	

We Remember.



December 6, 1989, an armed man killed 14 women, and injured 13 other individuals at Polytechnique Montréal. Still incomprehensible to this day, this anti-woman attack stunned the entire country, and sent shockwaves throughout the entire world.

The triumphs and successes of our community are the most sincere way to honour the 14 women whose lives and dreams were dramatically and unjustly cut short.

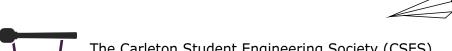
In response to this tragedy, the White Ribbon Campaign was launched to raise awareness in hopes of ending violence against women.

Male feminists within Canada have adopted the movement to engage men, young men, and boys through relevant educational programming that challenges languages and behaviors, as well as harmful ideas of manhood that lead to violence against women.

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Carleton Student Engineering Society



The Carleton Student Engineering Society (CSES) has proudly been serving its members for over 30 years. Located in ME 3390, our goal is to provide our members with academic, professional, and social resources to assist in making these next four (or more) years at Carleton University that

much smoother. We also represent our members on the provincial and national levels of engineering societies. We provide social events throughout the year, allowing engineering students to take a break from their studies and let loose a little. Some of the major events include Month, the Carleton Engineering Engineering National Competition, Ring Day receptions, and Reflections (our formal). With your support, CSES also provides members services, including our volunteer-run Café Leonardo's Lounge, equipment loan program, a textbook trade and library, our satirical newspaper The Iron Times, funding for student clubs and projects, workshops, and cheap printing on campus!

Should you have any questions about what we do or how you can get involved, drop by our office, visit our website, or feel free to email us at questions@cses.carleton.ca. Our members make it possible for us to provide the high quality services and events they deserve - we thank you for your support and look forward to another great year!



look for @mycses on your preferred platforms



Meet The CSES Team





My name is Ryan Campbell and I am your Carleton Student Engineering Society (CSES) President for this year! I am in my fifth year of Software Engineering and in my free time I enjoy model building, board games and parliamentary proceedings. CSES provides advocacy for our members, and represents you to our Faculty, provincially and nationally. If you're in an undergraduate engineering program, then you're a member! We also offer many great services and events of which some are listed in this handbook!

As CSES President, I oversee the CSES Council which includes the Executive and Program Representatives to ensure we operate without issue to the benefit of the Carleton Engineering community.

President: Ryan Campbell (he/him)

Hey C-Eng! My name is Shaun Seneviratne and I am your VP Internal for the 2022-2023 year! I am in my third year of Aerospace Engineering (Stream A) with a minor in business and I'm from Ottawa. As your VP Internal, I am responsible for any internal affairs regarding CSES. This ranges from overseeing CSES policy, all technical assets, Pewter Mugs for graduating students, the Engfrosh Pancake breakfast, Ring Day Festivities and much more! I'm also here to assist you with any questions or concerns you have regarding CSES. I look forward to seeing you all and for a great year ahead!!



VP Internal: Shaun Seneviratne (he/him)



VP Finance: Zahira Bakr (she/her)

Hi! I'm your VP Finance for this upcoming year! I'm in my fourth year of Software Engineering, I'm a heavy Minecraft enthusiast, and you can usually find me around the Mackenzie 3300 block. Over my time at Carleton, I've been involved with numerous C-Eng groups, started Carleton's Lettuce Club, and you may even recognize me from EngFrosh. Under my portfolio, you can look forward to some swanky financial seminars, and the wonderful Student Group Funding (SGF) process. I make sure the entirety of the Society has the money it needs to run all the cool things it does, and I definitely find it super rewarding. If you ever have any questions please feel free ask!

Meet The CSES Team





I'm Gavin O'Connor, I'm in my second year of Mechanical Engineering and am VP Academic this year. As VP Academic, I run the Carleton Engineering Competition (C-Eng-C), National Engineering Month (NEM), as well as various academic workshops over the course of the year. I am very excited for this position, and look forward to meeting you all over the course of the year.

VP Academic: Gavin O'Connor (he/him)

Howdy C-Eng! My name is Ayesha and I'm your VPX this year. I'm in my third year of Aerospace Engineering (Stream B) and I'm from the UK but lived in Ottawa mostly. I enjoy flying, crafting, and the outdoors. As VPX, I communicate with external organizations such as ESSCO and CFES and send some of you to their conferences to learn and grow as a student leader! I am also involved with Movember, Boobies, and the C-Eng hockey team. Feel free to reach out about these cool opportunities or just to say hi!



VP External: Ayesha Dassayanake (she/her)



Hey everyone, I am Chris Montague, your CSES VP Services for the upcoming school year. I want to welcome you to the wonderful Carleton Engineering community. As VP Services, I mainly run the merch store and Leo's cafe, so please stop at Leo's or the CSES office and say hello! If you have any ideas for new merch items, don't hesitate to contact me, and I would love to talk about new opportunities.

VP Services. Christopher Montague (he/him)

Meet The CSES Team





Looking for some ways to socialize and start getting involved this year? As VP Social I organize CSES social events hosted throughout the year, such as our formal, semi-formal, EngBowl, other fun events and running CSES Intramural teams. Most of these events happen to be stamps for the Flightsuits' passport if you are interested in trying to earn a Flightsuit of your own this year.

A little introduction to me: my name is Alex and I am in my 3rd year of Environmental Engineering! I am originally from New Brunswick, but have lived in a few different provinces. Come say hi in the office!

VP Social: Alexandra Greer (she/her)

Hello C-Eng! My name is Willem! I'm a 4th year Aero and this year's VP Student Issues! In the coming year there are several items that I am keen to push forward and introduce this year for CSES, including visibly streamlined system of how issues can and are solved including what groups or departments are contact throughout the more seminars on other topics process, similar to last years SA seminar and continuing the great work started last year! I will also a buy a fish.



VP Student Issues: Willem Smulders (he/him)



VP Publications: Alex Barnett-Sheldon (he/him)

Howdy, folks! As your VP Pubs, I handle all the nifty-lookin' ads and posters you see put out by CSES and many of the other engineering student societies. I also oversee our mega fun engineering newspaper, The Iron Times READ IT AND ALSO SUBMIT TO IT, our super cool podcast, The Gong Show LISTEN TO IT, TWICE, EVEN, and the sah-weet CSES website where can find out about events, intramurals, the many services we offer, and other neat stuff! Check it out OR ELSE!



Located deep in the heart of the 3300-block in Mackenzie (ME 3390 to be exact), Alexander's office is the main headquarters of Carleton's beloved engineering society. If you're looking for any information regarding CSES, its events, or its services, this is the place to go! Ask a question, print your labs and assignments, browse through our textbooks... it's all right here!

Additionally, CSES conducts all of its business and runs all of its services out of this very office, so you may want to take note of its location. The office is open from 8:30 AM to 5:30PM every weekday (MON-FRI) throughout the schools year by the members of our council. Drop by and say hi, we'd love to meet you!

Unable to stop by? Don't worry! You can always email us if you have any questions at questions@cses.carleton.ca or give us a call at 613-520-3616

Contacts

President:

president@cses.carleton.ca

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Services:

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Social:

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Student Issues:

studentissues@cses.carleton.ca

Publications:

publications@cses.carleton.ca





Academic Advocacy

CSES strives to provide faculty representation for any and all academic concerns. If you have issues with marks, professors or TAs, or even on how your classes are structured, email our VP Student Issues at studentissues@cses.carleton.ca, or fill out our anonymous form at www.mycses.ca/resources.

Advertising Services

If you're looking to advertise and event or society, CSES provides advertising services through our bi-weekly newsletter, Leo's TV ads, promotional banners on our website, poster space on the CSES posterboard, and Iron Times advertisements. To inquire, shoot an email to publications@cses.carleton.ca.

Swag Swag Swag

EngSwag is the sweet merch that us available for purchase in Alexander's office. Our extensive inventory includes shirts, sweaters, hats, stickers, patches, and more. In the office, we gladly accept cash and debit, with the occasional E-Transfer

allowed here and there! Keep an eye out for important order forms or polls about our next merchandise options!





Newsletter

Look out in your Carleton Emails for CSES news on events, opportunities, services, and more! Our newsletters are a great way to stay in touch with the ongoings of the society, and it comes right to your mailbox free-of-charge. If you ever have something you would like advertised in our newsletter, reach out to the VP Internal or VP Publications!

Room Booking

If you need a temporary relocation, CSES has just the spot for you. Located in the CSES office in ME3390, the CSES boardroom offers a meeting space with a table for up to 6 people, a TV for display, audio equipment, and internet access. This is a perfect location for small gatherings for clubs or projects. The room is available during CSES's office hours throughout the year and can be booked through our website.

Equipment Loan Program

CSES loans various technical and logistical equipment to help engineering student groups and societies through our equipment loan program (ELP). To loan any of our devices, visit the website and fill out the embedded forms.

2 Mouse 2 Scientific Calculators 1 DSLR Camera 1 Camera AC Adapter 6 Ethernet cables 6 LED Lights 1 Camera Bag 8 Extension Cables 18 Power Bars 1 Camera Stabilizer 2 Go Pros 1 Projector 1 Halogen Worklight 2 Tripods 1 Cash Box 2 HDMI Cables 3 Digital Cameras 1 USB D Cord 1 Keyboard 1 Wi fiModem 4 VGA Cables 1 Voice Recorder



Sports and Athletics

Sport, sports and more sports! And some Athletics! CSES also facilitates the engineering sports teams in Carleton's Intermural sports league. For a reduced price, you can join the engineering team and play volleyball, floor hockey, soccer, ultimate frisbee, or dodgeball, depending on the semester. Look out for sign-ups and make sure to email social@cses.carleton.ca if you have any

questions.



Every year, CSES allocates money to support undergraduate engineering students in their academic and extracurricular activities. Student Group Funding (SGF) is meant to help the affiliated student groups and engineering projects that make the community what it is - unique, innovative, and diverse! If your student group is not currently CSES affiliated, you must first apply during our set registration periods in September and January. Engineering design projects are also eligible to register!

Funding is allocated twice a year, once in the fall term and once in the winter. If you are interested in applying for funding or have any questions, reach out to our VP Finance!



Textbook Library

Need a to borrow a textbook in a pinch? CSES keeps a large inventory of textbooks in our office (engineering and otherwise) available to our members to check-out for week-long periods. Best of all, it's absolutely FREE! Check out mycses.ca/services for the complete inventory, as well as information on how to check out our books.

Textbook Trade Program

Want to own a textbook, but can't afford to dish out the money? Or maybe you're looking for some hand-me-downs in an effort to be more sustainable? Either way, CSES's textbook trade program may be what you're looking for. Every year, we collect information on used textbooks from other students, and compile it in an easy-to-access list where you can browse through the textbooks you need. CSES will then help facilitate an easy transfer of goods, allowing you to get the books you need at a better deal. Whether you're looking to buy or sell, keep an eye out for the textbook trade program on our social media and our website!

Workshops and Seminars

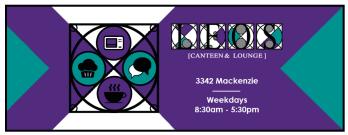
If you're ever looking for something to do, or just want to sit down and learn something new, stay tuned for some of CSES's workshops and seminars. Topics can range from academia, personal projects, finance, and so much more. If you ever have an idea for a workshop, or think that there is a topic that may interest others, feel free to stop by the office and let us know!

Leonardo's Lounge



Leonardo's Lounge (or just Leo's for short) was constructed in the summer of '96 and completed on September 16th of that same year. Leo's was made possible by the volunteer time and renovation skills of many dedicated students. Since then, Leo's has changed in style quite a bit, especially with the renovations during 2022... but it will always embody the spirit from which it was created.

Leo's is 100% volunteer run and managed, and anyone (no matter their degree!) can volunteer for a shift. Open from 8:30 AM to 5:30PM Mondays through Fridays, Leo's is quite the social spot. If you're up for a game of cards, a board game, or just for arguing about pop culture phenomenons (usually Star Wars), you should stop by. Leo's has the best-priced food on campus, and will forever boast about the fact that they accept Canadian Tire money at face-value.



(f) /LeonardosLounge

For more information, and the full menu, visit mycses.ca/services.

If you have any questions about getting involved with Leo's, or want to know more about how to get involved, make sure you reach out to the General Managers at leosGM@cses.carleton.ca

For inquiries on booking Leo's Lounge after hours for club activities, don't hesitate to email the Leo's Operations Manager at leosOPS@cses.carleton.ca

Events



Formal Events

WHIRLWIND is the annual CSES-hosted engineering semi-formal that usually takes place in early-to-mid November. It's a time for C-Eng to dress up, take some nice photos, enjoy snacks and beverages, and dance the night away



with friends. Whirlwind traditionally features a fun theme that changes from year to year, and is generally the more affordable of the two formal events run by CSES. Come out to CSES's Fall Semester General Meeting to learn what the theme will be this year!



REFLECTIONS is the annual CSES-hosted engineering formal that features a multicourse dinner and dance. Typically held in March, this fun and fancy evening also serves as our end-of-year awards ceremony and our celebration of the new grads.

Think of it as an engineering prom, if you will. It's a wonderful night to have some fine-dining with friends, and at the end of the night, we open up the floor to a dance session. Look out for tickets to this fancy night in the Winter semester!

Events



Upcoming Events

ENGBOWL is an outdoor event that kicks o ffour school year, and makes most of the warm weather while we still have it. This first event takes place in Brewer Park, and is a great opportunity to meet/hang out with some new friends and play some pick-up games!





CHARITY LAN is our 24 hour gaming day, where engineers will bring in their devices, setup, and do nothing but non-stop gaming throughout the night... for charity of course! And best of all? This event is held TWICE a year for maximum fun.

HOMECOMING is a day of both Raven and engineering pride. Join us to purple and sit in the engineering section, where chaos, laughter, and loud chants await. It's a riot! And rumor has it that there's even a football game going on in the background!



Publications



The Iron Times

The Iron Times is the sometimes informative (and always hilarious) official news publication of CSES. It is published every two months, and is available in a digital copy on the CSES site. Check out our archives to see some pretty old and wacky issues at mycses.ca/iron-times-archive.

This paper is frequently an informative account of C-Eng events and engineering achievements, a satirical look at the world from the mind of an engineering student, and packed with everything you need to know about Carleton Engineering. Keep a look-out for the latest issue!



f 🗗 @TheIronTimes

Want to contribute to The Iron Times? Try your hand at making an article or poem, drawing a comic strip, or creating a meme! We are always on the hunt for content. Articles ca be absolutely any length and about anything - well, almost anything. Email any content you have to irontimes@cses.carleton.ca to see your submissions in the next paper, and keep a eye out for calls to write articles and for C-Eng Speaks on our socials!

The Gong Show

Introduced back in 2017, the C-Eng Gong Show is CSES's offbeat news segment. Sometimes presented in video format, other times as a podcast, you can hear all about upcoming events, C-Eng news, and catch excusive interviews in each episode. If you want to check it out, make sure to keep tabs on our socials to catch any new episodes!

Publications



The Passport

Ah the infamous C-Eng Passport. This is the cornerstone of the Flightsuits Program here at Carleton. It lists all sorts of C-Eng events and opportunities. You can find a copy of the passport on the Flightsuits Facebook Page (ask around on how to get in!). Keep track of your attendance and involvement, and hand it in at the end of the year during stamping period. You may just have enough stamps to earn yourself your very own Flightsuit!



The Handbook/Agenda

This sounds familiar... wait, you're reading it right now! This has to be some sort of fourth wall break or something. Either way, this baby can hold so many tips in it, and it comes decked out with an agenda/planner at the end! If you know someone that didn't get one (or you want to hoard them), come by the CSES office and pick one up for free!

Campaigns



Breast Cancer Fundraiser

CSES's very own Boobies Directors organize the annual Breast Cancer Awareness Month fundraiser each October.

A few years back, our cornerstone event "Operation Pink the Thing" involved painting the engineering structure behind Mackenzie pink for the month of October. Among selling patches, baked goods, sweaters, and more, we raised just under \$2000 for breast cancer awareness.



Movember



Every November, C-Eng grows out their beards and 'staches to raise money and awareness for men's health issues. CSES is proud to facilitate events and opportunities to fundraise with the help of our Movember directors all November long.

Hightlights of Movember include the highly successful Movember Shave-o ffauction, where members of the community can auction their beautiful heads-full-of-hair (facial or on top) for others to shave, dye, and style in a fashion of their choosing.

Campaigns



February Feel-Good Week

February Feel-Good Week (FFGW) is CSES's dedicated week to mental health awareness and de-stressing, run solely by volunteers! Founded in 2015 by former CSES president, Jasmine Shaw, the spirit of the week is to reduce the stigma associated with mental illness through positivity



and communication. As this week falls right smack in the middle of "busy season", we also aim to help alleviate stress during this hectic midterm period. Expect a full week of good vibes and good vibes only!

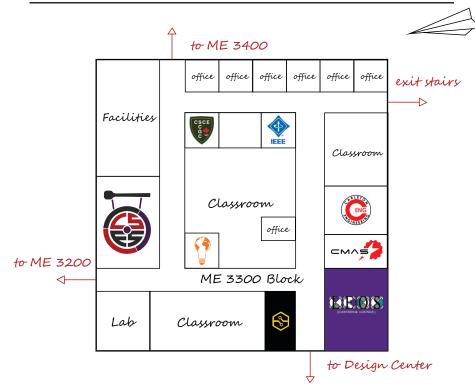


National Engineering Month

Engineering is a profession (and a program that deserves to be celebrated. That's what CSES's National Engineering Month (NEM) is all abut. By incorporating all aspects of the engineering community, with participation from many clubs, societies, faculty members, alumni, and YOU, we run as month jam-packed with activities.

Events range from professional, to social, to outreach programs which all express why we're so proud to be PURPLE! Canada celebrates National Engineering Month in March every year.

C-Eng Life



The heart of C-Eng, more formally known as Mackenzie 3300! CSES, the Faculty of Engineering and Design, and all of C-Eng's clubs and societies have been hard at work over the past few years to achieve one goal: take over the entire University... Okay maybe that didn't work out, but we at least were able to gather the community in one hustling and bustling location. The goal was realized after CSES moved into their brand new office location in ME 3390. There are still some clubs that are we're trying to get offices for in the neighborhood, but until then, here is the grand list of clubs that hang out in this spot:

ME 3336: SCESoc ME 3359: IEEE
ME 3342: Leonardo's Lounge ME 3379: CSCE
ME 3346: CMAS ME 3390: CSES
ME 3350: Shared office space ME 3397: EWB

EngFrosh



What is EngFrosh?

EngFrosh is Carleton's official orientation program for new students in Engineering, Architecture, Industrial Design, and Information Technology degree programs. The Primary goal of EngFrosh is to help frosh get comfortable with their new lives at Carleton by allowing them to bond with their soon-to-be classmates in a fun and safe environment. In doing so, they will be able to create a support network of new friendships, which can be used for getting help (academic or otherwise) when it is needed most. As an added bonus, there's the benefit of meeting upper-year students in their programs, who will quickly become valuable resources for anything from course tips to life advice.

Some of the key events that you'll catch at EngFrosh include white-water rafting, building/design competitions, scavenger hunts, and other week-long activities to keep you occupied. One day, if you really enjoyed EngFrosh and want to help make it even better, you can apply to be on the planning team, heads team, or as a facil!



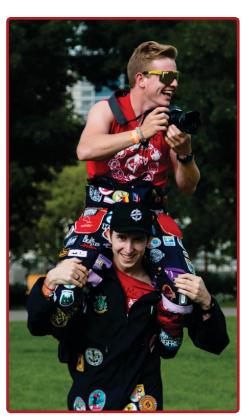
www.engfrosh.com

Flightswits



Flight-what?

Flightsuits are the glorious blue coveralls that C-Eng students wear with pride. They are embellished with a large C-Eng patch on the back and equipped with (around) eighty-six pockets for all of your storage needs. The front of each flightsuit boasts the wearer's callsign, a unique nickname awarded for certain "special" qualities or for having done "special" things during their time here at Carleton. It's easy to get a callsign - just be yourself and someone will notice how awesome you are!



How do I get one?

Start by getting yourself a passport - an online copy can be found through a friend or on the Flightsuits Facebook group (which you should as someone to invite you to!). Then, all you need to do is get involved! Join clubs and societies, volunteer for everything in sight, and become a staple member of C-Eng. The passport will help you figure out what events to attend, and what will give you the most points. At the end of the school year, hand it in to Flightsuit Committee, and you'll be contacted if you got in!

Traditions



Lady Godiva

Lady Godiva is worshiped by students in engineering - stick with us and you'll hear her appear in our anthem, Godiva's Hymn, and more!

Lady Godiva was the wife of Leofric, Earl of Mercia. As the story goes, she took pity on the people of Coventry, who were suffering under the



oppressive taxation of her husband. She appealed again and again to her husband, who obstinately refused to remit the tolls. At last, weary of her entreaties, he agreed to grant her request if she stripped naked and rode on horseback through the street. Taking him at his word, Lady Godiva rode through the town, clothed only in her long hair. In the end, her husband kept his word and abolished the tax laws. Lady Godiva's relevance to engineering and technology has yet to be determined...



Engineering Leather Jackets

In the winter of '04, a few students got together and decided to design a new leather jacket. The design had to establish a united C-Eng community of students, graduates, and faculty. These new red jackets can be seen all over campus, Ottawa, and the universe. They are worn with pride to engineering competitions and intergalactic missions alike.

Traditions



Pewter Mugs

Pewter mugs are a tradition among Carleton Engineering graduates. Each mug comes engraved with the Carleton crest on the front and your name, year, and stream on the back. Best of all, it's free for the graduating engineering students!





The Gong

Mandated by a meeting of the CSES members and purchased in 2006, the Gong is CSES's mascot. A ring of the big Gong opens all of our very important events, and a miniature travel model (named "Baby Gong") is brought to events and conferences outside of Carleton.

as a symbol of our pride and spirit. The Gong lives on display at the CSES office, and is sometimes dressed up for various occasions such as Movember. Come check it out, just don't touch the it because the president may bite your finger off.

Traditions



The Iron Ring

The idea of a ceremony for the Obligation of Canadian Engineers dates back to 1922, when seven former presidents of the Engineering Institute of Canada attended a meeting in Montréal with other engineers. It was decided that "an organization was needed to bind all members of the engineering profession in Canada more closely together."

Journalist and poet Rudyard Kipling responded to the request for a "suitably dignified obligation and ceremony" with the Ritual of the Calling of the Engineer, to be administered by the Seven Wardens, Inc.

It was instituted with the simple end of directing newly-qualified Canadian engineers towards a consciousness of their profession and its social significance, indicating to more experienced engineers their responsibility to welcome and support newcomers to their profession.

The Iron Ring has been registered and may be worn on the little finger of the working hand by any engineer who has been obligated at an authorized ceremony of the Ritual of the Calling of the Engineer. The ring symbolizes the pride engineers have for their profession, while simultaneously reminding them of their humility.

It serves as a reminder to the engineer and others of the obligation to live by a high standard of professional conduct. It is NOT, however, a symbol of qualification as an engineer - this is determined solely by the provincial and territorial licensing bodies for the engineering profession. You can read more about the calling of an engineer at www.ironring.ca.



Carleton Mechanical and Aerospace Society

The Carleton Mechanical and Aerospace Society (CMAS) is the academic student society for Mechanical, Aerospace, SREE B, and Biomedical and Mechanical engineering students, though students from all programs are welcome! We are located in 3346 Mackenzie Building, right next to Leo's Lounge.





cmas.president@gmail.com



www.theCMAS.ca

Canadian Society for Civil Engineering





carletonCSCE@gmail.com



CSCE Carleton Student Chapter CSCE Carleton Student Chapter is located in ME 3379, and is the acting stream society for students in Civil, Architectural, and Environmental engineering programs. Our goal is the provide students with the opportunity to meet industry professionals, faculty members, and facilitate the relationship with CSCE National.

Sustainable and Renewable Energy Engineering Society

SREESoc actively represents students of the SREE and ACSE program both internally and externally to the Carleton community. Open to any program, the society provides social events, academic support, and the chance to network with professionals in the industry.





info@sree-society.ca



Sustainable and Renewable Energy Engineering Society



Systems and Computer Engineering Society

SCESoc is the stream society for students in the Department of Systems and Computer Engineering, but students from all disciplines are welcome as members to attend our events and get involved! We aim to enrich our members' lives through a variety of both academic and social activities. Our office is located in ME 3336.





president@scesoc.ca



www.scesoc.ca

Carleton University Biomedical Engineering Society





cubes.carleton@gmail.com



CUBiomed

CUBES is the official stream society for the undergraduate Biomedical Engineering programs. We host interactive events that bring the biomedical engineering student together and foster community connections that last a lifetime. In addition to providing professional development and networking opportunities, CUBES hosts a variety of social and academic events.

Department of Electronics Society

DESoc is the student society that represents all students in Electrical Engineering, Engineering Physics, and SREE A. We host social and academic events throughout the school year, including electrical engineering workshops, study nights, merch. and our annual pumpkin carving competition! For updates elections and other events, stay tuned to our socials





desocpresident@gmail.com



Carletonelectronicssociety



IEEE Carleton

IEEE Carleton is a student-run Branch that provides many services such as workshops, technical presentations, career networking events, industry tours, and more. Come to ME3359 and say Hi, and get involved with us by volunteering and attending events!





info@ieeecarleton.ca



www.ieeecarleton.ca

Engineers Without Boarders Carleton Chapter





carleton@ewb.ca



carletonu.ewb.ca

EWB unlocks human potential in Sub-Saharan Africa by investing in forward-thinking social enterprises. We support local innovators to accelerate their impact and apply their innovations on a global scale to the benefit of millions. At EWB Carleton, we host learning sessions, fundraising events, and much more. Come check us out!

C-Eng Musical

The Carleton Engineering Musical is an annual musical production that serves as a creative and comedic outlet for all students at Carleton University. Each year, the students are given the opportunity to write, sing, dance, act, perform, build, organize, advertise, and produce a specially "engineered"version of a different that portrays popular musical struggles and triumphs of engineering students everywhere. The proceeds of each production are donated to charity at the end of the school year.





carletonengineeringmusical@gmail.com

www.cengmusical.ca



CU FIRST Robotics

CU FIRST's mission is to promote and expand FIRST (For Inspiration and Recognition of Science and Technology) and its robotics-based educational programs for youth both on-campus and throughout Ottawa. By connecting Carleton students with mentoring and volunteer opportunities, as well as hosting competitions and networking events, our goal is to get more people involved in this amazing program.





Women in Science and Engineering



The Carleton University Women in Science and Engineering (CU WISE) is a group of enthusiastic undergraduate and graduate students who encourage and support women in pursuing an education and career in science or engineering.

Carleton University EngiQueers

Carleton University Engiqueers (CUE) is Carleton University's society for LGBTQ+ engineering students, although we welcome everyone! We run a mix of social and education events throughout the year, as well as promote inclusivity in the Faculty of Engineering and Design. CUE wishes to act as a safe space for members of the LGBTQ+ community and allies, primarily in the Carleton Engineering community as well as to network, socialize and support one another.





Design Teams



Troitsky

BRIDGE! BRIDGE! BRIDGE! Each year Carleton sends several teams to Montreal to compete in the three-day Troitsky Bridge Building Competition hosted by Concordia. But, what's the catch? These bridges can only be built using popsicle sticks, white glue, and floss! Our teams compete against universities across Canada and are given the opportunity to be creative, bond with other students, and apply skills learned in the classroom.



ww.ravensracing.com





carletonadmirals@gmail.com



carletonadmirals

Raven's Racing

Ravens Racing is a design team composed of students from all years and degrees. They use the theory learned in classes to design, manufacture, test and compete in formula-style race cars in a series called FSAE. Each year we compete, so make sure to join and get involved!

Project Edison

We are Carleton's Universities Autonomous vehicle design team. We are a multidisciplinary group of students. We are designing a fully autonomous vehicle from scratch. Including everything from vehicle design to our own proprietary software.



Carleton Planetary Robotics Team



carletonplanetaryrobotics@gmail.com

carletonplanetaryrobotics

CPRT is a student-run group that aims to design, build, and program a Mars Rover to compete in international competitions. The group has competed at the UK Rover Challenge in 2016, the Canadian Rover Challenge in 2017/18, and the University Rover Challenge in 2018/19/

Design Teams



Great Northern Concrete Toboggan Race

GNCTR is the oldest engineering competition in Canada. It is a competition that challenges a team of 20-25 engineering students to design, build, and "safely" race a concrete toboggan. Teams are judged in several categories, including team spirit, technical exhibition, overall toboggan, braking system, and concrete mix of course.





carletongnctr@gmail.com







Blackbird UAV

The Blackbird UAV team provides Carleton students with practical project experience in the areas of aerospace design, payload systems, autonomous flight, wireless communication, and software development. The ultimate goal is to achieve a system that is competitive not only among academic institutions, but within the UAV industry as well.

CU InSpace

CU InSpace is Carleton University's rocket engineering team. Our goal is to compete in the Spaceport America Cup, the world's largest rocket competition. Our task is to design, build, test, and launch a rocket to 10 000 ft AGL with a 10-lb payload. We will be designing our own avionics systems, propulsion systems, structures, and payload.





uavblackbird@gmail.com
blackbirduav.mae.carleton.ca

Carleton University Design League



The Carleton University Design League (CUDL) is entering its second year, back and better than ever with CAD skills workshops, networking opportunities, and our best event of the year: the Designathon to solve a real-world engineering problem provided by sponsors such as Lockheed Martin and the MAAE Department.

Alumni



The Brotherhood of SOOPP

In the words of the Brotherhood: "We are a group of Carleton alumni whose sole purpose is to give back to Carleton Engineering what it gave to us. We strive to provide inspiration for the students of C-Eng to see their degrees through to the end, even when times are tough and academic outlook may look bleak. We emphasize that the best part about university is getting involved and cramming your calendar full with as many events and groups that it can handle. Students will have the rest of their lives solely

dedicated to their careers, but they will only have the next few years to live in the completely amazing and altered reality that is life at University. We encourage students to embrace it, meet people, make friends, and simply have the time of their lives.



Carleton University Alumni Association



The CUAA has an entire chapter dedicated to engineering. They give back to the C-Eng community by volunteering with key events, such as EngFrosh and Carleton's engineering competition, C-Eng-C. They also collaborate with CSES to organize Ring Day festivities for our new graduate students!

External Organizations



Professional Engineers Ontario

Professional Engineers Ontario (PEO) is the licensing and regulating body for engineering in the province of Ontario. It fulfils the same role for engineers as the College of Physicians and Surgeons does for doctors, or that the Law Society of Upper Canada does for lawyers. PEO creates and maintains the standards of knowledge, skills, ethics, and qualifications for professional engineering in Ontario. PEO also has a Student Membership Program (SMP) to help you out as you progress towards your goal of becoming an engineer. Check them out on their website: http://www.engineeringstudents.peo.on.ca/!



Ontario Society of Professional Engineers

The Ontario Society of Professional Engineers (OSPE) is a member interest advocacy organization, created jointly by PEO and the Canadian Society of Professional Engineers (CSPE). OSPE is the result of a two-year process to separate regulatory and non regulatory affairs for the profession, culminating in a referendum of PEO members that found 80% supported starting a separate advocacy organization. OSPE is the voice of Ontario's engineers, supporting, representing, and advancing their interests, as well as promoting engineering excellence for the benefit of the public. Learn how you can get involved at: https://ospe.on.ca



External Organizations

Canadian Federation of Engineering Students

The Canadian Federation of Engineering Students (CFES) is a national organization that represents engineering students all across Canada. The CFES aims to provide opportunities in support of all-encompassing education for engineering students in Canada, including a national engineering competition, a leadership conference, a conference about diversity in engineering, and a conference about sustainability in engineering. You can check them out at www.cfes.ca, or find them on social media @cfes.fceg



Engineering Student Societies' Council of Ontario

The Engineering Student Societies' Council of Ontario (ESSCO) is an association of undergraduate student societies from Ontario universities. Their focus is to represent the collective interests of engineering students to various contacts in government, academia, and industry. ESSCO also hosts three conferences, PEO-SC, FYIC, and AGM, for engineering students in Ontario to develop their leadership skills. You can learn more at www.essco.ca, or follow them <a href="https:



Conferences



Diversity in Engineering

The CFES is proud to offer the Conference on Diversity in Engineering (CDE) as a valuble service to its members. CDE aims to encourage discussion and collaboration between engineering students and professionals around the theme of diversity.





Canadian Engineering Leadership Conference



Delegates attending this weeklong conference are provided with a fantastic opportunity to meet 40+ other engineering schools and learn from other student leaders, as well as industry professionals. The national transfer of knowledge is invaluable, as it provides students with tangiable, real-world examples and advice on how to improve their skills.

CELC 2022: University of Calgary

Sustainability in Engineering

This conference aims to raise awareness about issues in sustainability and environmental engineering, and encourage students to discuss and design solutions to counter them.

CSE 2022: University of BC



Conferences



PEO Student Conference

Organized with the support of PEO, PEO-SC is a professional development conference that introduces delegates to the work of PEO and the benefits of obtaining a P.Eng license.



First Year Integration Conference



The FYIC is a leadership development conference for first-year students looking to get involved in their engineering societies. Sessions are designed to develop leadership potential, break down first-year barriers, and introduce the inner-workings of how their EngSoc functions.

ESSCO Annual General Meeting

ESSCO AGM is a conference held annually to prepare and further advance the leadership abilities of students who are both new to their Engineering Society, or who are looking to further their involvement. The goal of this conference is for students to exchange best practices and ideas relating to clubs and societies.



Interesting in any of these conferences? Keep an eye out on the CSES socials to find out when the VP External is sending delegates!

Competitions



Local: C-Eng-C

CSES is happy to be the host of Carleton's very own Engineering and Design Competition, C-Eng-C, every Fall! The competition includes a range of categories and serves as the local qualifier for provincials. C-Eng-C tends to take place in October, but if you have any questions make sure to reach out to the VP Academic!

Provincial: Ontario Engineering Competition
The Ontario Engineering Competition (OEC) boasts seven competition categories: consulting teams must try to solve a current problem facing Canadian engineers; communications teams must explain a sophisticated system to a layman audience; debate teams are given a topic to debate on; junior/senior design teams are given a set of resources and must use them to complete a design challenge; programming teams must create a functional

National: Canadian Engineering Competition

program to solve an engineering problem.

The Canadian Engineering Competition (CEC) is a four-day event bringing together approximately 200 engineering students from across Canada to compete in various categories, similar to OEC.

Faculty of Engineering and Design

Dean Larry Kostiuk

Born in Hay River, NWT, professor Kostiuk was educated in Mechanical Engineering at the University of Calgary (BSc - 1983) and at the University of Alberta (MSc - 1985), before receiving his PhD from Cambridge University (1991). He was a Post-Doctoral Fellow (1991-1993) at the Lawrence Berkeley National Laboratory in California, before returning to Canada to become an Assistant Professor at the University of Alberta in 1993.



Larry Kostiuk
PhD, Peng, FCSME, FCAE

He served as Chair of the Department of Mechanical Engineering (2002-2012), an Associate Vice-President of Research (2015-2018), and Director of Future Energy Systems (2016-2018), a Canada First Research Excellence Fund program, at the University of Alberta.

"I am excited to help shape a collective vision for the future. I believe strongly that academic institutions must recognize the value of balance: balance between teaching an research, specialism and interdisciplinarity. We need to dare to nurture a mix of foundational and explorative pursuits in an environment that is both stable and innovative. A key part of this balance must come from being an equitable, diverse, and inclusive community."



info_engdesign@carleton.ca



www.carleton.ca/engineering-design



(613) 520-5790

Faculty Resources



Associate Deans



Audrey Girouard

Associate Dean of

Research



Amir Hakami Associate Dean of Graduate Studies



Robert Langlois
Associate Dean of
Student Success



Donald Russell
Associate Dean of
Governance



Jerome Talim
Associate Dean of
Policy and Planning



https://carleton.ca/engineering-design/about/leadership/

Academic Advisors

Academic Advisors can help you to understand academic rules, overcome academic difficulties, develop effective study skills, learn more about your degree and how it relates to the professional world, and choose/change degree programs. For all stream-specific advisor, visit www.carleton.ca/engineering-design/current-students/undergrad-academic-support/undergraduate-advisors.



engcadsupport@carleton.ca



(613) 520-4067

Departments





Civil Engineering, Environmental Engineering, Architectural Engineering

Chair: Professor Yasser Hassan Email: yasser.hassan@carleton.ca

Office: 3434 Mackenzie Department Society: CSCE



Electronics

Electrical Engineering, Engineering Physics, SREE A



Chair: Professor Niall Tait Email: niall.tait@carleton.ca Office: 4158 Mackenzie Department Society: DESoc

Mechanical and Aerospace

Mechanical Engineering, Aerospace Engineering, Biomedical Mechanical Engineering, SREE B

Chair: Professor Ron Miller Email: ron.milller@carleton.ca

Office: 3130 Mackenzie Department Society: CMAS



Systems and Computer

Communications Engineering, Computer Systems Engineering Software Engineering, Biomedical Electrical Engineering

Chair: Professor Yvan Labiche Email: yvan.labiche@carleton.ca

Office: 4456 Mackenzie Department Society: SCESoc



Student Resources



Carleton University Students' Association

The Carleton University Student's Association (CUSA) is an incorporated, not-for-profit, student-run organization that exists to enhance the student experience at Carleton University. All undergraduate students are members of CUSA and are encouraged to take advantage of the services, events, and programming that we offer. We act as the student voice on campus and advocate for the issues that matter to you. We are your undergraduate student government, your service centres, your clubs and societies, your events & programming, your community campaigns, your students' association. CUSA is also responsible for your student Health and Dental Plan, U-Pass, and multiple businesses on or around Campus including Ollie's, Rooster's, and Haven.

CUSA proudly operates eight service centres that offer a variety of programming and resources for students. Each service centre is responsible for meeting the needs of our diverse student population and enriching student life in meaningful and inventive ways. Visit a CUSA service centre today to take advantage of the unique programs and services that they provide.



@cusaonline



Your CUSA Faculty of Engineering and Design Councillors are Kassidy Hammond, Akeel Samji, Saad Khan, Muhammad Maahit Adul Aziz, Charlie MacDonald, and Stephnie Ughara. These councillors exist to advocate for the issues that matter to you! They are always accepting feedback and their contact information is available in the Council section of the CUSA website.

Student Resources



Carleton Academic Student Government

Academic Student Carleton's Government (CASG) functions as an intermediary between students, faculty, and administration, which allows students to influence the **CASG** university's governance. deals primarily with the academic life of undergraduate students, as well as school-wide issues involving all students. CASG is recognized as



the student wing of the administration running under the Senate of Carleton. CASG is a non-political organization that only takes positions regarding academic issues as they apply to Carleton undergraduate students.



www.casg.ca



← CarletonAcademicStudentGovernment

Rideau River Residence Association



The Rideau River Residence Association (RRRA, pronounced "RAW") is the student government that represents the undergraduate students living in the residence at Carleton. Its members consist of roughly 3000 undergraduates who are enrolled at the university and living in residence. With an annual budget of about 1.4 million dollars

and three executives alongside volunteer staff, RRRA serves as an advocate for students living in residence while providing a variety of services, fun events, and programs for all of its members





RRRA.CU

Student Centres



CUSA Provided Centres:

The Womxn's Centre: a safe(r) space for those who identify as Womxn but also anyone interested in gender based issues. The Womxn's Centre provides free male/female condoms, pregnancy tests, menstrual products, and a wealth of resources and material. The centre is home to the only Womxn's only space on campus. All Womxn can use this quiet space for resting, prayer, breastfeeding, and self-care. https://linktr.ee/womxnscentre

<u>The Gender and Sexuality Resource Centre (GSRC):</u> a safe(r) space for Carleton students wishing to connect with queer and trans community. https://linktr.ee/cusagsrc

<u>Hatch</u>: a student-led entrepreneurship program dedicated to providing its members with entrepreneurial options through social and business networking. https://linktr.ee/hatch_cu

<u>The Mawandoseg Centre</u>: a safe(r) space for Indigenous students at Carleton and works to address the specific needs of the various Indigenous communities in and around the university. https://linktr.ee/mawandoseg

<u>The Racialized & International Student Experience (RISE)</u>: a lounge for students of all ethnicities and international backgrounds on campus to gather to kick back, relax and socialize with fellow students. https://linktr.ee/CUSARISE

<u>The Unified Support Centre (USC):</u> a volunteer-based space consisting of the Food Centre service cluster, providing on-campus food support and advocacy, and the Foot Patrol service cluster, offering evening-focused safety related supports. https://linktr.ee/usc_cusa

<u>The Wellness Centre</u>: CUSA's peer-to-peer mentorship centre, focusing on helping students care for their physical, mental and emotional health. https://linktr.ee/cusawellness

<u>The Carleton Disability Awareness Centre (CDAC)</u>: providing the Carleton community with social support regarding disability and accessibility. https://linktr.ee/cdac

Campus Safety



Carleton University Safety

Carleton University Safety is a department of the Finance and Administration division of Carleton. The department consists of Patrol Services, Parking Services, and the Technical Services to address the needs of the community regarding personal safety, protection of property, and parking needs. A community liaison officer provides



crime protection services, liaises with various community groups, and offers presentations on personal safety and crime prevention programs. The primary objective of Carleton University Safety is to provide a safe and positive working environment for every student, sta ffmember, and faculty.



www.carleton.ca/safety



(613) 520-4444

Carleton University Student Emergency Response Team

The Carleton University Student Emergency Response Team, or CUSERT for short, is a student-run campus response team. They provide free first-aid coverage at Carleton-based events, free 24/7 on-call emergency medical first response, and medical training. All CUSERT members are highly trained in first aid and capable of responding to many situations, whether on-or-o ffduty. CUSERT also represents Carleton at first-aid competitions against other universities across Canada.

Foot Patrol

Foot Patrol provides safe walks, the Walk and Talk service, event safety support through Foot Patrol event teams and the Guardian Program, and the Borrow-afirst-aid-kit service to the Carleton Community, free of charge.



Mental Health Resources



Health and Counselling

Carleton's health services include booked doctor's appointments and urgent walk-in clinic services. On-campus counselling services offer short-term individual counselling for students struggling with anxiety, depression, relationships, substance use, or other problems that are impacting their life and/or academics. Carleton Counselling Services offers both booked appointments and same-day counselling, as well as crisis services during operating hours.



www.carleton.ca/health

Residence Counselling

Residence Counselling and Wellness is a satellite office of the Health and Counselling services open exclusively to Carleton students living in residence. We are located in 131 Renfrew Building on the main floor close to the rear entrance. In addition to our three licensed counsellors, we work with housing staff to run events and activities in the Wellness Space.



www.carleton.ca/health/residence-counselling

Empower Me

All undergraduate students have access to Empower Me, a mental health and wellness service that seeks to contribute to a resilient student community by supporting existing on-campus mental health and Student-Care resources. Empower Me allows students to connect with qualified counsellors, consultants, and life coaches for a variety of issues. Visit https://students.carleton.ca/services/ empower-me-counselling-services/ for more details.

First Year 1001



In School Checklist

	Go to class as much as you possibly can - never miss the first and last classes of a course since they usually have the most important information (marks and exams!)
	Become the professors'/TAs' BFFs - okay maybe not that close, but strike up a conversation here and there and they'll help you
	Get a schedule - studying, sleeping, going to class, club activities. Your body will thank you if you have a good pattern and aren't cramming at 3AM in the morning for a test! And get your friends to study with you so you can work smarter, not harder!
	Use past exams to study for current ones - they may not be exactly the same, but it's free real estate practice
	Upper years can be valuable sources if they feel like it - ask them for help if you spot one in the wild (try Leonardo's Lounge around lunch time to catch them at their watering hole)
In	Residence Checklist Ignore the potential biohazard that is your mattress – just try not think about it. Sorry that I made you think about it.
	Go to the salad bar at the cafeteria - please eat your veggies, there have been actual cases of scurvy on campus (I'm not kidding)
	DC++ - this is the residence program that will let you download approximately 1.21 terabytes of mindless junk in the form of movies, games, music, and textbook solution manuals
	Try to avoid the residence condoms - who knows what prankster poked holes in them. There are better condoms at other places on campus

First Year 1001



Engineering Community Checklist

Volunteer at Leo's Lounge - meet new people, especially weirdos who know everything there is to know about euchre and Star Wars (and more importantly how to graduate)
 Follow societies on Social Media - that's how you know you're staying on top of their events. If they have a newsletter (or are on the Iron Times), even better!
 Look at the Mackenzie Posters - they actually contain useful info on upcoming events, and even some networking opportunities if that's more your thing
 Join a design team - may as well put those engineering skills to

What am I even doing in First Year Eng?

ECOR 1041 and 1042: Intro to coding (Python) and data management

ECOR 1043 and 1044: Electronics and Mechatronics

use and get some resume padding out of it

ECOR 1045 and 1046: Statics and Mechanics

ECOR 1047 and 1048: Visual Communications and Dynamics

ECOR 1055, 1056 and 1057: Information on Engineering that you will forget

MATH 1004: Calculus. Specifically pay attention to integration

MATH 1104: Linear Algebra

CHEM 1101: High School Chemistry

CHEM 1001-1002: High School Chemistry but harder

PHYS 1004: Waves and Electromagnetism (that one unit from highschool that no one liked, except for a few kids and those kids are currently in Eng Phys)

Campus Map



ΑH	Alumni Hall	MC	Minto Center
AA	Architecture Building	NW	National Wildlife
AR	ARISE Building		Research Building
AC	Athletics Building	NC	Nicol Building
AP	Azrieli Pavillion	NB	Nesbitt Biology Building
AT	Azrieli Theater	PG	Parking Garage
CB	Canal Building	PA	Paterson Hall
ΙH	Carleton Ice House	PH	Prescott House
TT	Carleton Technology &	RH	Renfrew House
	Training Center	CO	Residence Commons
AF	Andrew Fleck Childcare	RB	Richcraft Hall
	Centre	RO	Robertson Hall
DT	Dunton Tower	RU	Russell House
FH	Field House	SR	Social Science
FR	Frontenac House		Research Building
GH	Glengarry House	SA	Southam Hall
GR	Grenville House	SP	St Patricks Building
GY	Gymnasium	SC	Steacie Building
HP	Herzberg Building	SD	Stormont and Dundas
HS	Health Sciences Building	TC	Tennis Center
HC	Human Computer	TB	Tory Building
	Interaction Building	UC	University Center
LH	Lanark House	VS	Visualization &
LE	Leeds House		Simulation Building
LX	Lennox and Addington		-
	-		

LA

ME ML MB Loeb Building

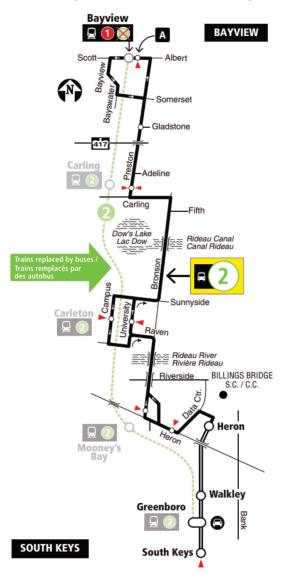
Mackenzie Building MacOdrum Library

Maintenance Building



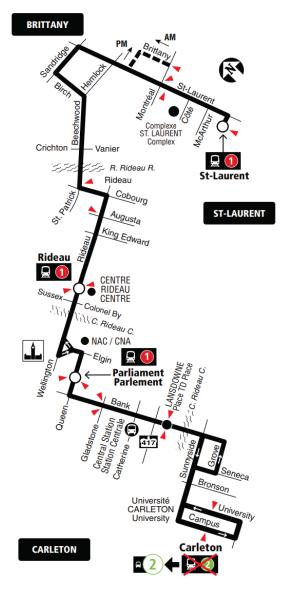


2: Bayview - Southkeys



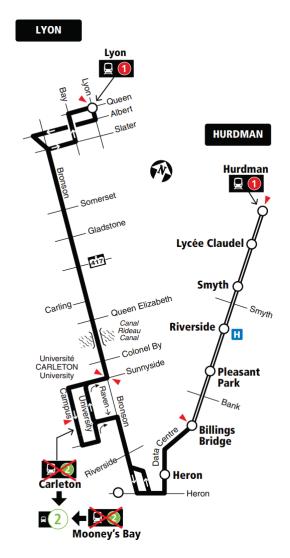


7: St-Laurent - Carleton



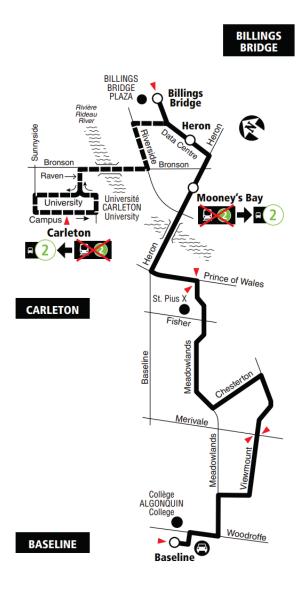


10: Lyon - Hurdman





111: Baseline - Carleton



	Sunday	Monday	Tuesday
Notes			
	4	5 Labor Day	Academic Orientation
	11	12	13
	18	19	20 Last day for Registration
	25	26	27

Wednesday	Thursday	Friday	Saturday
	1	2	3
7 Fall Term Start	8	9	10
14	15	16	17
21	22	23	24
28	29	30 Last Day to Withdraw*	

^{*}with a full fee adjustment



	Sunday	Monday	Tuesday
Notes			
	2	3	4
	9	10 Thanksgiving Day	11
		Thanksgiving Day	
	16	17	18
	23	24	25
	30	Fall Break 31	Fall Break

Wednesday	Thursday	Friday	Saturday 1
			1
5	6	7	8
12	13	14	16
19	20	21	22
26 Fall Break	27 Fall Break	28 Fall Break	29



	Sunday	Monday	Tuesday
Notes 			1
	6	7	8
	13	14	Last day of Academic Withdrawal
	20	21	22
	26	28	29

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Wednesday	Thursday	Friday	Saturday
2	3	4	5
9	10	11	12
16	17	18	19
23	24	25	26
30			



	Sunday	Monday	Tuesday
Notes			
	4	5	6
	11	12	13
	18	19	20
	25	26	27

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Wednesday	Thursday	Friday	Saturday
	1	2	3
7	8	9 Fall Term Ends	Final Exams Start
14	15	16	17
21	Final Exams End	23	24
28	29	30	31



	Sunday	Monday	Tuesday
Notes	1	2	3
	8	9 Winter Term Starts	10
	15	16	17
	22	23	24
	29	30	31 Last Day for Withdrawal*

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Wednesday	Thursday 5	Friday	Saturday
4	5	6	7
11	12	13	14
18	19	Last Day for Registration	21
25	26	27	28

^{*}with a full fee adjustment



	Sunday	Monday	Tuesday
Notes			
	5	6	7
	12	13	14
	19	20 Winter Break Family Day	21 Winter Break
	26	27	28

Wednesday	Thursday	Friday	Saturday
1	2	3	4
7	9	10	11
15	16	17	18
22	22	24	25
22 Winter Break	23 Winter Break	24 Winter Break	25

March 2023

	Sunday	Monday	Tuesday
Notes			
	5	6	7
	12	13	14
	19	20	21
	26	27	28

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Last Day for Academic Withdrawal	16	17	18
22	23	24	25
29	30	31	

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2023

	Sunday	Monday	Tuesday
Notes			
	2	3	4
	9	10	11
	16	17	18
	23 30	24	26

Wednesday	Thursday	Friday	Saturday
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5	6	7 Good Friday	8
Winter Term Ends	13	14	15 Final Exams Begin
19	20	21	22
26	Final Exams End	28	29



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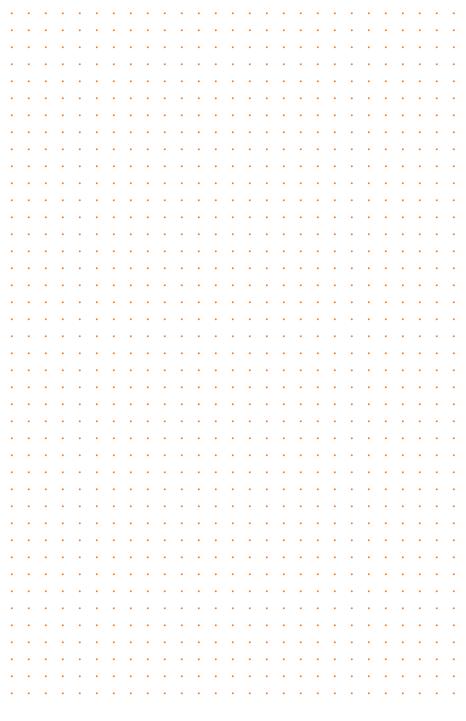
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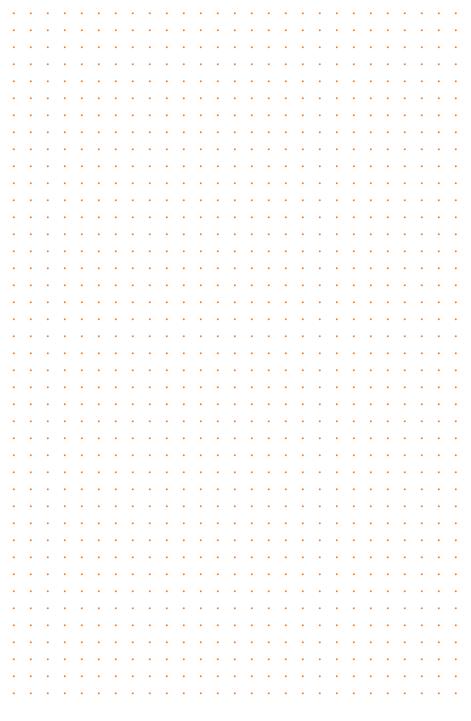
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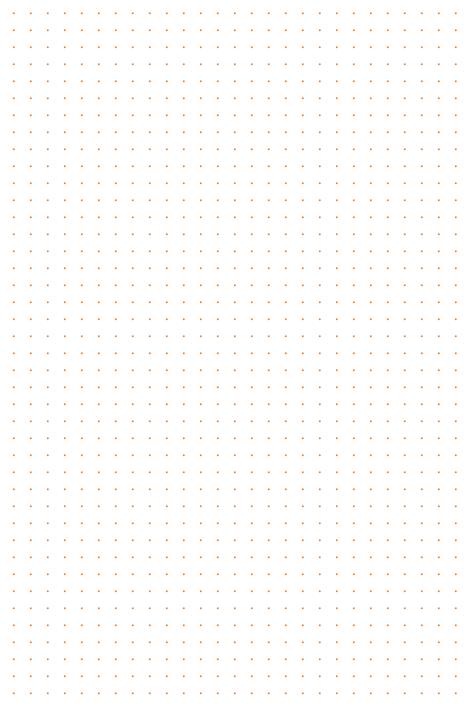
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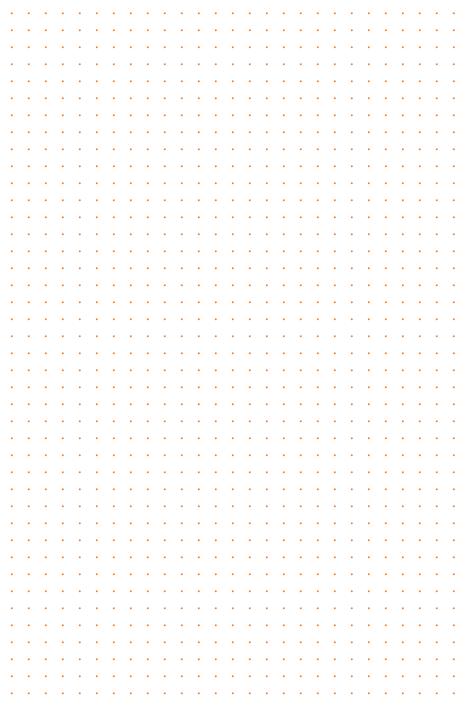
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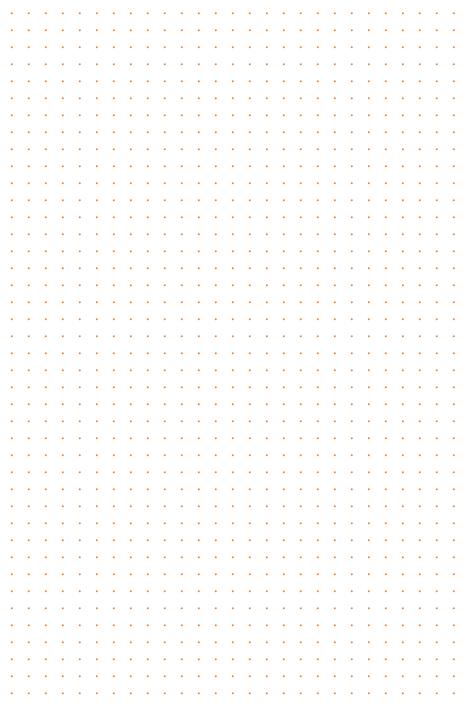
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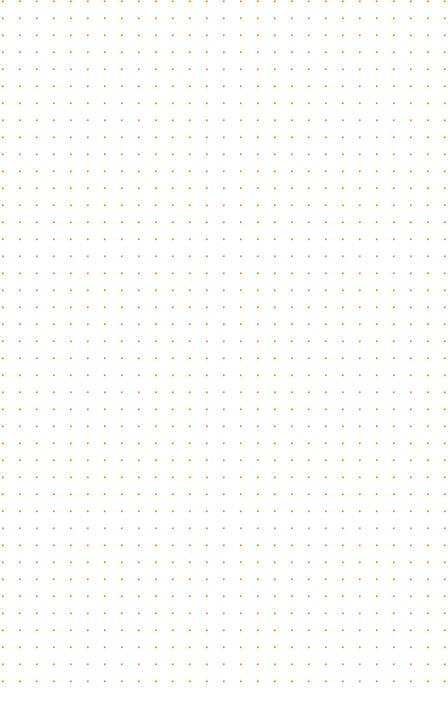
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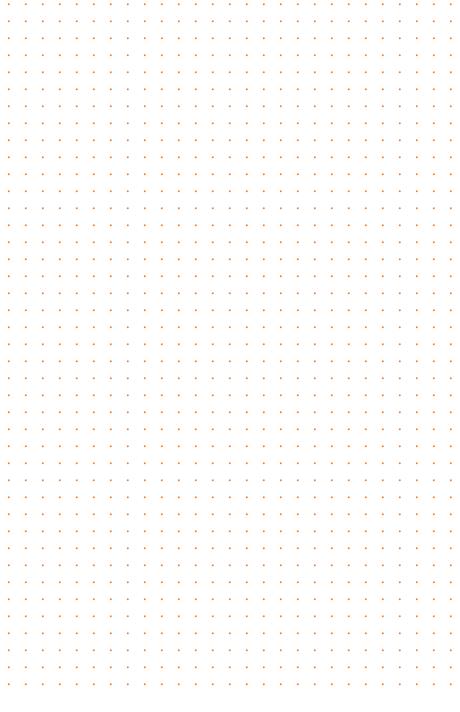


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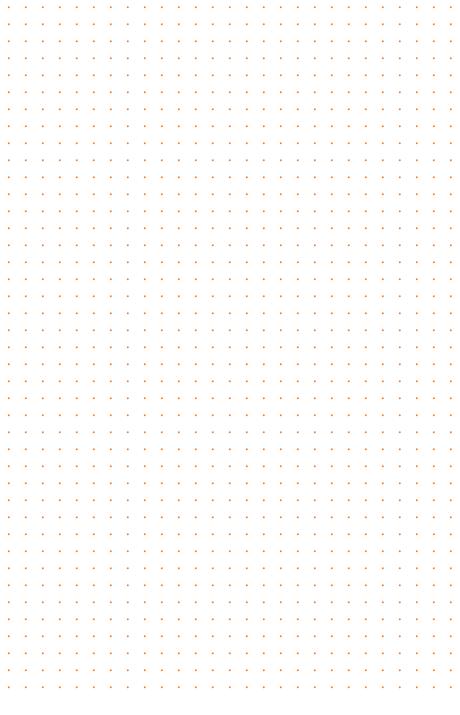


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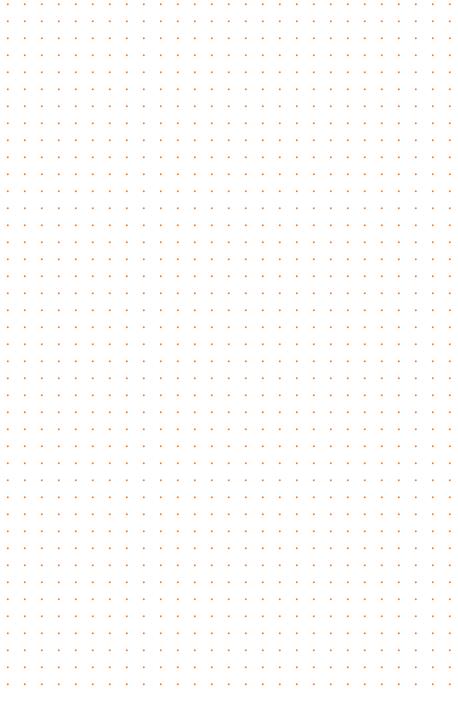


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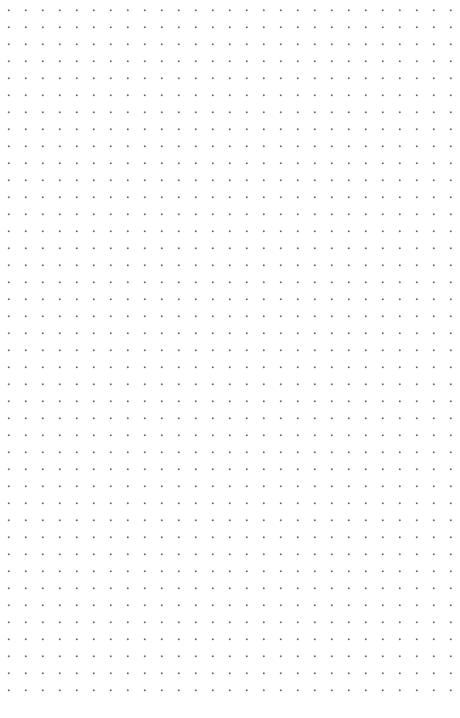
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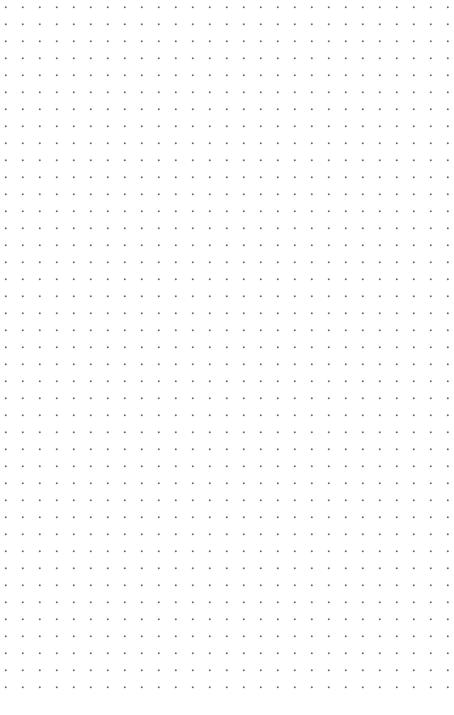
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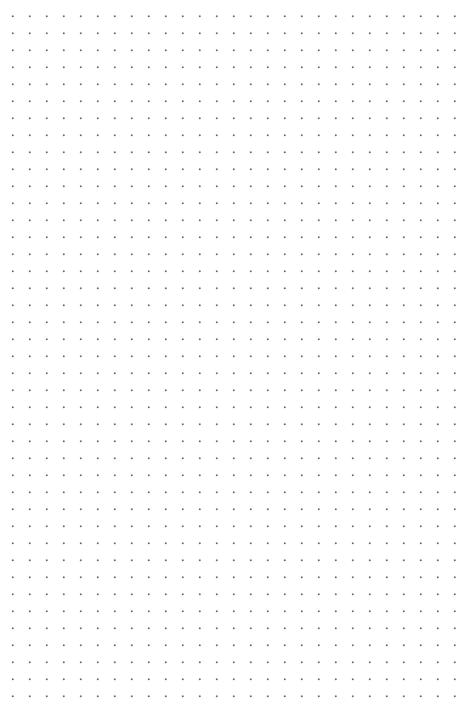




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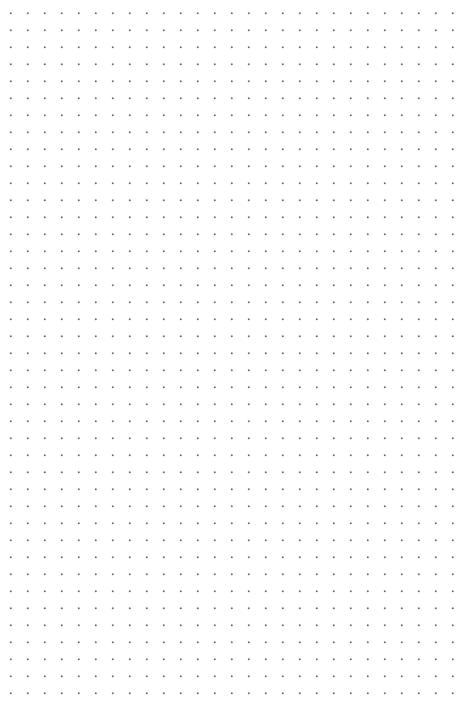
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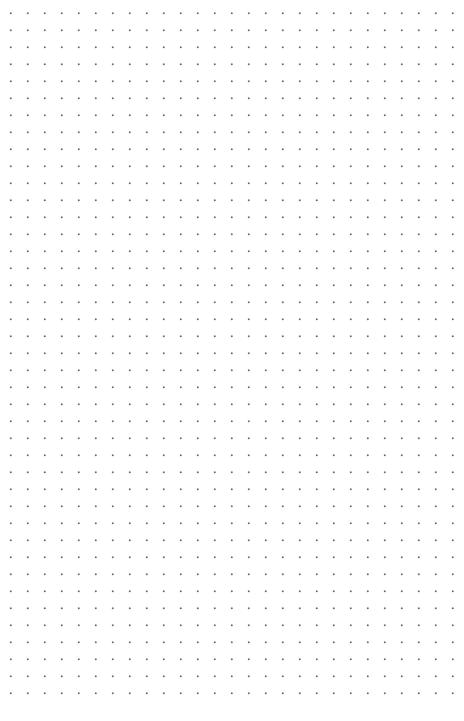
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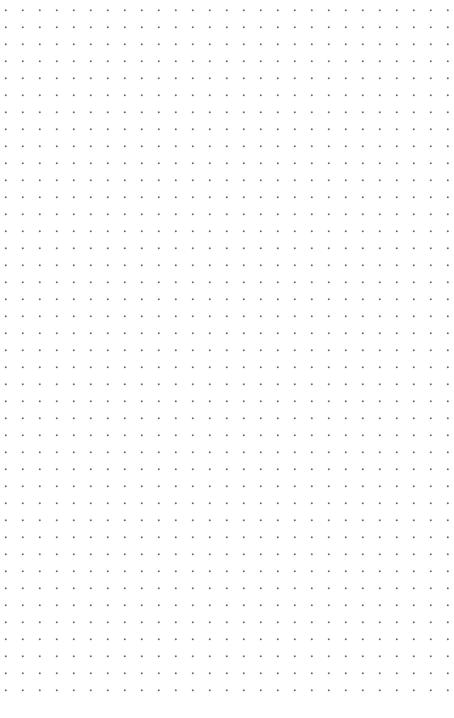
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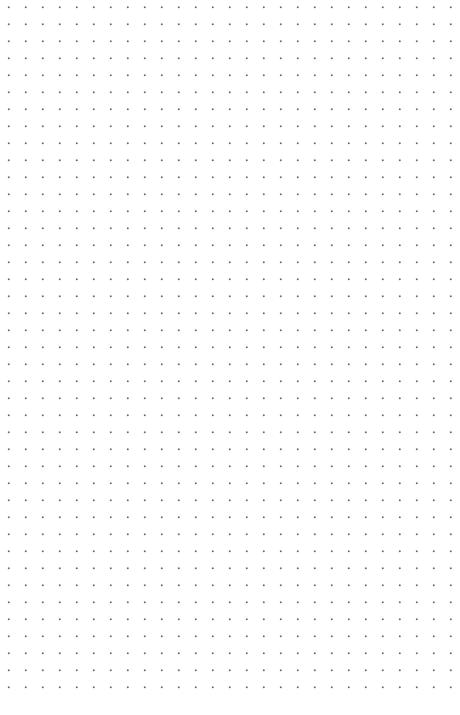
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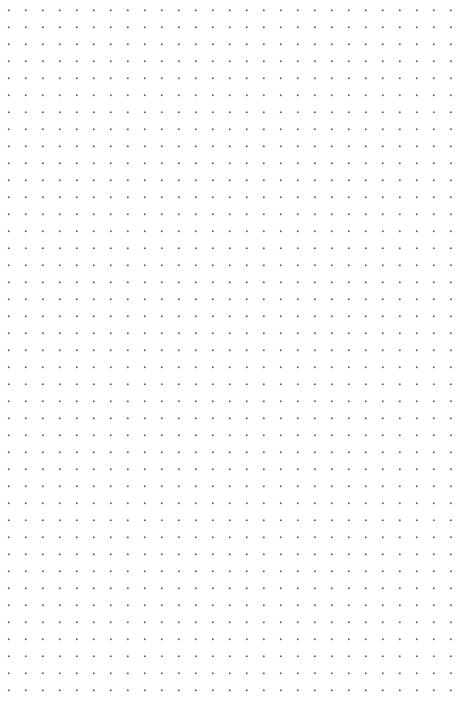
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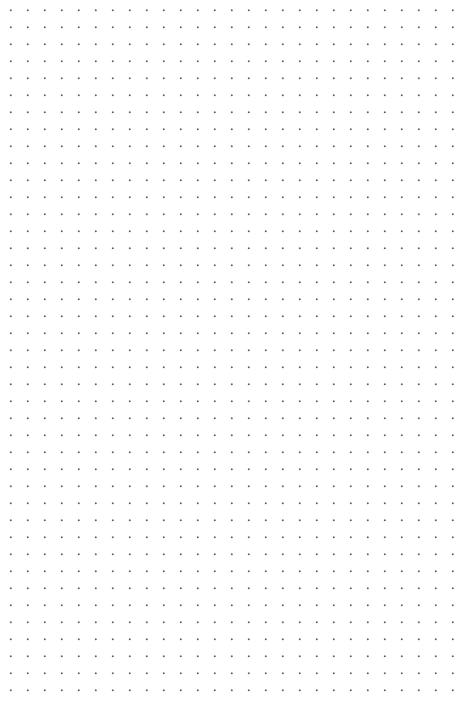




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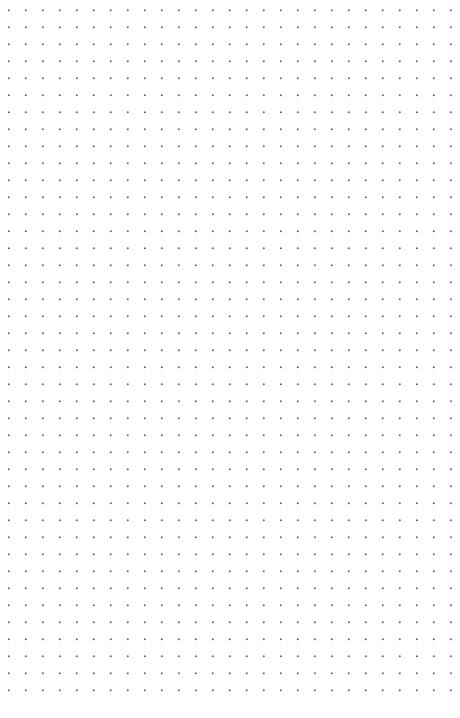
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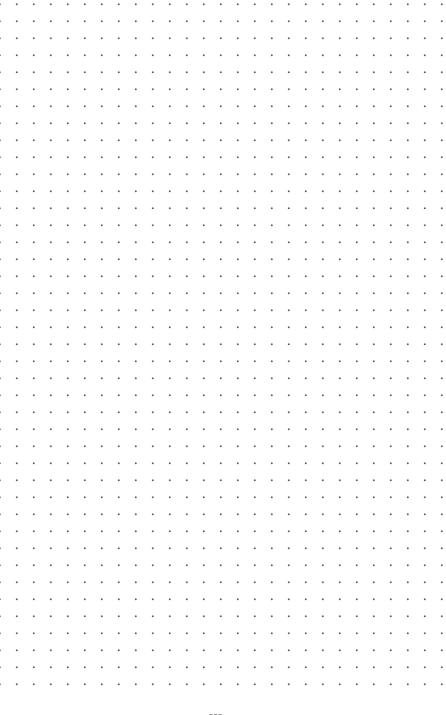
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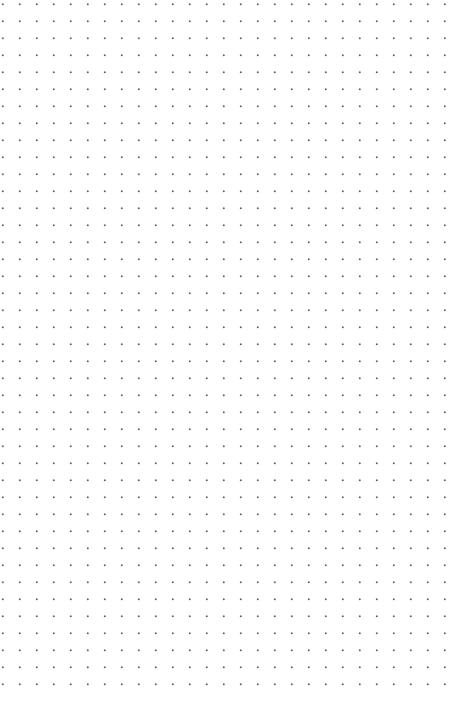
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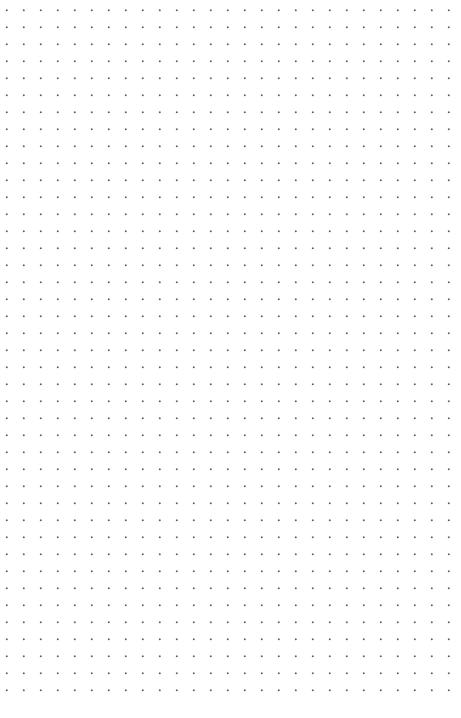


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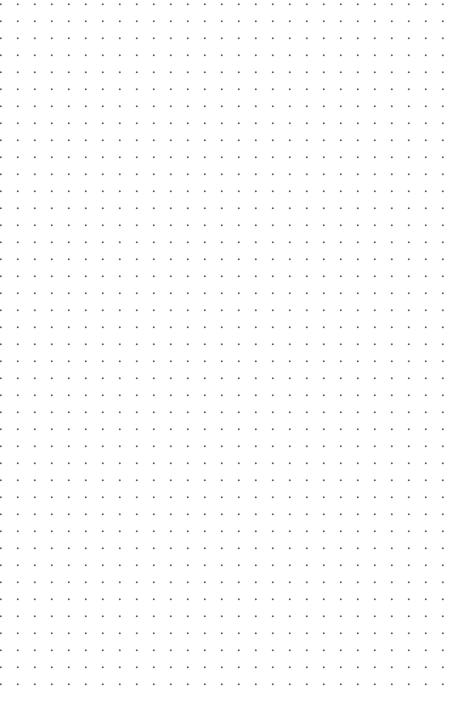
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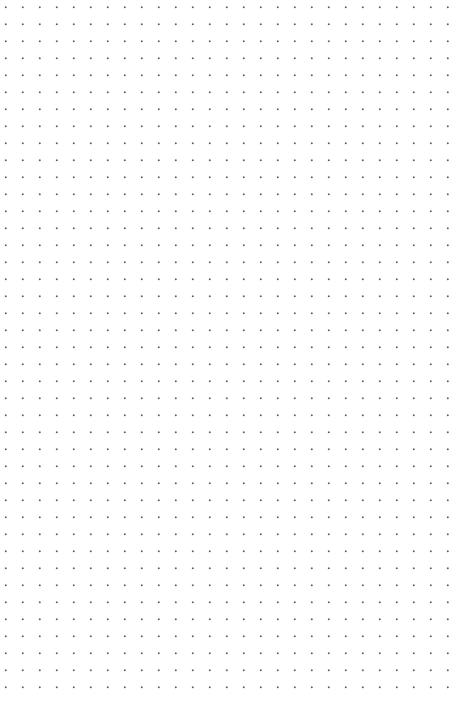
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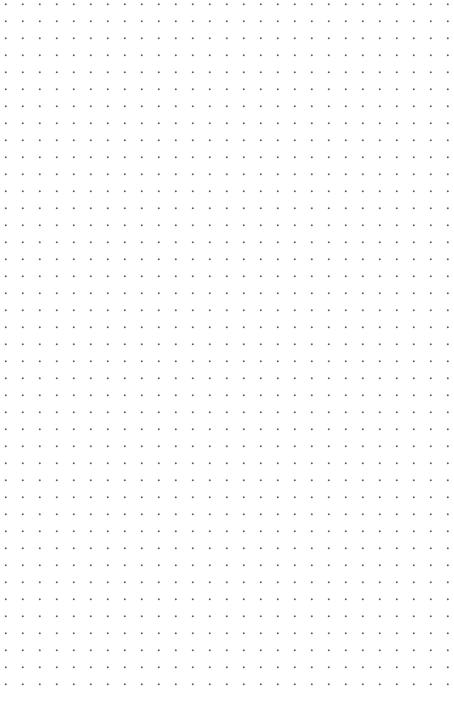
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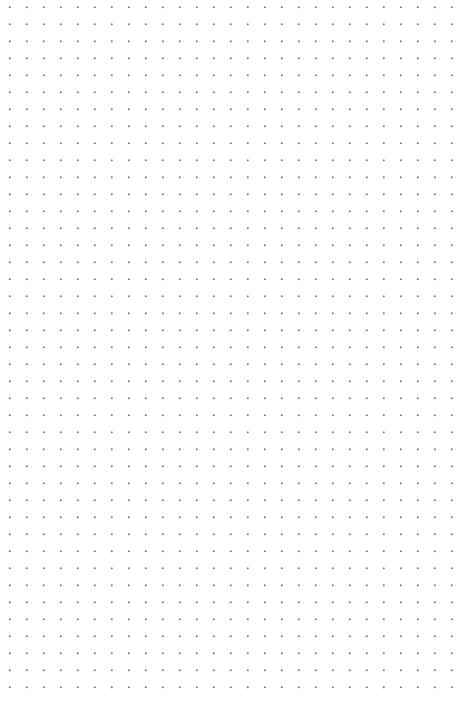
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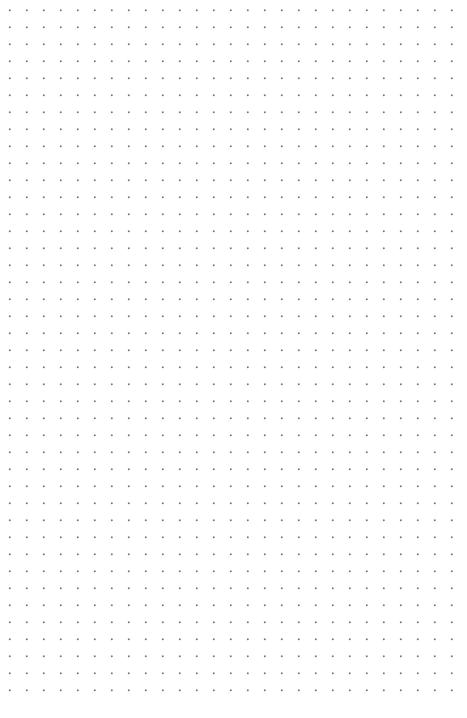
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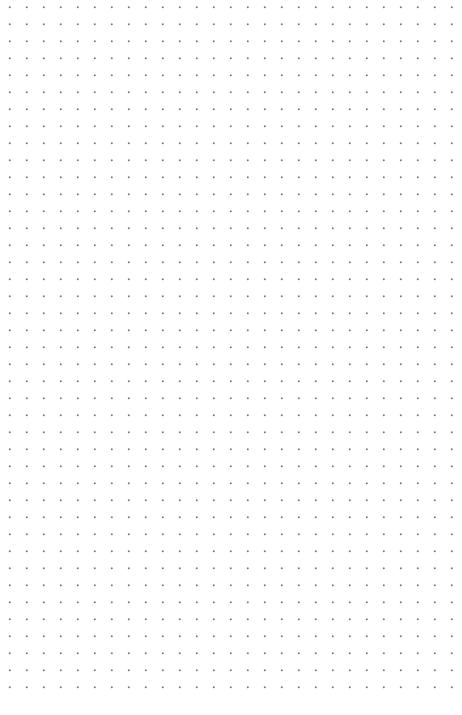
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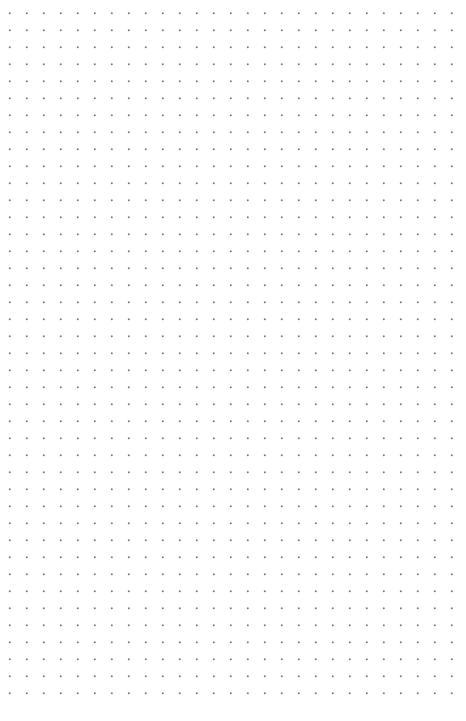
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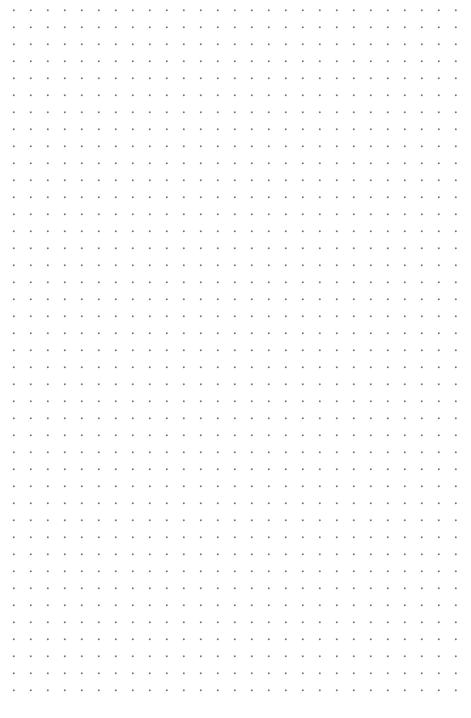
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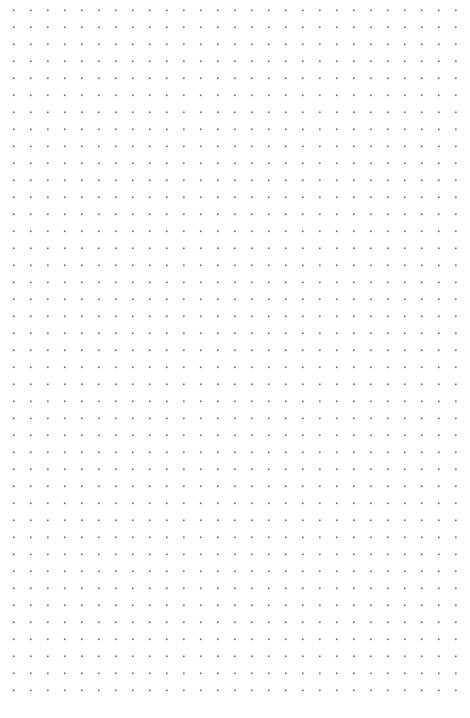


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