



THE UNIVERSITY OF BRITISH COLUMBIA

Engineering

Faculty of Applied Science

# YOUR PLAN

UBC Vancouver WELCOME & REGISTRATION Guide for First Year

ENGINEER YOUR FUTURE



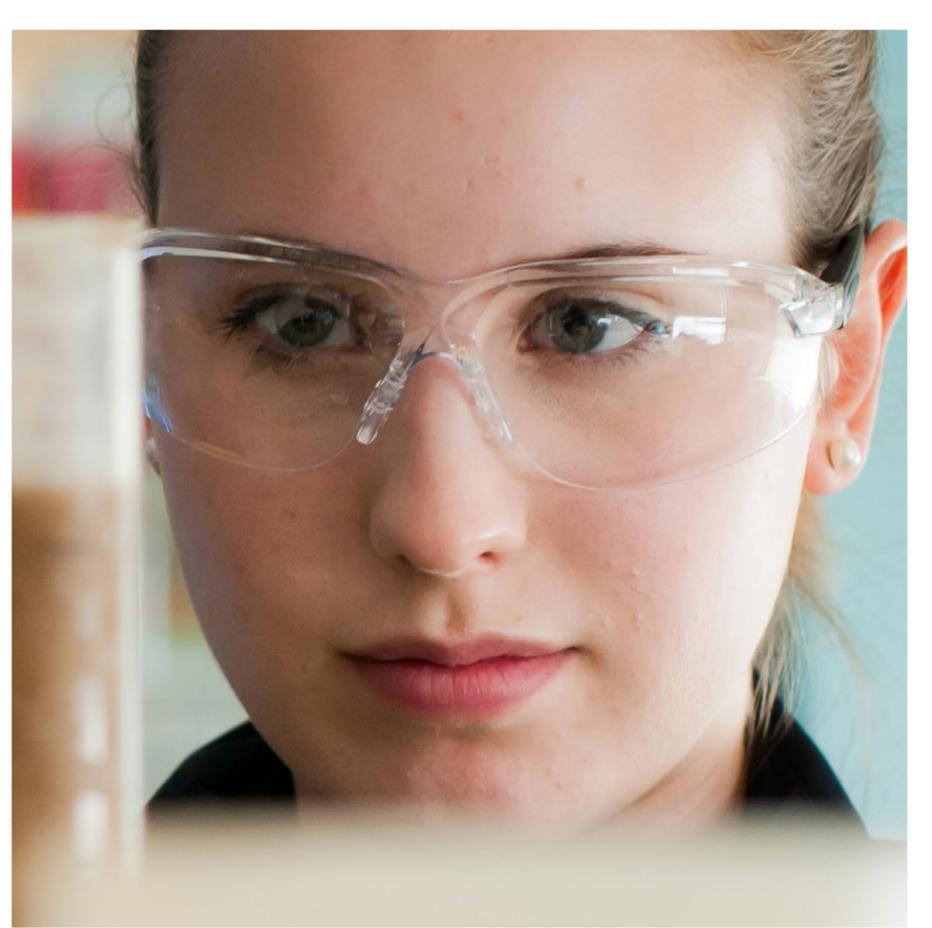
THE UNIVERSITY OF BRITISH COLUMBIA

# WELCOME TO YOUR NEW HOME... UBC ENGINEERING in the FACULTY OF APPLIED SCIENCE

With UBC Engineering you will take on exciting challenges, develop your potential and create life-long connections.

We value this opportunity to welcome you to UBC Engineering and provide the information you need to prepare for registration and beyond. Your time here will be transformative, so we've constructed this guide to highlight the ways that you can enhance your degree, get involved on campus and take advantage of the many opportunities that UBC Engineering offers. This is the beginning of our communication with you, and we hope to develop a connection with you throughout your degree, letting you know about all your options and opportunities.

So welcome, and enjoy the journey.



I had the exciting opportunity to spend an eight-month co-op term in Brisbane, Australia. The experience I gained there is invaluable and it ultimately landed me a full-time job after graduation.

I got to work with talented people from all over the world on a variety of interesting geotechnical projects, as well as travel around the east coast of Australia to see as much as I could. It was a pretty surreal feeling to snorkel the Great Barrier Reef one weekend then return to work on Monday in Brisbane to coordinate a site investigation in Fiji. I also got to experience the catastrophic floods that occurred in Queensland and the amazing effort of the community to clean up and help those in need. When I returned to school in September, I used my knowledge of and research on the floods for a class project. It's pretty cool how things are interconnected and eventually come together later on.

— JARED WHITEHEAD, CIVIL ENGINEERING GRADUATE

## REGISTRATION INFORMATION:

Start here →

Engineering students register using a [Standard Timetable \(STT\) - Year 1](#) and add other courses as required.

You will need to **ADD** a three-credit [first-year English course](#) **AND** a three-credit [humanities/social sciences elective](#) from the Faculty of Arts to your STT.

The following pages contain your registration information. Ensure that you refer to the section (High School Students or Transfer Students) that best describes your studies prior to entering our program.

**High School Students:** If you are entering first year engineering directly from high school, you will be building on your existing knowledge in chemistry, math and physics, giving you a foundational year before you apply for your specialization next year. Check out pages 6-8 for your registration and orientation information.

**Transfer Students:** If you are entering first year engineering from another post-secondary program or institution with transfer credits towards our first year chemistry, math and physics, you will complete the remaining first year requirements as well as some common second year courses before you apply for your specialization next year. Check out your registration and orientation information on pages 10-12.



During my time in engineering the most valuable thing that I have learned is how to approach problems with the aim of not just solving them, but understanding them.

I have learned the value of first asking why a problem exists. I have also learned how necessary it is to understand the system the problem exists within before working on a solution. Chemical engineering has taught me to think about systems and has taught me how to consider the interactions between various components of a system. Taking a systems-thinking approach to problems is something that I have been able to apply far beyond the scope of chemical processes and it is a skill that I think is really important. At the end of the day, being able to come back to a problem's relevance is crucial for me. I think that engineering has given me the tools to do this and has been a key part of my education.

— KAITLYNN LIVINGSTONE, CHEMICAL AND BIOLOGICAL ENGINEERING GRADUATE

# GET REGISTERED: HIGH SCHOOL STUDENTS

1

## ACCEPT YOUR OFFER!

- **You will need to accept your offer** by signing in to [students.ubc.ca/ssc](https://students.ubc.ca/ssc) using your Campus-Wide Login (CWL) and clicking “Accept or Decline My Offer” under “Admissions.” You must also satisfy any **outstanding conditions** of your Offer of Admission (check your Offer Letter for details).
- **If you need help registering** at any time, see the FAQs and Video Tutorials in the “Need Help?” section on the home page of your SSC account or [click here](#).

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## PLAN

- **Find out the date and time your online registration opens.** First-year registration takes place June 19-21, during which time you will be assigned a specific date and time to register. Approximately two weeks before, you’ll get an email to let you know your personalized registration date and time are posted in the SSC. Register anytime at the start of (or after) your appointed time. Some STTs fill up, so you are encouraged to register as soon as possible.
- **Create multiple worklists** containing your preferred STTs **and additional courses**. Do not select the PM or the BME STTs unless you have been formally accepted to Pre-Alternative Pathway or Pre-Biomedical Engineering. Your STT will include courses for both Term 1 and Term 2 (choose Winter 2018 session). You can create multiple worklists so that if an STT is full on the day you register, you have alternate options ready. Try to balance your credit load equally per term.
- **Regarding mathematics, you should select the STT that has the right Math course for you:** HS timetables include MATH 100. HT timetables include MATH 180. Refer to [math.ubc.ca/Ugrad/ugradCourses/ugradCal-choices.shtml](https://math.ubc.ca/Ugrad/ugradCourses/ugradCal-choices.shtml) for guidance for which math course is the right one for you.
- **Missing Physics 12 (or the equivalent)?** You will need to register in a modified timetable — register in the timetable labelled “HP01.”
- **ADD a 3-credit first-year English course AND a 3-credit humanities/social sciences elective to your STT.** We recommend English 112. For your elective, we recommend a **100-level course** from the Faculty of Arts. There are some exceptions such as courses in fine arts or performance music. See FAQ (p.13) for more information.

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## CHECK

- **All students must meet the First-year English course entry requirements** before taking an English course. Check [this flowchart](#) to see if you meet the requirement. If you do not meet the requirement, you will need to take the [Language Proficiency Index \(LPI\)](#) test, and should register your English course for term two. If you still have questions, see the [UBC Department of English’s FAQs](#).
- **Advanced Placement (AP), International Baccalaureate (IB) or British-patterned education exemptions/credits.** Register for your full 37 credit load. Once your results are updated in the SSC (July or August), you can change your registration. You can use your credit and drop the corresponding course or substitute the courses dropped with other courses to fulfill your [degree requirements](#). Or you can take a lighter term. We **strongly recommend you don’t use your credits in math and physics** but retake them in your first year. If planning on biomedical, chemical, chemical and biological, geological engineering or materials engineering, you should also retake chemistry. [students.engineering.ubc.ca/high-school-credit](https://students.engineering.ubc.ca/high-school-credit).

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## REGISTER!

- **Log into your account on the SSC**, select the worklist you’d like to register for and click “Register All” to register all the courses in this worklist. If you don’t register via a worklist you must register in an STT **before** adding additional courses. The system will not allow you to register in an individual course before registering in an STT.
- **To register in specific courses in your worklist**, check the boxes for these courses and click “register selected.”
- **To register in courses that have not been saved to a worklist**, choose the course and section you want under “course listing” and click “register section.”
- **If you are attempting to switch a course in the STT** to a preferred section of the same course, use the “switch course section” function (you will not be dropped from the original section unless you are eligible for the new section).
- **If you have any questions**, please read this registration guide carefully first! Then, check the FAQ webpage or the [“FY1819” Facebook page](#); you will find your answer there quicker.
- **If you experience any registration difficulties**, [check this page first](#) (see section titled ‘common registration issues’), and if you still can’t resolve your issue, contact your [Enrolment Services Professional \(ESP\)](#) or Engineering Student Services (see the last page of this guide for contact details).
- **After you’ve registered, click on “timetable”** to view your course schedule for Term 1 and Term 2.

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## CONFIRM

- **Check your financial account** on the SSC to see how much tuition you owe and when fees are due. **You will not receive a fee statement in the mail, so it’s up to you to pay your fees on time!**
- **Not sure what it’s all going to cost?** Read [UBC’s guide to first-year costs](#) (including the [online cost calculator](#)) to see the approximate costs for the year’s tuition, housing, books and other items.
- **Congratulations!** You’ve successfully registered. **Keep reading though...**

## Typical First-Year Engineering Course List (for students entering UBC from high school)

APSC 100	Introduction to Engineering I
APSC 101	Introduction to Engineering II
APSC 160	Introduction to Computation in Engineering Design
CHEM 154	Chemistry for Engineering
MATH 100*	Differential Calculus with Applications to Physical Science and Engineering
MATH 101	Integral Calculus with Applications to Physical Sciences and Engineering
MATH 152	Linear Systems
PHYS 157	Introductory Physics for Engineers I
PHYS 158	Introductory Physics for Engineers II
PHYS 159	Introductory Physics Lab for Engineers
PHYS 170	Mechanics I

### Add to your STT:

ENGL 112	<a href="#">First-year English</a> or equivalent (ENGL 110 or ENGL 111)
3 credits	<a href="#">Humanities/Social Sciences elective</a> (in the Faculty of Arts — recommend 100-level course)

**Total Credits: 37**

\* **MATH 100 or 180?** Choose the STT that contains the correct math course for you: [www.math.ubc.ca/ugrad/ugradcourses/ugradcal-choices.shtml](https://www.math.ubc.ca/ugrad/ugradcourses/ugradcal-choices.shtml).

# YOUR LIFELONG CONNECTIONS START HERE — GET INVOLVED!

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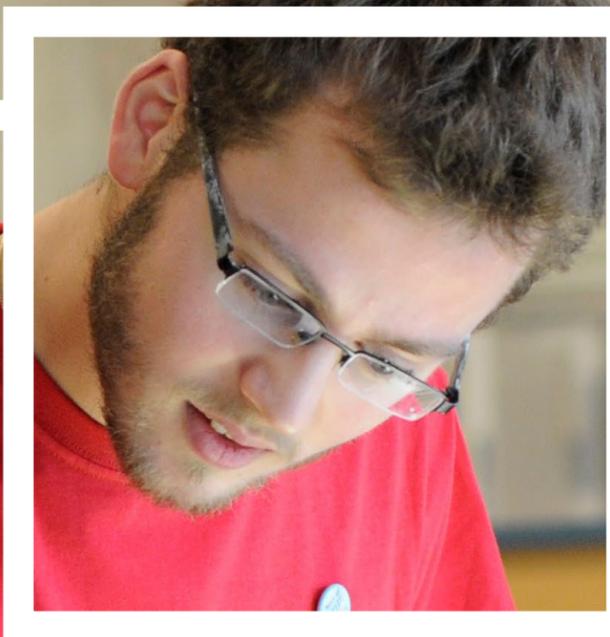
### CONNECT

- **Join the “Official UBC Engineers First Years 2018-2019” Facebook group** — search **‘fy1819.’** This is the official Facebook group for your year. Connect with future classmates and current students. Ask questions now, and get info on upcoming events, important dates or deadlines and opinions about student life on campus. This is an important communication group to be part of — join now!
- **Stay informed** — read the **e-nEUS; this is YOUR e-newsletter!** Get news and information about what you need to know and when you need to know it: academic, professional development, job, scholarship and social news and opportunities. The e-nEUS is published by your [Engineering Undergraduate Society \(EUS\)](#). You will receive this automatically (keep your email address updated in the SSC!) and should get the first one in August. Starting in September you’ll receive it weekly on Sundays.
- **Get Involved** — Join a student design team, a club, the EUS, the fraternity or the sorority — it’s the best way to make friends! Explore additional ways to enrich your experience at [students.engineering.ubc.ca/life](#) or wait til you get here and attend “Club Days” in September (check the e-nEUS).

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### ORIENTATION — don’t miss out!

- **Sign up for JUMPSTART.** This amazing transition program will set you up for success before classes start. A one-week program in August to help introduce you to the university, your faculty and new friends. **REGISTER by July 5!**
- **Attend IMAGINE DAY.** Welcome to your first day of the academic year — you will make new friends, meet with student leaders and professors, get to know your faculty and learn about the services we offer to support you, as well as many ways you can get involved on campus.



Definitely, my most memorable experience at UBC has been the time I’ve shared with my friends. Studying together, teaching one another, working together, helping each other or just talking about the future.

I feel like I’ve learned and accomplished a lot during my time at UBC; much more than I first thought I was capable of. But what stays with me more than what I’ve achieved, is who I achieved it with. I’m fortunate to have had the opportunity to work with truly fantastic people who have become some of my best friends.

— JACOB BAYLESS, ENGINEERING PHYSICS GRADUATE

# GET REGISTERED: FIRST YEAR TRANSFER STUDENTS

1

## ACCEPT YOUR OFFER!

- **You will need to accept your offer** by signing into [www.students.ubc.ca/ssc](http://www.students.ubc.ca/ssc) using your Campus-Wide Login (CWL) and clicking "Accept or Decline My Offer" under "Admissions." You must also satisfy any **outstanding conditions** of your Offer of Admission (check your Offer Letter for details).
- **If you need help registering** at any time, see the FAQs and Video Tutorials in the "Need Help?" section on the home page of your SSC account or [click here](#).

2

## PLAN

- **Find out the date and time your online registration opens.** First year registration takes place June 19-21, during which time you will be assigned a specific date and time to register. Approximately two weeks before, you'll get an email to let you know your personalized registration date and time are posted in the SSC. Register anytime at the start of (or after) your appointed time. Some STTs fill up, so plan ahead so you can register as soon as you are able.
- **As a First Year Transfer student:** You will select the BASC "**ST - First Year Engineering (Science Transfer Group)**" STT. This STT contains some courses which transfer students typically still need to complete. You will need to individually **ADD courses you are missing from our First Year Program** (needed for 2nd year prerequisites and to graduate). You can drop the courses from the STT you have credit for on registration day.
- **Create multiple worklists** containing your preferred STTs and additional courses. Your STT will include courses for both Term 1 and Term 2 (choose Winter 2018 session). You can create multiple worklists so that if an STT is full on the day you register, you have alternate options ready. Try to balance your credit load equally per term. You cannot drop any courses from a worklist, but can drop courses from your timetable when you are registering. Do not drop any courses from your STT until UBC has awarded you specific credit for a course (don't assume you will get specific credit if it is 'unassigned credit').
- **Adding other courses:** You can take up to 30 credits, so if you are looking for courses to fill your schedule, you can add an [Impact of Technology on Society elective](#) or [Humanities/Social Sciences elective](#). If you have all your first year math courses completed, you could consider taking a second year math course to work ahead (see page 12). Check the UBC Calendar course requirements for the programs you are interested in (however, be aware that you are not guaranteed placement in any specific program, so taking courses that satisfy one program but not another may be a risk).

3

## CHECK

- **Unassigned credit:** If you have unassigned credit (e.g. MATH 1st (3)) which you would like specific UBC credit for, you can request a reassessment of credit. [Follow the steps on our website](#). Register for the courses you need and you can change your registration if you receive additional credit through your request.
- **First Year Students hoping for Second Year Placement:** If you completed coursework for 27 credits of our First Year Program by April 30, you should be promoted to Second Year, and you should have filled in a program **preference form** (please phone us if you have not been promoted or have not filled in the form).

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## REGISTER!

- **Log into your account on the SSC**, select the worklist you'd like to register, and click "register all" to register all the courses in this worklist.
- **To register in specific courses in your worklist**, check the boxes for these courses and click "register selected."
- **To register in courses that have not been saved to a worklist**, choose the course and section you want under "course listing" and click "register section."
- **If you have any questions**, please read this registration guide carefully first! Then, check the FAQ webpage or the ["FY1819" Facebook page](#); you will find your answer there quicker.
- **If you experience any registration difficulties**, [check this page first](#) (see also 'troubleshooting registration' section at the end), and if you still cannot resolve your issue, contact your [Enrolment Services Professional](#) (ESP) or Engineering Student Services (see the last page of this guide for contact details).
- **After you've registered in courses for your entire first year**, click on "**timetable**" to view your course schedule for Term 1 and Term 2.

5

## CONFIRM

- **Check your financial account** on the SSC to see how much tuition you owe and when fees are due. **You will NOT receive a fee statement in the mail, so it's up to you to pay your fees on time!**
- **Not sure what it's all going to cost?** Read [UBC's guide to first-year costs](#) (including the [online cost calculator](#)) to see the approximate costs for the year's tuition, housing, books and other items.
- **Congratulations!** You've registered for your first year.

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## CONNECT

- **Join the "Official UBC Engineers First Years 2018-19" Facebook group.** This is the official Facebook group for your year group. Connect with future classmates and current students. Ask questions now, and get info on upcoming events, important dates or deadlines and opinions about student life on campus. This is an important communication group to be part of — join now!
- **Stay informed — read the e-nEUS; this is YOUR e-newsletter!** This is how you will get news and information about what you need to know and when you need to know it: academic, professional development, job, scholarship and social news and opportunities. The e-nEUS is published by your [Engineering Undergraduate Society](#) (EUS). You will start receiving this automatically (keep your email address updated in the SSC!). You should get the first one in August, and then in September you'll receive it weekly on a Sunday evening. Read it to be informed.
- **Get Involved** — Join a student design team, a club, the EUS, the fraternity or the sorority — it's the best way to make friends! Explore additional ways to enrich your experience at [students.engineering.ubc.ca/life](http://students.engineering.ubc.ca/life) or wait til you get here and attend "Club Days" in September (check the e-nEUS).

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## ORIENTATION - don't miss out!!

- **Attend IMAGINE DAY.** Welcome to your first day of the academic year — you will make new friends, meet with student leaders and professors, get to know your faculty and learn about the services we offer to support you, as well as many ways you can get involved on campus.

## Course List Options for Transfer Students

You are responsible for completing ALL [First Year Program courses \(or their equivalents\)](#). Transfer students typically still need to complete the following courses; however, if you are missing more of our First Year Program, you will need to add those courses to your course schedule.

APSC 100	Introduction to Engineering I (if you have credit for CHEM 121 and 123, only take APSC 100)
APSC 101	Introduction to Engineering II (if you have credit or are taking CHEM 154, take both APSC 100 and 101)
APSC 160	Introduction to Computation in Engineering Design
MATH 152	Linear Systems (or MATH 221)
PHYS 170	Mechanics I

### Courses to fulfill your degree requirements:

3 credits	Impact of Technology on Society elective (this is already built into civil engineering STT)
3-6 credits	Humanities/Social Sciences elective (need minimum 6 credits to graduate)

### If you have space to take more credit to work ahead (please check the footnotes)\*\*

MATH 253	Multivariable Calculus (or MATH 200)
MATH 255	Ordinary Differential Equations (or MATH 215)
MATH 257	Partial Differential Equations (or MATH 316)
STAT 251	Elementary Statistics (required in third year of many programs)

MATH 253, 255 and 257 are also used as combination equivalents for courses, required in a few programs, like MATH 217 (same as MATH 253 and 317) or MATH 256 (same as MATH 255 and 257), so taking MATH 253, 255 and/or 257 could help you work ahead.

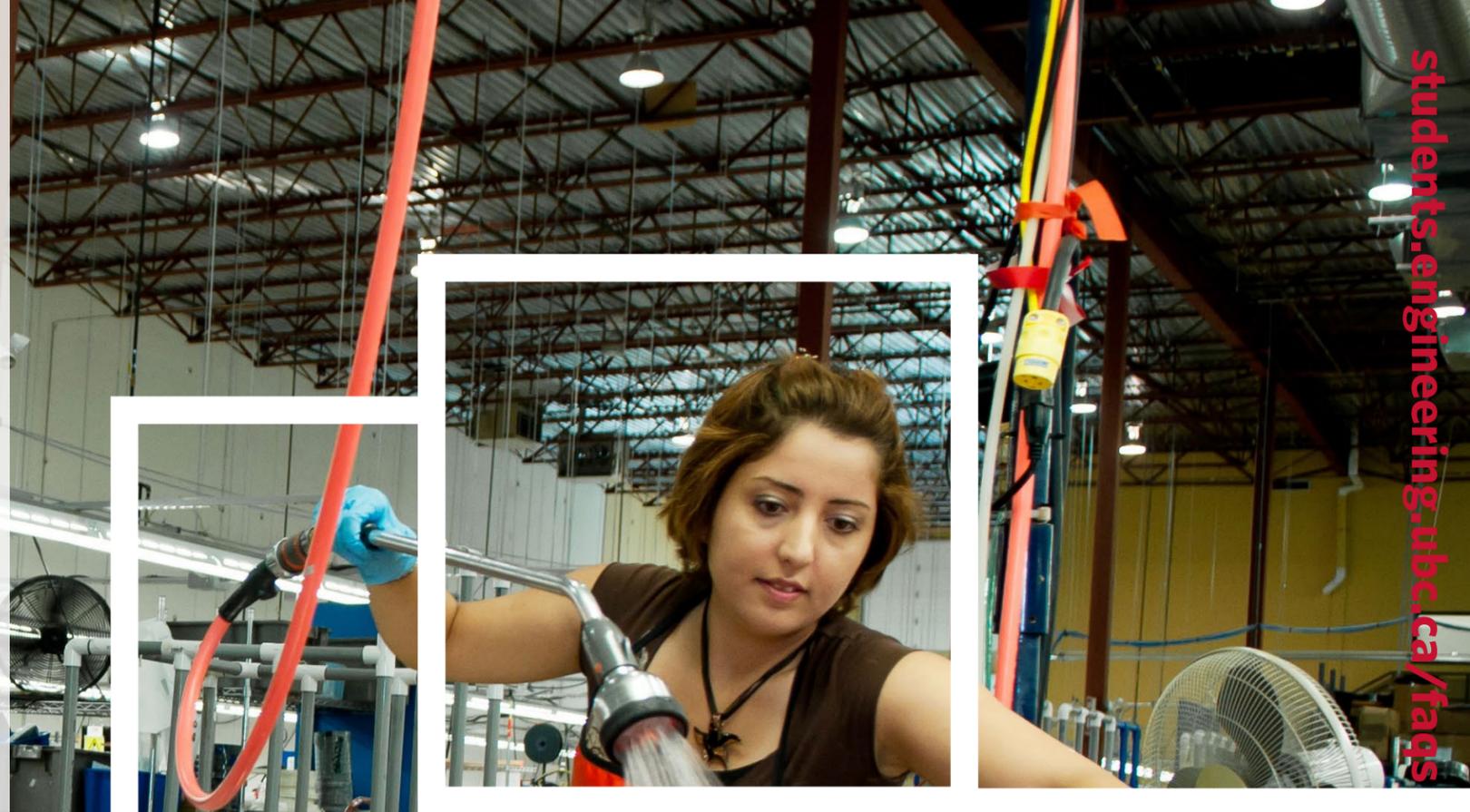
### Total: Up to 30 credits

**\*\* Please Note: the courses above are only SUGGESTIONS. Second year math and statistics courses are common to many but not all department/programs. Check the UBC Calendar course listings for the programs you are interested in and most likely to apply for, to decide if the math or statistics courses are appropriate for you.**

The overall thing that has made [my time at UBC the most] memorable has, without a doubt, been the people: people who have supported me, challenged me, given me opportunities, saved me in a moment of need or asked for my help and in doing so helped me learn even more.

UBC's culture of student engagement and involvement outside the classroom, as well as the unbelievable level of acceptance for people I found here, made this institution feel like home. And all of these qualities were especially noticeable in engineering.

— SEAN HEISLER, INTEGRATED ENGINEERING GRADUATE



## FAQ

### What happens if I have AP, IB or British-patterned education credit?

Register for your full credit load. Once your results have been updated on your UBC record, or if you are confident you will receive credit, you can make changes to your registration. **We strongly recommend you do not use your math or physics credits but to retake them in your first year.** For more information, go to: [students.engineering.ubc.ca/high-school-credit](https://students.engineering.ubc.ca/high-school-credit).

### I don't see English or a humanities/social sciences elective on my timetable. Do I have to add them?

Yes. Your timetable has most of your courses, but you **must add** English 112 (or ENGL 110 or ENGL 111) and a humanities/social sciences elective (see below).

### What should I take as a humanities/social sciences elective?

You should take a 3 credit course from the Faculty of Arts in your first year. **Exceptions:** scientific geography courses, statistics courses, technical or scientific courses, studio/performance courses in fine arts, music and theatre (further exceptions are ANTH 140, CLST 301, PHIL 125, PHIL 220, PSYC 218). Choose courses that reflect your interests or ones in which you might excel. If you think you may do a minor later on, consider taking a course that would benefit its requirements (e.g. [ECON 101 for the Minor in Commerce](#)).

### I don't have a full 37 credit course load. Is that ok?

Yes, if you have received credits from AP, A Levels or IB to exempt you from requirements in the first year program, you can drop courses from your STT and choose to take a lighter load (or move ahead and register for another three credits humanities elective). It is however strongly recommended that you retake math and physics (and chemistry for students are intending to pursue biomedical, chemical, chemical and biological or materials engineering in second year).

### I'm a varsity athlete. What do I do if my training schedule clashes with the available timetables?

We will assist you in creating a schedule that will accommodate your varsity commitments. Register for the STT that most fits your schedule to reduce the number of changes. Email [students@apsc.ubc.ca](mailto:students@apsc.ubc.ca) with the changes that you will require. Include your student number, varsity schedule and preferred course sections.

**For questions about waitlists and more, visit [students.engineering.ubc.ca/faqs](https://students.engineering.ubc.ca/faqs), or join the Facebook group FY1819 where you can ask questions, read other students' questions and get responses from current students and UBC Engineering staff.**

Please **NOTE:** in order to advance to second-year, you need at least 27 credits of our first year program.

# IMPORTANT LINKS

## Student Links

- Your Student Account: [ssc.adm.ubc.ca/sscportal](http://ssc.adm.ubc.ca/sscportal)
- Frequently Asked Questions: [students.engineering.ubc.ca/faqs](http://students.engineering.ubc.ca/faqs)
- Engineering student website registration information: [students.engineering.ubc.ca/registration](http://students.engineering.ubc.ca/registration)
- Humanities/Social Sciences elective: [students.engineering.ubc.ca/enrolment/degree-requirements](http://students.engineering.ubc.ca/enrolment/degree-requirements)
- Engineering student website: [students.engineering.ubc.ca](http://students.engineering.ubc.ca)
- Online calendar: [www.calendar.ubc.ca/vancouver](http://www.calendar.ubc.ca/vancouver)
- e-nEUS e-newsletter: [ubcengineers.ca/eneus](http://ubcengineers.ca/eneus) (emailed to you every Sunday during term - read it!)
- Your First Year Facebook Group: [facebook.com/groups/fy1819](https://facebook.com/groups/fy1819) (Join it!)
- Facebook for all engineering students: [facebook.com/groups/UBC.Engineering](https://facebook.com/groups/UBC.Engineering) (Join it!)
- Twitter: [@UBCEngineers](https://twitter.com/UBCEngineers)
- Flickr: [flickr.com/photos](http://flickr.com/photos)

## Faculty Links:

- UBC website: [students.ubc.ca](http://students.ubc.ca)
- Facebook: [facebook.com/UBCEngineering](https://facebook.com/UBCEngineering)
- Twitter: [@UBCEngineering](https://twitter.com/UBCEngineering)
- Google+ photos: [plus.google.com](https://plus.google.com)
- YouTube: [youtube.com/UBCEngineering](https://youtube.com/UBCEngineering)

# SUPPORT FOR YOU

Your Engineering Student Services Staff are here to help.

Don't worry, we've got you covered. You can contact Engineering Student Services for any advice or information you need to maximize your undergraduate experience.

**Most new students don't need to consult an advisor before registering.**

If you have a question, try our webpage [students.engineering.ubc.ca/registration](http://students.engineering.ubc.ca/registration), our FAQs page or the first-year Facebook page first. If, after reading this guide, the FAQs and looking at the questions posed on Facebook, your question is still not answered, please contact us (see details below).

If you are having a technical issue registering, you can contact your [Enrolment Services Professional](#) or Engineering Student Services.

### UBC Vancouver Engineering Student Services

1100-2332 Main Mall  
Vancouver, BC Canada V6T 1Z4

Phone: +1 604 822 6556

Email: [students@apsc.ubc.ca](mailto:students@apsc.ubc.ca)

[students.engineering.ubc.ca/faqs](http://students.engineering.ubc.ca/faqs)