

**Sustainable Energy Engineering Schedule
Tips and Tricks
Sustainable Energy Engineering
Faculty of Applied Sciences
Simon Fraser University**

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Introduction

Face it, we've all been there (or at least you will soon); an in depth look at the base SEE schedule and the realization that the next few years of your life will be crazy. I guess that's one of the things about being in a newer engineering program, the courses are cool but the schedule can get messy, especially when there isn't much space to move things around. Having been the guinea pigs of the program, my peers and I experienced first-hand what both good and bad schedules can look like. So, that's why I decided to create this document. It is meant to help anyone who has no idea what they're doing or what steps to take towards graduating without following the exact SEE curriculum. It is NOT a replacement for our amazing advisors (seriously, they're lifesavers), but more of a resource to help plan for when meeting with advisors, so that you'll have an idea of what you want to do. Please also keep in mind this the document is filled with my personal suggestions and you don't need to follow them by any means(: Here, I hope to alleviate some probable stress concerning courses and curriculum so that you will have a (slightly) less intensive university experience. Enjoy!

Schedules

Here I will outline the base schedule as well as some alternatives that I've come up with so far. Please do not follow my alternate schedules extensively, these are only suggestions that I've thought of and are not definitely plausible. Make sure to talk to an advisor to discuss how you would like your degree to look like.

Base Schedule

This is the schedule that we're all given at the beginning of our degrees in Sustainable Energy Engineering. The first-year courses are extremely important because they provide the baseline to the vast majority of the SEE courses. Yes, I know, summer classes. Ew. But not really. I'll be honest, they definitely aren't easy, but they are manageable, especially if you've already gotten through both the fall and spring semesters.

Some things to keep in mind:

- This is the condensed schedule of the program. Because our program is so new, it is also the only existing schedule so far
- There are many variations to the schedule, but keep in mind that it is easiest to take the SEE courses when they are recommended- at least for now while the program is still small

Sustainable Energy Engineering Schedule Tips and Tricks

- Please note that Math 260 is the same course as Math 310. The course code was changed in fall 2020
- Please note that Chem 121 is equivalent to Chem 120 + Chem 125
- Please note that Phys 140 is equivalent to Phys 120 + Phys 132 and Phys 141 is equivalent to Phys 121 + Phys 133

Fall	Spring	Summer
Math 150/151 Phys 140 Cmpt 130 SEE 100 SEE 101W SEE 110	Math 152 Math 232 Phys 141 Cmpt 135 Chem 121 SEE 111	Math 251 Math 260 SEE 221 SEE 230 SEE 241
Co-op	SEE 222 SEE 224 SEE 225 SEE 231 SEE 242 SEE 251	Bus 238 SEE 310 SEE 324 SEE 331 SEE 341
Co-op	Co-op	SEE 300 SEE 332 SEE 342 SEE 351 SEE 352 SEE 354
REM 321 SEE 325 or 333 SEE 410W SEE Technical Elective I SEE Technical Elective II	B-Hum Elective Geog 324 or 362W SEE 402 SEE 411 SEE Technical Elective III	

So, that's the base schedule. There are some bright and brave souls who can handle this schedule, and I applaud them for it. However, I am not one of them. Therefore, I have (somewhat) constructed alternative schedules for those who are like me. Again, please do not follow these schedules precariously; consult with an advisor first to actually see if they have the remote possibility of working. Not all courses are offered in the same semester each year, and so one wrong move could mess up everything (I might be exaggerating a little, but you get the point...hopefully).

Also note, these alternative schedules were created in lieu of alternatives provided to us. By the time you read this, there could be multiple published SEE schedules with courses and alternatives being offered more than once a year. If so, lucky you, and just skip to the next section of this document.

Alternative Schedule # 1: Change in Co-op Semesters

This schedule is specific to if you can't find a Co-op or feel that you are not ready to do a Co-op in the recommended semester. Again, this is presently based on the lives of myself and my peers and so the courses that I suggest taking might not be available by the time you get to this point.

Some things to keep in mind:

- Graduating on a Co-op term is difficult. You can't graduate on your third (last required) Co-op term; however, if you do a fourth or fifth Co-op then you may be able to graduate right after with an appeal
- Taking non-SEE courses is the easiest way to go if you don't do a Co-op during the suggested semester. Lower division courses and their alternatives are typically offered in multiple semesters
- Unfortunately, as of 2020 the SEE courses aren't offered multiple times a year and so it can be difficult to make up a whole semester when you don't do a Co-op, especially in the fall
- If you can't find a Co-op it's ok. Life will go on. Getting a Co-op can be hard, especially right after your first full year. Don't stress it, believe me, I had to apply for Co-ops in the middle of a pandemic
- From what I understand, the easiest time to take a Co-op (besides the suggested semesters) is in the summer because you will have the space to bump courses back by one semester without much consequence
- In this schedule you can either start or end with a summer Co-op
- You can either do a 12-month Co-op or a 4-month and 8-month Co-op in this alternative schedule
- Please note that REM 231 is typically offered in the fall semester; however, is offered in spring 2022 instead of fall 2021

Fall	Spring	Summer
Math 150/151 Phys 140 Cmpt 130 SEE 100 SEE 101W SEE 110	Math 152 Math 232 Phys 141 Cmpt 135 Chem 121 SEE 111	Math 251 Math 260 SEE 221 SEE 230 SEE 241
Bus 238 B-Hum Elective REM 321 Extra Course	SEE 222 SEE 224 SEE 225 SEE 231 SEE 242 SEE 251	Co-op
Co-op	Co-op	SEE 310 SEE 324 SEE 331 SEE 341 SEE 300 **Could also do co-op here**
SEE 325 or 333 SEE 410W SEE Technical Elective I SEE Technical Elective II	Geog 324 or 362W SEE 402 SEE 411 SEE Technical Elective III	SEE 332 SEE 342 SEE 351 SEE 352

Alternative Schedule #2: 8-Month Co-op

This is a possible schedule if you land an 8-month Co-op in your first Co-op term. I'll be honest, this schedule is probably my least favourite out of all because the second year spring courses are pretty important. However, if you don't mind a weird "in between" summer semester then there's no problem at all.

Some things to keep in mind:

- There is an option to take the summer of second year off as both Bus 238 and the B-hum elective can be taken at any time during the year; however, that also means that you would be doing the three Co-ops all together without getting any new skills from classes in between

Sustainable Energy Engineering Schedule Tips and Tricks

- 8-month Co-ops are quite abundant and so it definitely is possible to get one for your first Co-op term
- If you have more than 75 units then you can also take SEE 300 during your second summer semester
- Some employers allow students to take a course or two alongside their Co-op. This is rare, however, can be very helpful in completing your degree

Fall	Spring	Summer
Math 150/151 Phys 140 Cmpt 130 SEE 100 SEE 101W SEE 110	Math 152 Math 232 Phys 141 Cmpt 135 Chem 121 SEE 111	Math 251 Math 260 SEE 221 SEE 230 SEE 241
Co-op	Co-op	Bus 238 B-Hum Elective Extra Courses
Co-op	SEE 222 SEE 224 SEE 225 SEE 231 SEE 242 SEE 251	SEE 310 SEE 324 SEE 331 SEE 341 SEE 351
REM 321 SEE 325 or 333 SEE 410W SEE Technical Elective I SEE Technical Elective II	Geog 324 or 362W SEE 402 SEE 411 SEE Technical Elective III	SEE 300 SEE 332 SEE 342 SEE 352 SEE 354

Alternative Schedule #3: Five Year Degree

Most people, myself included, will take around five years to graduate from SEE. It's a work-intensive program and some of us want lives outside of school. Here is my rendition of a five-year schedule, slightly modelled after the five-year MSE schedule. Make sure to talk to an advisor if you do plan to complete the degree over five years.

Some things to keep in mind:

- Again, non-SEE courses should be the easiest ones to move around, but check to see when they are offered (just in case)
- **I am not sure if you will be able to take SEE Technical Elective II in your last semester. In the original schedule it is during the fall of the last year. It should be takeable seeing that it's an elective of all things, but check to make sure

Fall	Spring	Summer
Math 150/151 Phys 140 SEE 100 SEE 110	Math 152 Math 232 Phys 141 Chem 121 SEE 111	
Math 251 Math 260 Bus 238 Cmpt 130 SEE 101W	Cmpt 135 SEE 222 SEE 224 SEE 225 SEE 242	SEE 221 SEE 230 SEE 241 SEE 324
Co-op	B-Hum Elective SEE 231 SEE 251 Geog 324 or 362W	SEE 300 SEE 310 SEE 331 SEE 341
Co-op	Co-op	SEE 332 SEE 342 SEE 351 SEE 352
REM 321 SEE 325 or 333 SEE 410W SEE Technical Elective I	SEE 402 SEE 411 SEE Technical Elective II** SEE Technical Elective III	

Alternative Schedule #4: Degree With Certificate or Minor

If you decide to do a certificate or a minor in addition to your SEE degree then super cool. Some of the shorter certificates and minors are around five courses. You might be thinking, ‘why would anyone want to bestow even more courses and stress upon themselves??’ I guess the

logic behind it is that it's cool to have a degree and a certificate, and also we're here for 4+ years, so what's one or two more semesters?

Some things to keep in mind:

- This schedule is based on a six-course certificate or minor. Please note that they can be longer or shorter than this
- The schedule assumes that certificate or minor courses are offered in these semesters, but they might not be. These extra courses can be moved around in this schedule, as long as you're ok with taking six courses at a time

Fall	Spring	Summer
Math 150/151 Phys 140 Cmpt 130 SEE 100 SEE 101W SEE 110	Math 152 Math 232 Phys 141 Cmpt 135 Chem 121 SEE 111	Math 251 Math 260 SEE 221 SEE 230 SEE 241
Bus 238 B-Hum Elective REM 321 Certificate/Minor course Certificate/Minor course Certificate/Minor course	SEE 222 SEE 224 SEE 225 SEE 231 SEE 242 SEE 251	Co-op
Co-op	Co-op	SEE 310 SEE 324 SEE 331 SEE 341 SEE 300 **Could also do co-op here**
SEE 325 or 333 SEE 410W SEE Technical Elective I SEE Technical Elective II Certificate/Minor course	Geog 324 or 362W SEE 402 SEE 411 SEE Technical Elective III Certificate/Minor course	SEE 332 SEE 342 SEE 351 SEE 352 Certificate/Minor course

Alternative Schedule #5: Lighter Workload in Second Year I

This variation of the base schedule is to move SEE 222 out of the second year spring schedule. SEE 222 is a prerequisite for SEE 460 and 325 (both of which are optional/electives), and SEE 352 and 354 (these are mandatory). So, theoretically, SEE 222 could be moved to the spring semester of fourth year, and both 352 and 354 would be taken in the summer semester of that same year. However, I have heard that some prerequisites for some of the later courses may change so make sure to ask an advisor about this. This alternative schedule is very similar to the base schedule except for the last year.

Some things to keep in mind:

- Some pre-reqs for fourth year courses might change so it would be smart to check in with advisors in case there are any updates later on

Fall	Spring	Summer
Math 150/151 Phys 140 Cmpt 130 SEE 100 SEE 101W SEE 110	Math 152 Math 232 Phys 141 Cmpt 135 Chem 121 SEE 111	Math 251 Math 260 SEE 221 SEE 230 SEE 241
Co-op	SEE 224 SEE 225 SEE 231 SEE 242 SEE 251	Bus 238 SEE 310 SEE 324 SEE 331 SEE 341
Co-op	Co-op	SEE 300 SEE 332 SEE 342 SEE 351
REM 321 SEE 325 or 333 SEE 410W SEE Technical Elective I SEE Technical Elective II	SEE 222 Geog 324 or 362W SEE 402 SEE 411 SEE Technical Elective III	SEE 352 SEE 354 B-Hum Elective Extra Course

Alternative Schedule #6: Lighter Workload in Second Year II

This is a schedule for those who have completed all of first year and need a bit of a break. Of course, it's not a true break, you still have to take classes. However, with this schedule you hopefully won't have to take more than five classes in a semester after first year. I'll be honest, it's tricky to maneuver the course schedule for spring of second year because all the classes are pre-reqs for later classes. From what I understand, the two that are easiest to move are SEE 222 and SEE 242. Unfortunately, the others are pretty much stagnant. I recommend asking an advisor about these courses if you do plan to drop them.

Some things to keep in mind:

- Your second Co-op semester would be earlier and so there would be some skills that you would miss from the summer courses for that semester
- Some of the non-SEE courses can be moved around, especially in the spring semesters

Fall	Spring	Summer
Math 150/151 Phys 140 Cmpt 130 SEE 100 SEE 101W SEE 110	Math 152 Math 232 Phys 141 Cmpt 135 Chem 121 SEE 111	Math 251 Math 260 SEE 221 SEE 230 SEE 241
Co-op	SEE 224 SEE 225 SEE 231 SEE 251	Co-op
Co-op	SEE 242 SEE 222 B-Hum Elective BUS 238	SEE 310 SEE 324 SEE 331 SEE 341 SEE 351
REM 321 SEE 325 or 333 SEE 410W SEE Technical Elective I SEE Technical Elective II	Geog 324 or 362W SEE 402 SEE 411 SEE Technical Elective III	SEE 300 SEE 332 SEE 342 SEE 352 SEE 354

Alternative Schedule #7: Lighter Workload After First Semester

This schedule is for people who took six courses during their first semester in SEE and found it to be too much. This schedule is quite desirable, especially considering it only takes one extra semester to graduate.

Some things to keep in mind:

- Chem 121 is offered every semester and so can be moved around
- Chem 121 is a four unit course and incorporates a lab which can be found to be hard so choose wisely when to take it
- SEE 222 has Chem 121 as a prereq
- SEE 111 is not currently a pre-req for any courses (however, it might become a pre-req for SEE 310 so beware) and may be moved around a bit in the schedule

Fall	Spring	Summer
Math 150/151 Phys 140 Cmpt 130 SEE 100 SEE 101W SEE 110	Math 152 Math 232 Phys 141 Cmpt 135 SEE 111	Math 251 Math 260 SEE 221 SEE 230 Chem 121
Co-op	SEE 224 SEE 225 SEE 231 SEE 242 SEE 251	Bus 238 SEE 310 SEE 324 SEE 331 SEE 341
Co-op	Co-op	SEE 300 SEE 332 SEE 342 SEE 351
REM 321 SEE 325 or 333 SEE 410W SEE Technical Elective I SEE Technical Elective II	SEE 222 Geog 324 or 362W SEE 402 SEE 411 SEE Technical Elective III	SEE 241 SEE 352 SEE 354 B-Hum Elective

Alternative Courses

I didn't add equivalent courses into any of the alternative semesters; however, there are courses that you can take instead of the SEE courses in the schedule. This section is really only important if you are a transfer student stuck between years like myself, or maybe you failed a course (it's okay if you do) and don't want to wait a year to take it again. Or maybe you just want something outside of the SEE program- whatever the reason, this section is for that.

Keep in mind that some of these courses (other program courses) have seats designated to their respective students, and so you'd automatically be placed on the waitlist. Also, because none of these courses are on the official SEE schedule, you'd have to fill out an appeal form (link in Appendix) and receive approval from SEE and the faculty of the alternative course. Make sure to talk to an advisor if you plan to do this; they can show you all the steps you need to take.

Here is a list of potential alternative courses (primarily) in first year that you may take. It is obviously not exclusive, but I think that I've gathered most of the main, 'easiest' alternatives that I've seen people take before:

Cmpt 130 → Cmpt 120

Cmpt 135 → Cmpt 125 + 127

If you take Cmpt 120, 125, and 127 you can get credit for both 130 and 135. The difference? While Cmpt 130/135 use the C++ coding language, Cmpt 120/125 use Python. Cmpt 127 is an introductory course to C++ and goes over the basics. You're not at a huge loss if you take the alternative courses over the recommended ones, the industry uses both languages and you're likely to learn both at some point in your career anyway.

**Please note that Cmpt 127 is being phased out and its last offering will be summer 2021. The course will then be integrated into Cmpt 125 so that the equivalent to Cmpt 130/135 is Cmpt 120/125 and will be the same number of units. **

Phys 140 → Phys 120 + 132

Phys 141 → Phys 121 + 133

2020 first year students have already taken the Phys 140 alternative, 120 + 132. In these courses you learn exactly the same material. The only difference is that the lab portion of 140 and 141 is integrated with the lectures while you have to take separate labs and lectures for the alternatives. Also 140/141 are offered at the Surrey campus whereas 120/121 + 132/133 are offered at the Burnaby campus (guess this is only relevant when there isn't a pandemic). When I

did first year physics I took Phys 140 and then switched over to 121 + 133 because those courses worked better with my schedule. I found that 140 was easier to sit in and do hands-on lab work; however, I often found that I didn't do much work during the lab time portion of the class. I really liked the structuring of 121 + 133, but felt that the four-hour lab was a lot. This of course is my opinion, ask other people before deciding which courses to take. Also note that while Phys 140/141 are six lecture/lab hours a week (three one-hour lectures, two one-hour labs, one one-hour tutorial), Phys 120/121 + 132/133 are eight hours a week (three one-hour lectures, one one-hour tutorial, one four-hour lab).

VERY IMPORTANT: If you do end up taking Phys 120 and 121 (by choice), make sure to take the labs too to get full credit for the appeal. Phys 140 and 141 are four units each because they include the lab, so take 120 + 132 and 121 + 133. Together, those sets of courses are also four units each.

SEE 100: MSE 100, IAT 106

SEE 101W: Cmpt 105W, ENSC 105W, MSE 101W

There are a handful of MSE/ENSC course equivalents. As I said above SEE courses are only offered once a year, and so it's very helpful to recognize what other options you may have throughout the year. As courses in MSE and ENSC are prioritized for their own students you would automatically be put on waitlists right away.

I'm not making a list of alternatives to SEE courses because there are too many. If you are interested in taking some, you'll have to speak with an advisor as well as visit the SFU course website and check the equivalents in the SEE section. The link to this can be found below in the Appendix. However, it's also best to take SEE courses over equivalent courses in other programs because although you can get the same credit, you may not be learning the exact same material. We're all in the SEE program for a reason, and it doesn't make sense to take equivalent outside courses unless we have to.

Which Courses You Can Drop

As we already know, the current SEE curriculum schedule is pretty condensed and not everyone particularly wants to take five or six courses every semester. This section is kind of a follow-up to the alternative course schedules and provides more details about the courses that are easiest to drop in early years and take later on in the degree. Here is a list of some courses that you have more flexibility with and that you can more easily drop if you don't mind taking longer than four years to graduate. Make sure to speak with an advisor about dropping courses too

because they know a lot on this subject matter. Please note that this list primarily consists of lower level courses; however, will (hopefully) be updated as more people start taking upper year courses.

First Year

Cmpt 130 + 135:

Neither one of these courses is an important prerequisite for SEE courses (I believe that there is currently one course that needs Cmpt 130, and it's an elective too). However, you can gain very useful skills from both 130 and 135 which can help immensely with getting a Co-op. If you decide not to take Cmpt 130 and 135 in first year then the ideal time (schedule-wise) to take them is in the fall and spring semesters of fourth/ last year.

Chem 121 (Chem 120 + 125):

Chem 121 is one of those extra courses that people often forget about. Again, it's not a prerequisite for many SEE courses- only SEE 222 which I will talk about below. Chem 121 is not a SEE-specific course and is offered multiple times a year, so you have more flexibility with when you want to take it.

SEE 241:

SEE 241 is kind of an odd duck because it isn't a prerequisite for anything. Theoretically, you could take this course in your very last semester before graduating and be fine. However, like the computing courses the skills that you gain from this class are very helpful for resumes and potentially Co-ops. It's also nice to have for courses such as SEE 242, which doesn't have it as a pre-req but goes over some stats material. As of now, the only time to take SEE 241 is in the summer; however, there are one or two equivalent stats courses that you could take during other semesters of the year.

Second Year

SEE 222:

I talked about this course in one of the alternative schedules, and yeah, if you want to drop a course in spring of the second year then I'd say this is the one. It is a prerequisite for the least amount of follow-up courses as compared to the rest of the spring schedule and also has an MSE equivalent which is typically offered in the fall. Remember, it's still better to take the SEE courses, but it is nice to know that you have a few options for choosing when to take a course- at least for the lower division courses.

Bus 238:

Bus 238 is kind of an extra course that you take. Obviously, it's very different from your regular engineering courses and often has students from multiple disciplines, which is pretty cool. You have to take it at some point, but it doesn't matter when. It's not a prerequisite for any courses and its only prereq is to have 12 units. It is also offered every semester. The only thing to watch out for with this course is the amount of available seats it has, and they can fill up quickly.

Third Year

SEE 300:

This course is similar to Bus 238 as it focuses on the business side of engineering. Also, like Bus 238, it is not a prerequisite for anything and only asks for 75 units to take. It is only offered in the summer, but there are some MSE and ENSC course equivalents offered during other times of the year.

Fourth Year

This year seems to be the most flexible out of all the years because most of the courses that you take are electives. Since it's also the "last year" before graduation the courses aren't prerequisites for other courses in the bachelor's degree. I'm not going to name any specific courses that you could drop; however, there is a handful of electives (SEE, MSE, ENSC) that you can take throughout the year.

Breadth-Humanities Elective

This elective is recommended to be taken in the fourth year of the SEE degree; however, many people have/are taking it earlier. There is a long list of possible courses that you can take, many of which are in the Faculty of Arts and Social Sciences. Because the list is quite extensive you have the choice of taking an easy or difficult course (although I don't really see why anyone would want to take a difficult course...). You can find this list in the Appendix.

Certificates and Minors

For many of us, the SEE degree will take a while to do. Some people see this as an opportunity to do more than just get the degree such as doing minors or certificates. They are nice ways to take some extra courses and get credit for them. Some also don't require you to take a vast amount of additional courses. The number of courses you take for a certificate or minor

varies, but there are some that only ask for five or six courses, so essentially one additional semester (and maybe not even if you don't plan to graduate within four years). They also cover some interesting topics like other languages or Sustainable Development. Some of my peers and I are very interested in doing the Sustainable Development certificate, which only asks for four additional courses (the fifth elective counts as the geography elective that we have to take in SEE). Another certificate that people are looking into is Innovation and Entrepreneurship. Doing a math minor is also an option as in this degree we are required to take a number of math courses. A list of links to find certificates and minors within different faculties at SFU can be found below in the Appendix.

Extras

CourseDiggers and RateMyProf

These are two very helpful websites when planning which courses to take each semester. Although they are specifically helpful for SEE courses (there aren't any reviews yet), you can use them for other courses that you take (Math, Cmpt, Phys etc.). Like I've said before, these courses are typically offered multiple times a year and so you have more flexibility in deciding when to take them. If you know that a course is going to be hard then maybe take it during a lighter-course load semester. If you hear that a prof has bad reviews then maybe see if you can take the course another time.

One thing to take note of is that the reviews on both websites are obviously relative. I have taken multiple courses that were supposed to be super hard, but were actually quite easy. Same goes for profs: Some of the profs that I've loved had horrible reviews. My suggestion, if you're tentative about a course or a prof is to go to the first week of classes to get an idea of what they'll be like, and, if necessary, then drop. Both these websites can be found in the Appendix.

READ ME! Folder

Similar to the CourseDiggers and RateMyProf websites, the SEE Drive contains a folder named 'READ ME!'. The folder contains documents on many of the courses that we need to take in the SEE program with info such as tips, material resources, and SEE student reviews. Each document was beautifully put together by Hannah Chan (SEE student) and continues to be updated with student course reviews every semester.

Other SEE Drive Resources

If you go to SEE Drive → SEESS Information → Resources you can find various helpful documents. In addition to this Tips and Tricks documents, the folder includes a full list of all the courses that SEE students must take, course survey results, the SEESS executive team contact info, etc. All of these can be very helpful when planning your degree so make sure to check them out! If there is anything that you would like to add to the folder then please contact the VP Academic.

Conclusion

So, that's kind of it for what I can try to offer as a somewhat resource. This is a document that I would like to have updated every few semesters or so, so that it can remain a helpful tool for SEE students throughout their degrees. I've iterated this many times already, but this document is in no way a replacement for advising, it is simply a resource to help you prepare before meeting with advisors to discuss your future plans. While reading this doc you've probably realized how passionate I am about the flow of the SEE schedule, and so, if you have any questions or suggestions for future updates please contact me at techang@sfu.ca. I would love to hear any of your input. Thanks for reading and I hope that you now feel a little less stressed about course planning!

Appendix

Forms

Forms concerning the SEE program including appeals can be found at the bottom of this page: <https://www.sfu.ca/see/current-students/undergraduate-students.html>

All SEE Program Courses

This website is particular to the spring 2021 semester; however, the course descriptions and equivalents should be the same as in any semester. <https://www.sfu.ca/students/calendar/2021/spring/courses.html>

Certificates and Minors

Each faculty has a variety of certificates that students can complete. Here are some of the websites for each.

Beedie School of Business

<https://beedie.sfu.ca/programs/undergraduate/business-certificates>

Faculty of Arts and Social Sciences

<https://www.sfu.ca/fass/students/current-students/undergraduate-students/plan-your-program/certificates.html>

Faculty of Environment

<http://www.sfu.ca/fenv/programs/undergraduate/certificates.html>

Faculty of Education

<https://www.sfu.ca/education/gs/degreediploma.html>

Nuclear Science Minor (Faculty of Science)

<http://www.sfu.ca/students/calendar/2021/summer/programs/nuclear-science/minor.html>

Course and Prof Reviews

Course Diggers

<https://coursediggers.com/>

Rate My Professors

<https://www.ratemyprofessors.com/>

Breadth-Humanities Course List

This page also includes other breadth courses

https://www.sfu.ca/ugcr/for_faculty/certified_wqb_courses/certified_designated_breadth_courses.html

References

Flexible Undergraduate Curriculum—Mechatronic Systems Engineering—Simon Fraser University. (n.d.). Retrieved October 24, 2020, from <https://www.sfu.ca/mechatronics/current-students/undergraduate-students/undergraduate-program-requirements/flex-ugrad-curriculum.html>

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