



ST. THOMAS MORE COLLEGIATE
HOME OF THE KNIGHTS SINCE 1960

2023-2024 Course Programming Guide

For Senior Students and their Parents

INTRODUCTION

This Course Selection Handbook is intended for our senior students and their parents. When choosing courses, there are four factors which must be considered and are included in this handbook. They are as follows:

1. The **requirements for graduation** as outlined by the Ministry of Education.
2. STMC's **own graduation requirements** and course offerings
3. The **admission requirements** for some local schools such as SFU and UBC.
4. The realities of the **student's academic strengths and abilities**. (i.e., their report card)

IT IS IMPORTANT FOR STUDENTS TO REALIZE THAT THIS **HANDBOOK IS ONLY A GUIDE. STUDENTS NEED TO DO THEIR OWN PLANNING FOR POST-SECONDARY PROGRAMS.**

COURSE SELECTION: THE PROCESS AT STMC

There are many supports in place to aid students and parents in the Course selection process at STMC. However, it is the student's responsibility to do their own research for their specific post-secondary plans. No single book, resource or counsellor can cover all the possible options.

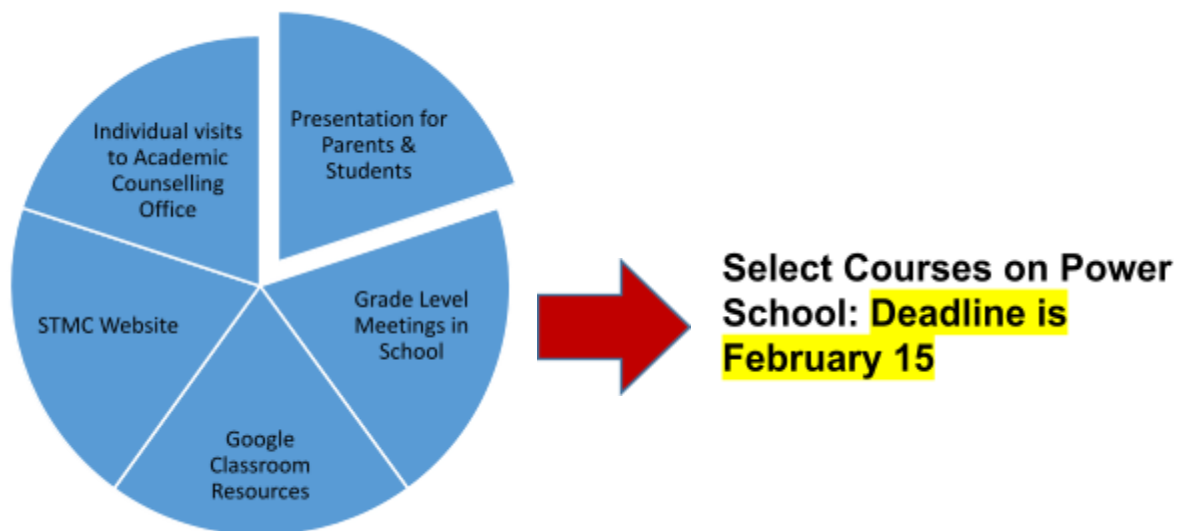


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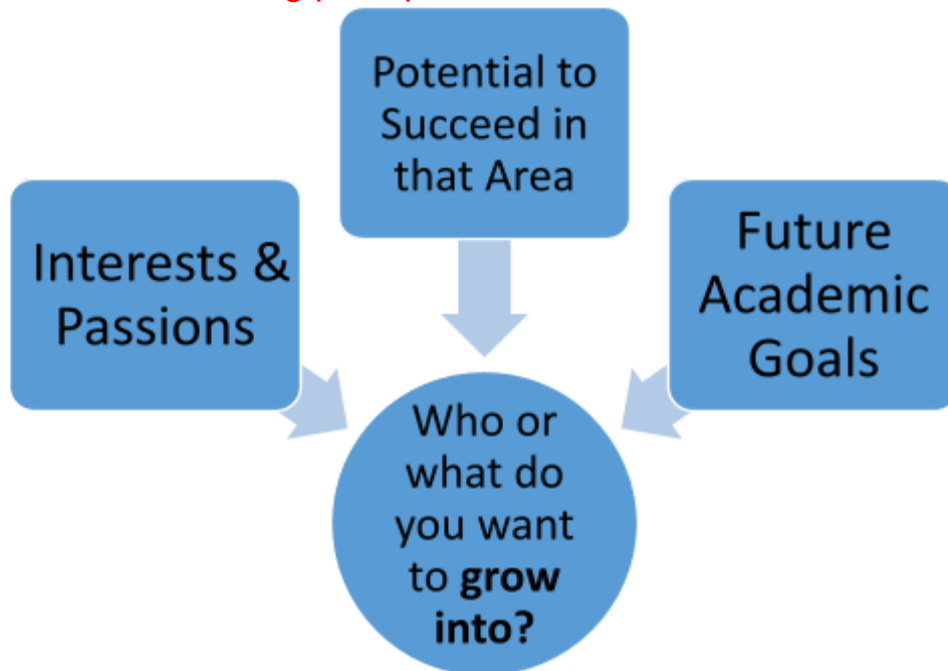
CONTACT INFORMATION for the Academic Counsellors

Counsellor	E-mail	Phone
Mr. Spanjers	john.spanjers@stmc.bc.ca	604-521-1801 Ext 2115
Mr. Bouwman	hank.bouwman@stmc.bc.ca	604-521-1801 Ext 2119
Mrs. DeWith	Yvonne.dewith@stmc.bc.ca	604-521-1801 Ext 2129

Detailed descriptions of all courses offered can also be found on the
STMC Website under Programs/Academics/Departments.

<https://stthomasmorecollegiate.ca/programs/academics/>

Guiding principles in course selection



Where to begin????

1. Most students are not sure about what they want to do in the future. The path a student takes to their final educational and career destination is seldom a straight one. Don't focus on the **end goal**; instead, **focus on the little steps along the way**.

2. **Course** selection is a matter of keeping **realistic** options open. One of the best indicators of academic strengths and weaknesses is the student's **Report Card**. A good work ethic can overcome a lot of academic deficiencies, but students must remember that academic demands increase dramatically as they progress through the grades and into university or college. If in doubt, students should **consult their teachers** as they know the student's strengths and weaknesses and know the expectations at the post-secondary level.

Many courses have **prerequisites**. As the courses are designed as a continuum of skills that build on the foundations of the previous course, students may not be able to select a course without the required prerequisites. This is especially significant in the Arts and Applied Skills Courses. For example, a grade 12 student who has not previously taken Choir should select Choir 11 first.

3. Where do their passions lie? Arts or Sciences! Students *should not* choose a heavy load in the sciences because **THEY** think that is where the jobs are. That is a myth that simply is not true. There are just as many jobs available in the Arts. Students should choose courses based on their strengths and passions. If a student can determine whether or not they favor Arts or Sciences, course selection becomes a little easier.

4. Factors to keep in mind during the course selection process. FINDING THE RIGHT FIT

a. Graduation: We require our students to do more than the minimum required for graduation; therefore, **virtually all our students graduate**. This means full course loads in grades 10, 11 and 12. *(Grade 12 students may apply for a study block.)*

b) Planning to attend a local College? Most STMC graduates can virtually guarantee themselves entry into a university transfer program at a local college. The more specific the program is at the college level, the more they must make sure they hit the high school prerequisites.

The **college route** is a preferred route for many students. Entry requirements are less stringent, classes are smaller and institutions are often closer and cheaper. Credits are fully transferable if the student selects courses wisely. In addition, many BC Colleges offer full degree programs and several have taken on a university designation. (I.e., Kwantlen Polytechnic University, Capilano University and University of the Fraser Valley)

c) Planning to attend a Technical School? Schools like BCIT or Kwantlen Polytechnic have their own specific requirements. Students interested in the trades will be well prepared with their STMC education. Students must do their research.

d) Planning to attend a BC University? A snapshot view of the requirements for UBC and SFU is included in this handbook.

e) Planning to attend Canadian Universities (Outside of BC)? The admission requirements for universities across Canada are too varied to list in any one handbook. For a brief summary of many Canadian institutions, go to the post-Secondary link in Google Classroom and look for the Canadian University Resource. To be honest, if you meet the requirements for UBC or SFU, there is an exceptionally good chance you can get into many schools across the country.

<https://cuebc.org/for-students/>

f) Planning to attend an American University or an International School? Students must be proactive here as each school is different. In addition to courses, students will be expected to take a Scholastic Aptitude Test (SAT) or ACT test. For info see your Academic Counsellors or visit the [College Board](#) link. Students should be aware of the excessive cost associated with going to school in the US.

ALL GRADE 12'S WILL BE ADVISED TO HAVE MORE THAN ONE POST-SECONDARY OPTION AVAILABLE TO THEM AT THE END OF THEIR SENIOR YEAR.
THE PROVINCE HAS SO MANY WONDERFUL OPTIONS FOR OUR STUDENTS TO INVESTIGATE!

IT IS ALL ABOUT FINDING THE RIGHT FIT.

Graduation Program Requirements for the BC Ministry and STMC

To graduate from the province of BC, every student in the Graduation Program has to pass certain required courses in their grade 10, 11 and 12 years. Students must also successfully complete Religion 10, 11 and 12 to graduate from STMC.

SUBJECT AREA	Credits
REQUIRED CREDITS	
Career Life Education 10	4
Career Life Connections A & B	4
Literary Studies 10 & Composition 10 (English 10)	4
English First Peoples Literary Studies and Writing 11 (English 11) <i>this course meeting the Indigenous Focused Coursework requirement</i>	4
English Studies 12	4
a Mathematics 10	4
a Mathematics 11	4
an Arts Education and/or Applied Design, Skills, & Technology 10, 11 or 12	4
Social Studies 10	4
a Social Studies 11 or 12 (See below)	4
Science 10	4
a Science 11 or 12 (See Below)	4
Physical & Health Education 10	4
Total Required Course Credits	52 credits
ELECTIVE CREDITS	
Students must earn at least 28 elective credits from Grade 10-12 courses.	
THESE REQUIRED STMC COURSES ALL COUNT as ELECTIVES	
Religion 10	4
Religion 11	4
Religion 12	4
ADDITIONAL ELECTIVES At least one of these additional electives must be a grade 12 course.	16
Total Required Elective Credits	28 credits
OVERALL TOTAL:	80 credits

Students on the current Graduation Program must also successfully complete three **Graduation Assessments** written in grade 10 and 12.

- Numeracy Assessment 10** (*Assessing* the ability, willingness, and perseverance to interpret and apply mathematical understanding to solve problems in situations, and to analyze these solutions)
- Literacy Assessment 10 and 12** (*Analyzing* and Making *Meaning* from Texts, Communication and Understanding of Texts/Making Personal Connections)

Career Education Grad Requirements: At STMC the requirements for these credits will be met through work/assignments done in CLE/CLC blocks and Academic Assemblies.

Socials 11/12 Credit: Students going into grade 11 need to complete one Social Studies course in either grade 11 or 12 to graduate. The courses listed below will meet that requirement.

- 20th Century World History 12 (WH 12)
- Physical Geography 12 (PGEO 12)
- Law Studies 12 (LST 12)
- Social Justice (SJ 12)/Genocide Studies 12 (GENO 12) (Accelerated)
- Economics 12 (EC 12)/Economic Theory 12 (ECT 12) (Accelerated)

Science 11/12 Credit: The STMC courses listed below meet this requirement.

- Physics 11 (PH 11) or 12 (PH 12)
- Chemistry 11 (CH 11) or 12 (CH 12)
- Life Science 11 (LFSC 11)
- Specialized Science 12 (SPSC 12)
- Anatomy & Physiology 12 (ATPH 12)

Additional External Learning Credits: Students can earn further credits for activities undertaken outside of STMC. For example, students who are involved at a remarkably high level in athletics or the arts or have completed certain courses outside of school may also qualify.

Some examples include, but are not limited to:

Athletic Credits:

- BC Summer or Winter Games (gr. 10 credit)
- Provincial or National Teams
- Coach Credit (such as Run, Jump, Throw Certification)
- Officiating (such as Small Sided Referee in Soccer)
- Bronze Cross Lifesaving Course

Music Credits:

- BC Conservatory of Music

Military Credits:

- Canadian Pacific Region Cadets

Other Credits:

- Driver Education Course (registered through BC, such as ICBC Course)

Course Selection Sheet Grade 10 - 2023/2024

Directions:

1. This is a worksheet only.
 2. Please consult the [Course Selection](#) information posted on the website, including the Sr. Course Programming guide.
 3. Please visit the [STMC Grades 8-12 Academics](#) pages to see full course descriptions.
 4. Course selection should be entered online using PowerSchool. Parents and students should work together to select courses. Selections are considered to have parent approval.
 5. Please see Mr. Bouwman or Mr. Spanjers if you have any course selection questions. See Mr. Olson if you are experiencing difficulties registering for courses using PowerSchool.
 6. The **deadline** for course selections to be entered into PowerSchool is **February 15, 2023**.
 7. Check the boxes of the courses you wish to take after consulting with your Academic Counselor, your classroom teachers and your parents.
 8. **Note:** Students are admitted into enriched and/or accelerated mathematics courses through the Head of Department (HOD) as part of a formal review process. Teacher approval will be given after course selection is complete. Final placement in these courses will be subject to Grade Level Administrator & STMC HOD approval.
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A. Pre-Selected Courses

- ✓ *Career Life Education 10 (offered via an integrated delivery model)*
- ✓ Composition 10 and Literary Studies 10 (two 2 credit courses that create English Language Arts 10)
- ✓ *Core French 10
- ✓ Religion 10
- ✓ Physical & Health Education 10
- ✓ Science 10
- ✓ Social Studies 10

[*Students with an IEP that require a Learning Strategies block are Language exempted]

B. Select 1 of the following Mathematics Options:

- ☐ Workplace Mathematics 10
- ☐ Foundations of Mathematics & Pre-Calculus 10
- ☐ Foundations of Math & Pre-Calculus Enriched 10 (Prerequisite: Mathematics Enriched 9 or HOD approval)
- ☐ Pre-Calculus 11 (Prerequisite: Foundations of Math and Pre-Calculus 10)
- ☐ Pre-Calculus Enriched 11 (Prerequisite: Foundations of Math and Pre-Calculus Enriched 10 or HOD approval)

Students who are not currently taking an enriched Mathematics course but are interested in enrolling in the enriched pathway should speak with Ms. Erica Cameron, the Head of Department for Mathematics. erica.cameron@stmc.bc.ca

C. Select any 1 of the following ADST or Arts Education on timetable offerings:

- | | |
|---|---|
| <input type="checkbox"/> Art Studio 10 | <input type="checkbox"/> Graphic Production 11 (prev. Yearbook) |
| <input type="checkbox"/> Concert Choir 10** | <input type="checkbox"/> Technology Explorations 10 |
| <input type="checkbox"/> Concert Band 10** | <input type="checkbox"/> Drafting 10 |
| <input type="checkbox"/> Drama 10 | <input type="checkbox"/> Human Kinetics 11 |
| <input type="checkbox"/> Media Arts 11 | <input type="checkbox"/> Intro Strength & Conditioning 11 |

** students who have not previously taken Concert Choir or Concert Band at STMC must speak with the choir or band director before enrolling.

D. Outside of Timetable Electives – these courses run before or after school.

- ☐ Intro Strength & Conditioning 11 AM

Arts Education: Admission to the following courses is by audition only. Students must be enrolled in on-timetable Concert Choir or Concert Band to be able to take these courses. Please contact the Choir Director, Mr. Lui, or the Band Director, Ms. MacLellan, for more information about auditions.

- ☐ Chamber Choir 10
☐ Vocal Jazz 10
☐ Jazz Band 10

OVERVIEW:

All students enrolled in:	<input type="checkbox"/> Career Life Education 10 <input type="checkbox"/> Composition 10 <input type="checkbox"/> Literary Studies 10 <input type="checkbox"/> Physical & Health Education 10 <input type="checkbox"/> Religion 10 <input type="checkbox"/> Science 10 <input type="checkbox"/> Social Studies 10	
Mathematics (choose 1):	<input type="checkbox"/> Foundations of Math & Pre-calculus 10 <input type="checkbox"/> Foundations of Math & Pre-calculus Enriched 10 <input type="checkbox"/> Workplace Mathematics 10	<i>If currently taking Foundations of Math & Pre-calculus 10 or Enriched 10:</i> <input type="checkbox"/> Pre-calculus 11 <input type="checkbox"/> Pre-calculus Enriched 11
Language or Learning Strategies (choose 1):	<input type="checkbox"/> Core French 10 <i>Or if currently in Learning Strategies 9</i> <input type="checkbox"/> Learning Strategies 10	<i>If currently taking Core French 10, or 11</i> <input type="checkbox"/> Core French 11 <input type="checkbox"/> Core French 12
ADST or Arts Education on timetable (choose 1):	<input type="checkbox"/> Art Studio 10 <input type="checkbox"/> Concert Choir 10 <input type="checkbox"/> Concert Band 10 <input type="checkbox"/> Drama 10 <input type="checkbox"/> Media Arts 11 <input type="checkbox"/> Graphic Production 11 <input type="checkbox"/> Technology Explorations 10 <input type="checkbox"/> Drafting 10 <input type="checkbox"/> Human Kinetics 11 <input type="checkbox"/> Intro Strength & Conditioning 11	
Off Timetable:	<input type="checkbox"/> Intro Strength & Conditioning 11 AM	<input type="checkbox"/> Chamber Choir 10 <i>*by audition</i> <input type="checkbox"/> Vocal Jazz 10 <i>*by audition</i> <input type="checkbox"/> Jazz Band 10 <i>*by audition</i>

REQUIRED COURSES:

As the chart on the previous page indicates grade 10's must take the following courses:

- ☐ Career Life Education 10
- ☐ Composition 10
- ☐ Literary Studies 10
- ☐ Physical & Health Education 10
- ☐ Religion 10
- ☐ Science 10
- ☐ Social Studies 10
- ☐ a Mathematics 10 (see below)
- ☐ Core French 10 (see below)

Career Life Education 10 (CLE): This 4-credit course is a graduation requirement. The course content will be covered within PHE, Religion and CLE classes. The goal of the course is to enable students to develop the skills they need to become self-directed individuals who display initiative, establish goals, make thoughtful decisions, and take responsibility for pursuing their goals in an ever-changing society.

Composition (CMPS 10) & Literary Studies 10 (LTST 10):

The BC Curriculum for English Language Arts 10 divides the year into five distinct modules:

- Literary Studies 10
- Composition 10
- Creative Writing 10
- Spoken Language 10
- New Media 10

To properly prepare students for eventual success at the post-secondary level, English Language Arts 10 draws on all five modules for its content and learning outcomes. The English course at the Grade 10 level builds upon skills learned in English 9 while exposing students to more challenging literature. Skills will be developed through the study of novels, short fiction, poetry, Shakespearean drama and non-fiction prose. In addition to the required reading they'll do for class, students will also read three independent novels—one novel per term. Students will choose these titles themselves to encourage reading as an enjoyable activity, as well as working on reading fluency and comprehension. The skills taught throughout the year will include analysis, reading comprehension, inquiry research, with strong emphasis on writing. Students will be expected to read and write on a regular basis, both at home and in class, to develop a strong vocabulary and a personal style of writing. Students' written work will strive to improve grammar, as well as paragraph and essay structure. Students will also critically examine societal issues surrounding modern communications media, Media Literacy and Digital Citizenship.

In the second half of the year, students will write the Provincial Literacy Assessment, which is a graduation requirement in BC as mandated by the Ministry of Education. This is a cross-curricular assessment, and students' scores will **not** be blended with their school marks on their final transcript for the course. Students will receive a report regarding their performance on the Literacy Assessment directly from the Ministry of Education.

It's important to note that students are recommended for the Pathways English 10 section by their English 9 teachers, based on the needs that students have demonstrated, as observed in-class throughout the year in English 9. Students do not sign up separately for Pathways English 10.

Core French 10 (FR 10) *:

Core French 10 is designed to use the Ça Marche 3 program. It continues to build comprehension and communication skills in the four areas of language learning; listening, reading, speaking and writing. Students are encouraged to express themselves both orally and in the written form using present, past, future and conditional tenses. Students are introduced to Francophone culture through written text and film. They build towards the end of a unit project with a presentation using a variety of media.

***Some Grade 10 students may be able to take a higher-level course if prerequisites have been met.**

*The majority of students are encouraged to take this course. You can go into any **college** without this course; however, it should be noted that a **Second Language 11 is a basic entry requirement** for many universities in BC including SFU and UBC.

Learning Strategies 10:

This course is only open to students already enrolled in the program or by permission of the LRC.

This course has been designed to help meet the academic, social and emotional needs of students who need support to learn in the classroom. Students in this course may be working towards Individual Education Plan goals, or may demonstrate a need for a learning support program to reach their education goals. This course provides direct instruction in effective learning skills and strategies that are needed to become independent, successful learners and teaches students the skills to develop their executive functioning and self advocacy skills.

Students in this course benefit from a structured class to receive direct instruction and support to develop and retain learning and study skills and to help them reach their goals. Students work with a teacher who will monitor their progress and provide instruction and feedback on developing IEP goals, executive functioning, self advocacy and learning strategies taught in this course and help support the generalization of these skills across their other courses.

The Mathematics 10 Pathways: Students must choose one option

Workplace Mathematics 10 (WPM 10):

This course meets the Math 10 Graduation requirement and is intended for students heading to one of the local colleges, trade schools, or directly into the workforce. If your mark in Math 9 is at the emerging level and below, students should talk to their parents, teachers, and academic counselors to determine if this is their best option. This course may limit a student's options at the post-secondary level.

This pathway is designed to provide students with mathematical understandings and critical-thinking skills identified for entry into a trades program or for direct entry into the workforce. These skills will be developed through a continued focus on the curricular competencies that are the center of all mathematics courses including: reasoning and analyzing, understanding, and solving, communicating and representing, and connecting and reflecting. This course focuses on the big ideas of proportional comparisons including trigonometry and unit conversions, operations with formulas as applied to surface area and volume, graphical relations, and financial literacy. The prerequisite for this course is the successful completion of Mathematics 9. At the end of this course, students are prepared for Workplace Mathematics 11.

Foundations of Mathematics & Pre-calculus 10 (FMP 10):

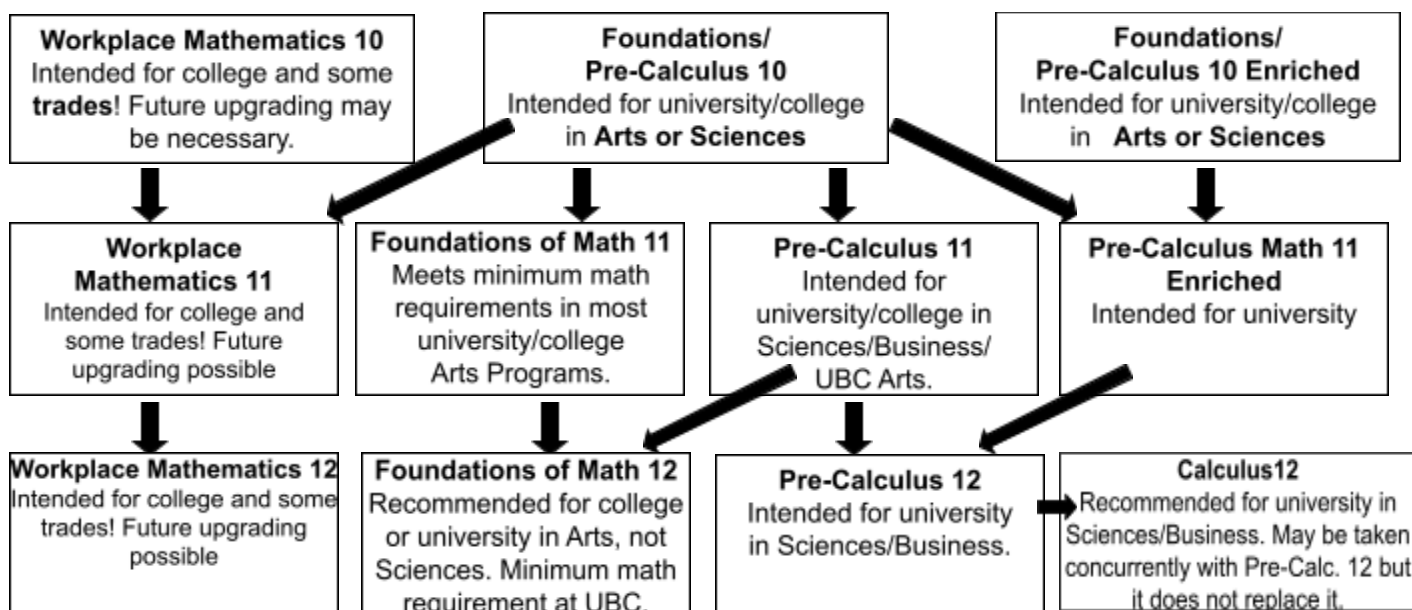
This course fulfills the Math 10 graduation requirement as well as post-secondary entrance requirements. If your mark in Math 9 is at the Emerging level and below, students should talk to their parents, teachers and academic counselors to determine if this is their best option.

Foundations of Mathematics and Pre-calculus 10 is designed to provide students with mathematical understandings and critical thinking skills identified for post-secondary studies in both the arts and the sciences. These skills will be developed through a continued focus on the curricular competencies that

are the center of all mathematics courses including: reasoning and analyzing, understanding and solving, communicating and representing, and connecting and reflecting. This course focuses on the big ideas of proportional comparisons in trigonometry, operations with algebraic expressions, linear relations, and financial literacy. The prerequisite for this course is the successful completion of Mathematics 9. At the end of this course students are prepared for Workplace Mathematics 11, Foundations of Mathematics 11, and/or Pre-calculus 11.

Foundations of Mathematics & Pre-calculus 10 Enriched (FMP 10):

This course fulfills the Math 10 graduation requirement. Typically, students in the Math 9 Enriched pathway will continue in Foundations/Pre-calculus 10 Enriched. High achieving Math 9 students may be invited by their teachers to consider the Math 10 Enriched course.



Physical and Health Education 10 (PHED 10):

There will be a variety of units throughout the school year that will allow students to work towards the learning standards and promote lifelong physical activity and healthy living.

The learning standards for Physical & Health Education 10 include:

- A focus on developing healthy habits in all areas of health that students will continue to practice after graduation
- The development of knowledge, skills, and mindsets to make informed decisions for lifelong participation in a range of physical activities and environments
- The development of knowledge, skills, and strategies for building respectful relationships, positive self-identity, and emotional health
- The development of the knowledge, skills, and strategies needed to make responsible and informed health and safety decisions

Religion 10 (YPHR 10):

The focus of this course is Moral theology, including the study of natural Law, conscience and its formation, Sin and Virtue. The course is designed to make the student think by discovery. The Sacrament of Reconciliation is covered, as are decision-making, critical thinking skills, specific moral issues, and sexual ethics. Morality comes from the Latin word *moralitatem* meaning ‘character’. The choices we make build our character and shape the people we become. If life is a trip, morality is our road map. This course explores Catholic teaching and questions societal values, providing students with an opportunity to shape and flex their moral compass.

Science 10 (SC 10):

Science 10 has four major units of study. In Biology, this course looks at genes as the foundation for the diversity of living things. In Chemistry, the fact that chemical processes require energy change as atoms are rearranged is the major focus. In Physics, energy conservation and transformations and how they can affect living things and the environment is the area of study. In Earth Science, the Big Bang Theory as an explanation of how the universe was formed is the primary focus.

Social Studies 10 (SS 10):

Socials 10 is an exciting course that looks at Canada's role during the 1900's starting with World War I and concludes with the Quebec separatist issues. Students will explore how Canada became not just a more independent country but also a world player in many significant ways. While the course focuses on Canada, students will also learn about many world events that changed the world such as the Cold War, the Cuban Missile Crisis, the impact of terrorism, and others. Students will also be introduced to the Canadian political system and the importance of democracy. The policies of federal and provincial political parties will be examined from a historical and modern perspective. Students will also see how the Canadian Charter of Rights and Freedoms has impacted our society. The last unit studied is Human Geography where students will look at demographics, the developed vs the developing world as well as Canada's contribution to helping the developing world.

ARTS EDUCATION and/or APPLIED DESIGN, SKILLS AND TECHNOLOGY:

In order to graduate from BC, students **must have four credits** in an Applied Skill or Fine Arts course in grade 10, 11 or 12. Students are welcome to select more than one.

Art Studio 10 (VAST 10)

In Art 10, students experiment with a wide range of processes, materials, and technologies, both individually and collaboratively to explore their identity and sense of belonging. They develop skills and techniques in a range of styles and movements, comment on social and environmental issues and explore traditions, perspectives, and worldviews through visual arts.

Choral Music: Concert Choir 10 (CMCC 10) (*On schedule*)

This yearlong course explores choral music from a wide variety of cultures, genres, and periods through study and performance. Emphasis will be placed on developing the complete musicianship of each student through instruction on basic vocal technique, sight-reading skills, and music theory. In addition to our Christmas and spring music nights, all choir students will have the opportunity to perform at music festivals, school masses and services, and are eligible to go on the STMC music trips.

Choral Music: Chamber Choir 10 (MUCH 10) (*Off schedule*)

This is an auditioned choir open to students in grades 9 to 12. Students must be registered in the concert choir program to be eligible for this course. Emphasis will be placed on performing challenging choral music from a wide variety of cultures, genres, and periods. In addition to our Christmas and spring music nights, the chamber singers will perform at various festivals throughout the lower mainland. Opening and remembrance mass, the STMC open house, the elementary recruitment tour, as well as a number of different performance engagements that come up throughout the course of the year. **Co-requisite: equivalent grade level Concert Choir**

Choral Music: Vocal Jazz 10 (MUJV 10) (*Off schedule*)

This is an auditioned choir open to students in grades 10 to 12. Students must be registered in the concert choir program to be eligible for this course. Emphasis will be placed on performing a wide variety of vocal jazz repertoire as well as study of history and jazz theory. In addition to our Christmas and Jazz music nights, the Jazz Singers also perform at various competitive festivals throughout the lower mainland and at occasional school functions. **Co-requisite: equivalent grade level Concert Choir**

Drafting 10 (TDRF 10) (previously called “Architectural Design”):

In this introductory Architectural Design course, students explore related career opportunities and develop employability skills in 2D and 3D design. Students are introduced to sketching, drawing and modelling techniques, tools, processes, and standards. They develop an understanding of the design process through research, and select, generate, and evaluate possible solutions through environmental, social, and cultural considerations.

Drama 10 (DRM 10):

Drama 10 is a one year course in which students begin to learn advanced acting techniques, and how to create a character on stage. Students also continue to develop their vocal and movement skills. The course includes:

- playwriting (one-act plays written and performed for elementary school students)
- scenework
- monologues
- attending and reviewing two plays presented in theatres in the lower mainland
- performing in a variety of theatre genres and styles
- exploring First Peoples worldviews, perspectives, and stories communicated through dramatic works
- performance opportunities in our school and community
- a stage unarmed combat workshop
- improvisations, theatre games and more

Human Kinetics 11 (YAH 11A):

This course is designed to teach students how to identify, assess and manage common and life-threatening athletic injuries. Students will learn about the basics of human anatomy, physiology, and biomechanics in order to apply concepts to athletic injuries and training practices. Further, students will be able to analyze a proactive management approach to ensure the prevention, management and general treatment of athletic injuries. Upon successful completion of the course, students will be certified in CPR level C First Aid and AED training and have a strong understanding of athletic taping techniques.

Instrumental Music: Concert Band 10 (IMCB 11) (On Schedule)

This on the timetable, a full year course is designed to further the musical development within a concert band setting for students in Grade 9 and 10. Students will be instructed in areas of music theory, listening, music history, and musical performance in various musical styles. Students will also have the opportunity to perform at our annual Christmas and spring music nights as well as various festival performances around the lower mainland. Ensembles will receive professional feedback through adjudications and clinics over the course of the year to aid in musical development. ***Students are required to rent their own instrument for this course. Students must either have completed Grade 8 band or have permission from the Band Director to be eligible to take this course. This course is a co-requisite for Jazz Band.***

Instrumental Music: Jazz Band 10 (IMJB 10) (Off Schedule)

This full year course meets regularly off the timetable. This auditioned group is open to students from Grades 8 to 12 who are selected based on their audition. Students will be instructed in advanced areas of jazz theory, listening, jazz history, composition, jazz improvisation, and performance in the jazz style. ***Students are required to provide their own instrument for this course. Students must either be enrolled in a concert band program or have the permission of the Band Director to be eligible to take this course. All students must audition to be eligible for this class. They will be placed in either Jazz Band A or B depending on their audition. Co-requisite: equivalent grade level Concert Band***

Introduction to Strength and Conditioning 11 (YHRA 11) *(this applied skills course was previously called “Fitness 11”)* (students must choose either ‘AM’ or during block rotation when selecting in PowerSchool) **Prerequisite for Advanced Strength and Conditioning 12**

An introductory approach to strength and conditioning, as well as nutrition. Students will experience a variety of training modalities to improve their general fitness levels. With exposure to a variety of equipment and types of training, students will discover how to move safely and effectively in a variety of realms of fitness.

Graphic Production 11 (GRPR 11) *(previously called “Yearbook”)*

Graphic Production 11 is a rigorous course requiring focus, self-motivation, teamwork, and the ability to work under pressure to meet hard and fast deadlines. The course is designed for students intending to pursue careers in journalism, business, graphic arts, or illustration. Essentially, the yearbook program is a business operating within the context of high school. Students are accountable not only to their instructor but to their peers within the class, and to the patrons of the business - namely the students of the school who purchase yearbooks. At the grade 11 level, students learn the basic skills necessary to create the yearbook. This includes computer software such as Adobe Photoshop and In Design, and the online software, Pixami. They learn, and develop their photography, journalistic, writing, layout and editing skills, as well as creative problem solving and business skills (teamwork, meeting deadlines, time management, showing initiative etc.) crucial in the yearbook environment. At the grade 11 level, students are not yet in leadership or editor roles but will often be partnered with Graphic Production 12 students to learn these skills for when they take Graphic Production 12.

Media Arts 11 (VAMT 11): Media Arts is an Applied Fine Arts class that will introduce the role graphic and digital design play in everyday life and business. The primary focus will be developing students’ skills using Adobe InDesign, Illustrator, Photoshop, and Premiere while also exploring the interplay between art, design, digital photography, and videography. This is not strictly a software class: Students will develop design solutions to projects that Media Arts designers commonly tackle. Students will strengthen their ability to invent, develop, communicate, and execute creative solutions within the restrictions of real-world scenarios.

While students will be introduced to the Adobe Creative Suite, this is not strictly a software class: Students will be tasked with employing what they learn in readings, lectures, demonstrations, online research, etc. into the professional execution of their projects.

*** Outside Timetable Projects, Responsibilities, and Opportunities**

Due to the time constraints of our daily class times, there will be some Media Arts “lab” assignments that will require students to attend a weekend session. These labs require students to learn how to set up equipment for different projects that include, but are not limited to photoshoots, video interviews, and event live streaming. Each of these labs will have a couple of opportunities to complete. As part of this class, attendance to these labs will be mandatory.

As a Media Arts is a content creation class, Media Arts 12 students are required to participate in coverage of special school events that fall outside the regular school timetable. Most of the opportunities come with some sort of reward/compensation for your time and ability (either service hours, trips and food, or money). This is a REQUIREMENT for Media Arts 12 students but also an opportunity that will be opened to interested Media Arts 11 students.

Tech Explorations 10 (TEXP 10): This course is offered as the single gateway to all higher-level courses in engineering, computer programming, and robotics. A unique experience centered on integrating mechanical systems and programming at an introductory level, this course builds on complementary elements of IT and materials engineering. While previous experience in IT and/or materials engineering is considered an asset, it is not required for overall success. Students who have completed the course will be able to identify the technology disciplines that are most suited towards their individual skill sets and interests, and make an informed decision about their pathway through STMC’s STEM roadmap.

Structured around a project-based learning model, students will develop projects that combine electronic, material design, manufacturing, and programming elements. They will work through the design process via the design cycle, and produce a physical outcome at the end of each unit.

Course Selection Sheet Grade 11 – 2023/2024

Directions:

1. This is a worksheet only.
2. Course selection should be entered online using PowerSchool. Parents and students should work together to select courses. Selections are considered to have parent approval. Any issues accessing the portal should be directed to Mr. Olson.
3. Because course selection at this level has broader post-secondary implications, students and parents are asked to consult with our Academic Counsellors, teachers or our Heads of Departments (HODs) should they have any questions.
4. The deadline for course selections to be entered into PowerSchool is **February 15, 2023**.
5. Students who are not currently taking an enriched mathematics course but are interested in enrolling in the enriched pathway should speak with the Head of Department. Ms. Cameron. Final placement in these courses will be subject to HOD approval.
6. Please consult the [Sr. Course Programming Guide](#) found on the website.
7. Many of our senior courses have prerequisites, please find details in the course descriptions in the Course Programming Guide or on the [Academics](#) pages of the website.
8. Courses with “*” are Outside of Timetable. Arts Education courses with a “*” are by audition. Please contact the Choir Director, Mr. Lui, or the Band Director, Ms. MacLellan, for information about auditions.

Course Considerations:

1. Most universities have a second language requirement at the grade 11 level. Please check requirements carefully for the programs you are interested in.
2. Students are expected to complete the grade 11 course before enrolling in the grade 12 course. For example, students will enroll in Media Arts 11 before enrolling in Media Arts 12, regardless of current grade level.
3. Grade 11 students are not permitted study blocks.
4. Human Kinetics 11, Leadership 12, Psychology 12, Intro Strength & Conditioning 11, Advanced Strength and Conditioning 12, Learning Strategies 11, and Learning Strategies 12, **will** be visible on your transcripts, **do** count towards graduation credits, and **provide breadth** to your education. However, **some** post-secondary institutions **may not** consider these courses for admissions purposes. Human Kinetics 11, Intro Strength & Conditioning 11, and Advanced Strength and Conditioning 12 meet the ADST graduation requirement.

A. Required Courses:

*All Grade 11's will be enrolled in **Career Life Connections A** as an off-timetable course on their schedule and will be taught through an integrated delivery model.*

1. **English First Peoples Literary Studies and Writing 11**
2. **Religion 11**
3. one **Sr. Social Studies Elective** _____
4. one **Sr. Mathematics Elective** _____
5. one **Sr. Science Elective** _____

Students will be completing requirements as per the new 2023 BC Graduation Plan. Students must complete at least 4 credits of Indigenous Focused Coursework. English First Peoples Literary Studies & Writing 11 will meet this requirement.

B. Other Courses: Select three additional courses

6. _____
7. _____
8. _____

STMC Graduation Requirements/Course Planning Guide for Grades 11-12

	Grade 11	Grade 12
Religion (required)	<input type="checkbox"/> Religion 11	<input type="checkbox"/> Religion 12
Career Ed. (required)	<input type="checkbox"/> Career Life Connections A (& Capstone)	<input type="checkbox"/> Career Life Connections B (& Exit Interview)
English (required)	<input type="checkbox"/> English First Peoples Literary Studies and Writing 11	<input type="checkbox"/> English Studies 12
Mathematics (<i>must take 1 at the grade 11 level</i>)	<input type="checkbox"/> Workplace Mathematics 11 <input type="checkbox"/> Foundations of Mathematics 11 <input type="checkbox"/> Pre-calculus 11 <input type="checkbox"/> Pre-calculus Enriched 11	<input type="checkbox"/> Foundations of Mathematics 12 <input type="checkbox"/> Pre-calculus 12 <input type="checkbox"/> Calculus 12 <input type="checkbox"/> Computer Science 12
Science (<i>must take at least 1 at the grade 11 or 12 level</i>)	<input type="checkbox"/> Life Sciences 11 <input type="checkbox"/> Chemistry 11 <input type="checkbox"/> Physics 11 <input type="checkbox"/> Specialized Science 12	<input type="checkbox"/> Anatomy & Physiology 12 <input type="checkbox"/> Chemistry 12 <input type="checkbox"/> Physics 12 <input type="checkbox"/> Specialized Science 12
Social Studies (<i>must take at least 1 in grade 11 or 12</i>)	<input type="checkbox"/> 20th Century World History 12 <input type="checkbox"/> Law Studies 12 <input type="checkbox"/> Physical Geography 12 <input type="checkbox"/> Social Justice/Genocide 12 <input type="checkbox"/> Economics/Economic Theory 12	<input type="checkbox"/> 20th Century World History 12 <input type="checkbox"/> Law Studies 12 <input type="checkbox"/> Physical Geography 12 <input type="checkbox"/> Social Justice/Genocide 12 <input type="checkbox"/> Economics/Economic Theory 12
Arts Education & ADST <i>(must choose at least 1 course in gr.10-12)</i> Students are expected to complete the grade 11 course before enrolling in the grade 12 course.	<input type="checkbox"/> Art Studio 11 <input type="checkbox"/> Drama 11 <input type="checkbox"/> Concert Band 11 <input type="checkbox"/> Jazz Band 11* (by audition) <input type="checkbox"/> Concert Choir 11 <input type="checkbox"/> Chamber Choir 11* (by audition) <input type="checkbox"/> Vocal Jazz 11* (by audition) <input type="checkbox"/> Engineering 11 <input type="checkbox"/> Computer Programming 11 <input type="checkbox"/> Robotics 11 <input type="checkbox"/> Human Kinetics 11 <input type="checkbox"/> Intro Strength & Conditioning 11 <input type="checkbox"/> Intro Strength & Conditioning 11 AM* <input type="checkbox"/> Media Arts 11 <input type="checkbox"/> Drafting 11 (Architectural Design) <input type="checkbox"/> Graphic Production 11 (Yearbook) <input type="checkbox"/> Composition & Production 11	<input type="checkbox"/> Art Studio 12 <input type="checkbox"/> Drama 12 <input type="checkbox"/> Concert Band 12 <input type="checkbox"/> Jazz Band 12* (by audition) <input type="checkbox"/> Concert Choir 12 <input type="checkbox"/> Chamber Choir 12* (by audition) <input type="checkbox"/> Vocal Jazz 12* (by audition) <input type="checkbox"/> Engineering 12 <input type="checkbox"/> Computer Programming 12 <input type="checkbox"/> Robotics 12 <input type="checkbox"/> Adv. Strength & Conditioning 12 <input type="checkbox"/> Adv. Strength & Conditioning 12 AM* <input type="checkbox"/> Media Arts 12 <input type="checkbox"/> Graphic Production 12 (Yearbook) <input type="checkbox"/> Composition & Production 12
Second Language (<i>G.11 level needed for most universities</i>)	<input type="checkbox"/> Core French 11	<input type="checkbox"/> Core French 12
Additional Courses	<input type="checkbox"/> Learning Strategies 11 (<i>if you are already in the program</i>)	<input type="checkbox"/> Psychology 12 <input type="checkbox"/> Leadership 12 <input type="checkbox"/> Learning Strategies 12 (<i>if you are already in the program</i>)

REQUIRED COURSES: In order to meet the graduation requirements of STMC and the Ministry of Education, all students must take the courses listed below at the grade 11 or 12 level.

- ☐ Career Life Connections A & B
- ☐ English First Peoples Literary Studies & Writing 11
- ☐ Religion 11
- ☐ a Science 11
- ☐ a Social Studies 12 * (see note)
- ☐ a Mathematics 11 (see below)
- ☐ an Arts Education/ADST course taken at the grade 10, 11 or 12 level

*Note: STMC only offers Social Studies courses at the grade 12 level. These **will meet** the Ministry Graduation Requirement of Social Studies 11 course.

Career Life Connections A (CLC):

CLC provides opportunities for students to plan for successful learning in the Graduation Program, explore a wide range of post-secondary education and career options, think critically about health issues and decisions, develop financial literacy skills related to pursuing their education and career goals, and begin planning the actions required to pursue post-secondary destinations and career paths. In addition, students will also focus on their independent Capstone Project at the grade 11 level. (2 credit course).

English First Peoples Literary Studies and Writing 11 (LTST 11):

The BC Curriculum for English Language Arts 11 divides the year into five distinct modules: Literary Studies 11, Composition 11, Creative Writing 11, Spoken Language 11, New Media 11

To continue to prepare students for eventual success in post-secondary education English Language Arts 11—much like English Language Arts 10—draws on all five modules for its content and learning outcomes. In English First Peoples Literary Studies and Writing 11 students will receive the necessary foundational instruction to prepare them for English Studies 12. The course builds skills in writing, the research process, analytical reading, and public speaking through responses to various genres of literature and an examination of societal issues surrounding modern communication technology, Media Literacy and Digital Citizenship. The major literary genres for study will be non-fiction essays, novels, short stories, and poetry that are all by Indigenous authors. Students will also read two independent novels. Students will choose these titles themselves to encourage reading as an enjoyable activity, as well as working on reading fluency and comprehension. Writing instruction will emphasize the persuasive, expository, narrative, and descriptive modes in paragraph and multi-paragraph (essay) compositions. Skill refinement will emphasize the use of grammar, punctuation, vocabulary, analytical thinking, and synthesis of ideas. Recognition and use of literary and poetic devices in students' own writing is expected. Students will be encouraged to respond to literature as life experience, integrating their own experiences with themes they encounter in Indigenous literature.

Religion 11 (YPHR 11A):

The focus of this course is Church history. The Church has a very rich and complicated past. As Catholics, we believe that Jesus Christ is God. Therefore, the most important event in our history was the Incarnation. The second most important event must be the establishment of our Church by Christ. Throughout the year, we will be examining the Church and its history to have a better understanding of the Church. This course is intended to help you appreciate and understand the history of the Catholic Church by tracing the major moments in Church history; showing how the Church is on a journey guided by the Holy Spirit, fostering knowledge and pride in Christian heritage and identity; exposing students to Catholic writers, helping students recognize themselves as Church; and by examining the connections between Church and state throughout history.

MATH REQUIREMENTS: Students must pass **one** Math 11 course to graduate!

For those who took **Workplace Mathematics 10**: they **must** take **Workplace Mathematics 11**. *This course is intended for students heading into college, the trades, or directly to the workforce. Students who complete the Workplace pathway can upgrade their mathematics to meet post-secondary requirements.*

For those who took **Foundations/Pre-calculus 10**: must now decide to either follow the Foundations or Pre-calculus pathway.

Please note: Students are asked to carefully make this mathematics decision before the start of the school year. The Course Change Policy impacts a student's ability to change mathematics pathways once the course has begun.

The new course Course Change Policy puts into place clear timelines for students who want to change courses from their originally selected courses. The most significant change with this policy is that students will not be permitted to drop a course and enroll into a new course after the Thanksgiving day long weekend.

The Mathematics 11 Pathways: Students must choose one option

Workplace Mathematics 11 (MWPM 11):

This option is designed to provide students with mathematical understanding and critical-thinking skills identified for entry into most trades and colleges. At the end of this course, students are prepared for Workplace Mathematics 12 (Offered only online). **Depending on future goals, mathematics upgrading may be necessary. This course meets the grade 11 graduation requirement.**

This pathway is designed to provide students with mathematical understandings and critical thinking skills identified for entry into a trades program or for direct entry into the workforce. Topics include algebra, geometry, measurement, number, and statistics. The prerequisite for this course is the successful completion of Workplace Mathematics 10 and/or Foundations of Mathematics and Pre-calculus 10. This course meets the grade 11 mathematics requirement for graduation. Students may choose to take Workplace Mathematics 12 upon completion of this course.

Foundations of Mathematics 11 (FOM 11):

This course is for students who intend to pursue **arts** in university or college. *(For students heading into sciences or business, this course will not suffice)* At the end of this course, students are prepared for Foundations of Mathematics 12 and will not be permitted to switch into the Pre-calculus 12 pathway. (Currently **all major post-secondary institutions except UBC**, will admit students into Arts who have achieved a minimum of 60% in Foundations of Mathematics 11.) If students are in the "Foundations" pathway and want to get a university degree, it is recommended that they take Foundations of Mathematics 12 as well. UBC will only accept students to their Arts program if they have **both** Foundations of Mathematics 11 and Foundations of Mathematics 12.

The Foundations of Mathematics pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus, including most arts programs. Topics include financial mathematics, geometry, measurement, logical reasoning, relations and functions, and statistics. The prerequisite for this course is the successful completion of Foundations of Mathematics and Pre-calculus 10. This course meets the grade 11 mathematics requirement for graduation. Students may choose to take Foundations of Mathematics 12 upon completion of this course.

Pre-calculus 11 (PREC 11): Foundations/Pre-calculus 10 with a 73% or better is strongly recommended

This course is for students heading to **university/college**. At the end of this course, students are prepared for Pre-calculus 12 and/or Foundations of Mathematics 12. Some students may choose to take Calculus 12 concurrently with Pre-calculus 12. All major post-secondary institutions will admit students into Arts who have achieved a minimum of 60% in Pre-calculus 11.

The Pre-calculus pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus (e.g., sciences, business, or engineering). Topics include algebra and number, relations and functions, and trigonometry. The prerequisite for this course is the successful completion of Foundations of Mathematics and Pre-calculus 10. This course meets the grade 11 mathematics requirement for graduation. Students may choose to take Foundations of Mathematics 12 or Pre-calculus 12 upon completion of this course.

Pre-calculus 11 Enriched (PREC 11): *(Teacher Recommendation Required).*

This course is primarily intended for students heading to either business or sciences in **university/college**. At the end of this course, students are prepared for Pre-calculus 12 and/or Foundations of Mathematics 12. Some students may choose to take Calculus 12 concurrently with Pre-calculus 12. All major post-secondary institutions will admit students into Arts who have achieved a minimum of 60% in Pre-calculus 11. *This course will show as Pre-calculus 11 on your transcript.*

More Notes Regarding Mathematics!

Students must choose their mathematics 11 course based on their academic goals. The Foundations pathway is designed for **Arts** bound students and, **in our experience, many college/university arts-bound students have been happy and less stressed taking the Foundations pathway.** Most schools will accept Foundations of Mathematics 11 for entrance into Arts programs, though UBC Arts requires the combination of Foundations of Mathematics 11 **and** 12. In the case of UBC, Foundations of Mathematics 12 is considered part of the grade 11 requirements. Pre-calculus 11 is designed for students who intend to take Pre-calculus 12. Pre-calculus 11 only keeps post-secondary options open if students can achieve a minimum grade of 60%.

LANGUAGE REQUIREMENT: You do not need a Second Language to **graduate** or to attend most programs in our local **colleges**. However, a Second Language 11 is required for entry into SFU, UBC or Kwantlen Arts. **(UVIC no longer requires French 11).** *(This requirement can be avoided by attending a college for 2 years and then transferring)* To get an Arts degree from UBC; however, you must have French 12 or its university equivalent.

Core French 11 (FR 11) Prerequisite: French 10 – a 67% standing or better is recommended. This course fulfills the entrance requirements for UBC and SFU. (UVIC no longer requires this) *(Note: Other languages may fulfill this requirement, see Academic Counselling for details)*

In this program students explore a variety of texts and express themselves with better fluency orally and in writing. Students will continue to learn new vocabulary and expressions and further written and communicative skills through an interactive and immersive approach. They will experience a variety of creative works such as dance, songs, or books, as language and culture are intertwined. This course currently fulfills the language requirement for entrance into many post-secondary institutions.

Learning Strategies 11

This course is only open to students already enrolled in the program or by permission of the LRC.

This course has been designed to help meet the academic, social and emotional needs of students who need support to learn in the classroom. Students in this course may be working towards Individual Education Plan goals, or may demonstrate a need for a learning support program to reach their education goals. This course provides direct instruction in effective learning skills and strategies that are needed to become independent, successful learners and teaches students the skills to develop their executive functioning and self advocacy skills.

Students in this course benefit from a structured class to receive direct instruction and support to develop and retain learning and study skills and to help them reach their goals. Students work with a teacher who will monitor their progress and provide instruction and feedback on developing IEP goals, executive functioning, self advocacy and learning strategies taught in this course and help support the generalization of these skills across their other courses.

SCIENCE REQUIREMENT:

Students must complete at least one of the Science 11 courses listed below for graduation and to meet the basic entry requirements for university. A serious science student **might benefit from taking all three** of the major science 11 courses (Chemistry, Physics and Biology). This is **only** suggested for the students who **excel** in the sciences (B+ or A in Science/Math 10) and are interested in all three. While the most common combination is Chemistry 11 and Physics 11, it must be remembered that **each science program at the post-secondary level has different requirements.** Students should consult the UBC and SFU Program Specific Requirement Charts included in this handout. **We advise students, since SFU and UBC are now looking at grade 11 marks, to be very wary of taking more than one science 11 if they earned a C+ or less in science 10 and are just aiming to keep options open.** It is better to choose courses more suited to their strengths and passions.

SCIENCE OPTIONS (All Courses listed below are 4 credits.)

Life Sciences 11 (LFSC 11)

Prerequisite: Science 10-a 73% standing or better is recommended. Life Sciences 11 is a viable choice for students considering a post-secondary career in science or a health-science related field. Students planning to take Anatomy & Physiology 12 should talk to their teacher for advice.

Life Sciences 11, formerly Biology 11, has three primary areas of focus. Characteristics of living things, which will focus on: differences in cell structure between eukaryotic and prokaryotic cells, sexual and asexual reproduction, cellular reproduction and photosynthesis, and basic structures of viruses and how they affect organisms will be studied. Process of Evolution will look at: agents of evolution, major theories, and models of evolution, coevolution, and trends in complexity of organisms, and genetic modifications including ethical considerations. The unit on Taxonomy will focus on: evidence for groupings of organisms, the current taxons, the use of cladograms, the three domains, and the six kingdoms method of classification.

Chemistry 11 (CH 11) Prerequisite: Science 10 +Foundations Pre-calculus 10 with a 73% standing or better is recommended. Highly recommended for students who are considering a post-secondary career in science or a science related field.

Chemistry 11 includes five major Units. Unit 1 (The Mole) introduces the mole as the central unit of measurement in chemistry and students learn how to use it to express amounts of chemical species, determine empirical and molecular formulae, and become fluent with stoichiometry in many of its applications. Unit 2 (Chemical Reactions) discusses the predictable ways atoms rearrange in chemical reactions while focusing on the conservation of both matter and energy. The applications and significance of chemical reactions for human health, society, and health are also presented. Unit 3

(Atoms and Molecules) revisits and elaborates upon the discussion of the building blocks of matter, namely atoms and molecules, that students learned about in science 10. The quantum mechanical model of the atom is introduced and its implications for chemical bonding, periodicity of elemental properties, and intermolecular forces are described in detail. Unit 4 (Solution Chemistry) discusses the nature of solutions including solubility and what it depends on. The applications and implications of solution chemistry for human health, society, and the environment are also covered. Unit 5 (Organic Chemistry) discusses carbon's unique set of properties that result in the existence of such a wide variety and complexity of organic compounds. Nomenclature, isomerism, classes of organic compounds, and their reactions are discussed in detail as well as the significant implications of this branch of chemistry for human health, society, and the environment.

Physics 11 (PH 11) Prerequisite: Science 10 + Foundations Pre-calculus 10 – a 73% standing or better is recommended This course is highly recommended for students considering a post-secondary career in science or a science related field or even certain trades.

Physics 11 is a practical yet challenging course combining scientific principles and mathematical skills. It involves analyzing how moving objects behave and what causes them to move in various directions. We look at the concept of momentum and its conservation and then incorporate the conservation of energy and the ability to do work on objects. The application of conservation laws helps to explain the flow of electricity within circuits. We study wave motion with respect to mechanical and electromagnetic waves. Light optics is another topic that can be analyzed. Nuclear reactions give us an understanding of the atomic model and how it relates to the energy stored in atoms. Quantum mechanics can be used to describe the behaviour of very small particles and Special Relativity helps explain the relationship between space and time.

Specialized Science 12 (SPSC 12) *Fulfills the basic science 11 requirement for graduation* but is **not** an Admissions' GPA course for those aiming to pursue a career in the sciences at the post-secondary level. **Prerequisite: Science 10 or with permission**

This course aims to help students develop the skills necessary to find accurate scientific information, use science in daily life, and effectively demonstrate their understanding using multiple means of representation. This course covers the foundations of anatomy, physiology, and biomechanics as they apply to sport and activities of daily living. Emphasis is on understanding and applying concepts of the musculoskeletal system with some concepts from cardiovascular, respiratory, and immune systems as they apply to emergency first aid. Students will complete a certification in First Aid with CPR C and AED.

SOCIAL STUDIES REQUIREMENT:

Students must complete at least one of the Social Studies 12 courses listed below for graduation.

The following Grade 12-level courses meet the Social Studies' graduation requirement and may be taken in grade 11 or 12. Many of these courses can also be used in the GPA calculation for admission into university. Students heading to the **Arts** are encouraged to take more than one of these options.

20th Century World History 12 (WH 12)

This course covers the history of four countries (Germany, India, Russia and the USA), c.1900 to 1965; exploring the impact of war, authoritarian regimes, independence movements and civil rights. The course is designed to help students develop the skills they will need to continue their study of the humanities; including persuasive essay writing, source analysis and independent research.

Law Studies 12 (LST 12)

This is a survey course intended to introduce students to the fundamentals of Canadian law procedure, civil law and family law and is a good option for those heading into the Arts. The major component will be to analyze criminal law, civil law, and family. Students will grow to understand the need for laws and the importance of the Charter of rights and freedoms. They will also learn that with rights and freedoms comes responsibilities to act in a responsible manner and be good citizens of Canada.

Social Justice 12 (SJ 12) /Genocide 12 (GENO 12) (Accelerated)

This accelerated **8 credit course** covers the learning outcomes of both Social Justice (SJ 12) and Genocide. *Social Justice 12* is a course which examines the causes, history, and solutions of various issues such as poverty, famine, hunger, war, AIDS, and homelessness through the lens of Catholic Social teaching. In *Genocide 12* the backgrounds, political motivations, methods, and international responses to genocides will be investigated throughout the course.

Physical Geography 12 (PGEO 12)

As an ever-increasing world population puts increased demands on the planet's resources, there is a need for a society that can make informed decisions about the sustainability of the Earth's resources and the future of the planet. The geographically literate student can interpret the landscape and understand the interconnections between his or her actions and the Earth's physical systems. Students will have opportunities to analyze the critical interplay of culture, economics, politics, and social considerations when examining the relationship between people and the environment. Through the study of geography, students can develop an understanding of how local, regional, and global environments affect them, and allow them to make informed decisions and take appropriate action to manage the earth's resources in a responsible manner. *This course is a good option for students heading into the Arts at the university who are looking for more breadth in their course selection and experience in a more science based arts course to meet degree requirements down the road.*

Economics 12 (EC 12)/ Economic Theory 12 (ECT 12) (Accelerated)

This **8 credit course** studies the economics of the modern world (stock markets, advertising, marketing, national and international business) and introduces students to the role that economics plays in our everyday lives. The course commences with a basic introduction to Economics as a social science and how we make economic decisions with the scarce resources that we have. The course is intended to have the students well prepared for an introductory course in Economics at university. In that regard, the next two major areas of focus in the course are Microeconomics as well as Macroeconomics. Microeconomics explores how individuals, households and firms make decisions with how they choose to allocate the resources that they have. Macroeconomics explores the behavior and performance of an economy. It explores wider economic areas such as unemployment, growth rate, gross domestic product, and inflation.

****Economics/Economic Theory Accelerated Course fulfills both the Social Studies requirement and the Applied Skills requirement for graduation**

ARTS EDUCATION and/or an APPLIED DESIGN, SKILLS AND TECHNOLOGY REQUIREMENT:

To graduate from BC, students **must have four credits** in an Applied Skill or Fine Arts course in grade 10, 11 or 12. Students are welcome to select more than one.

Art Studio 11 (VAST 11)

In Art 11, students reflect on the interconnectedness of the individual, community, history, and society. Working individually and collaboratively, students use imagination, observation, and inquiry to create meaningful artistic expression to represent personal identity and cultural expression. Engaging in risk taking, and problem solving, they develop artworks with a specific audience in mind, using visual arts to communicate and respond to social and environmental issues and connect to their personal values.

Prerequisite: Art Studio 10

Choral Music: Concert Choir 11 (CMCC 11) *(On schedule)*

This yearlong course explores choral music from a wide variety of cultures, genres, and periods through study and performance. Emphasis will be placed on developing the complete musicianship of each student through instruction on basic vocal technique, sight-reading skills, and advanced level music theory. In addition to our Christmas and spring music nights, all choir students will have the opportunity to perform at music festivals, school masses and services, and are eligible to go on the STMC music trips.

Choral Music: Chamber Choir 11 (MUCH 11) *(Off schedule)*

This is an auditioned choir open to students in grades 9 to 12. Students must be registered in the concert choir program to be eligible for this course. Emphasis will be placed on performing challenging choral music from a wide variety of cultures, genres, and periods. In addition to our Christmas and spring music nights, the chamber singers will perform at various festivals throughout the lower mainland. Opening and remembrance mass, the STMC open house, the elementary recruitment tour, as well as several different performance engagements that come up throughout the course of the year.

Co-requisite: equivalent grade level Concert Choir

Choral Music: Vocal Jazz 11 (CMJV 11) *(Off schedule)*

This is an auditioned choir open to students in grades 10 to 12. Students must be registered in the concert choir program to be eligible for this course. Emphasis will be placed on performing a wide variety of vocal jazz repertoire as well as study of history and jazz theory. In addition to our Christmas and Jazz music nights, the Jazz Singers also perform at various competitive festivals throughout the lower mainland and at occasional school functions. **Co-requisite: equivalent grade level Concert Choir**

Composition and Production 11 (MUCP 11) *(previously called "Recording and Sound")*

In Composition and Production students learn the fundamentals of live sound engineering, live sound recording, Foley arts, sound design, podcasting, and music/beat creation. Students utilize hands-on equipment for live sound recording, live sound setups for assemblies, concerts, and masses, while also utilizing industry standard hardware and software for music and beat creation. No previous music experience required. This program allows for creative development while introducing and preparing students for potential studies and work in the audio field tied to music production, live sound mixing, and film & broadcasting sound engineering.

Computer Programming 11 (CMPR 11) The Grade 11 course is the first formal programming course offered at STMC, providing students with an opportunity to hone the programming foundation built in Technology Explorations 10. Continuing to work within the Javascript/ECMAScript ecosystem, students will have a broad range of experiences such as interactive web programming, cross-platform development, an introduction to server-side scripting, and even task automation in the browser. Specific topics will be explored based on class interest.

This course is primarily project- and experience-based, and students will be provided with ample class time to complete assigned materials. Students who work efficiently and manage their time well (and have a strong working knowledge of previous concepts) should not expect regular homework from this class. Additional assignments and extensions are available for students seeking further challenges.

Prerequisite: Tech Explorations 10 or with Instructor's permission

Drafting 11 (TDRF 11) *(previously called "Architectural Design")*:

In this intermediate Architectural Design course, students build on the skills learned in Drafting 10 and work through the design process to solve more complex design problems. Students create and deliver impressive presentations with 3D models, animation walkthroughs, computer renderings, and technical drawings to communicate their ideas. They develop an understanding of building construction technologies and an appreciation for local and international architecture. Students will work on building a portfolio of work that can be used for post-secondary applications. **Prerequisite: Drafting 10**

Drama 11 (DRM 11):

Drama 11 is a one year course in which students begin to learn advanced acting techniques, and how to create a character on stage. Students also continue to develop their vocal and movement skills. The course includes:

- playwriting (one-act plays written and performed for elementary school students)
- scenework
- monologues
- attending and reviewing two plays presented in theatres in the lower mainland
- performing in a variety of theatre genres and styles
- audition techniques
- performance opportunities in our school, community, and at drama festivals
- a stage combat workshop (including swordplay)
- exploring First Peoples worldviews, perspectives, and stories communicated through dramatic works
- improvisations, theatre games and more

Engineering 11 (ENR 11): Grade 11 design engineering course provides a greater level in working within the design cycle and design thinking. Students develop an awareness and understanding of real-life experiences in designing and in the developments and opportunities seen in creative, manufacturing and engineering industries.

Project-based learning is at the core of the course to help enhance your skills in this area within the aim to always produce a physical outcome of your design from concept to product or solution. The outcome may be a prototype in modelling material, a working concept, a full construction using an appropriate material, a manufactured board, or timber-based solution, electronic circuit alongside a 3D printed model, a laser or CNC manufactured item, or a combination of the above. The use of timber is no longer exclusive. The material used needs to be appropriate for the project. Computer Aided Design (CAD) is taught and used frequently as a tool at this grade level in order to enhance the students skill set. In developing CAD ability students can create greater and more sophisticated solutions to problems and run virtual testing methods. **Prerequisite: Tech Explorations 10 or with Instructor's permission**

Human Kinetics 11 (YAH 11A):

This course is designed to teach students how to identify, assess and manage common and life-threatening athletic injuries. Students will learn about the basics of human anatomy and physiology to apply concepts to athletic injuries and training practices. Further, students will be able to analyze a proactive management approach to ensure the prevention, management, and general treatment of athletic injuries. Upon successful completion of the course, students will be certified in CPR level C First Aid and AED training and have a strong understanding of athletic taping techniques.

Instrumental Music: Concert Band 11 (IMCB 11) (On Schedule)

This on timetable full year course is open to students from grades 11 to 12 and is designed to further develop students' musical skills to a higher degree within a concert band setting. Students will be further instructed in areas of music, theory, listening, music history, composition, and musical performance in various musical styles. Students will also have the opportunity to perform at our annual Christmas and spring music nights as well as various festival performances around the lower mainland. Ensembles will receive professional feedback through adjudications and clinics over the course of the year to aid in musical development. Students are required to rent their own instrument for this course.

Students must either have completed Junior Band 9-10 or have the permission of the Band Director to be eligible to take this course.

Instrumental Music: Jazz Band 11 (IMJB 11) (Off Schedule)

This full year course meets regularly off the timetable. This auditioned group is open to students from Grades 8 to 12 who are selected based on their audition. Students will be instructed in advanced areas of jazz theory, listening, jazz history, composition, jazz improvisation, and performance in the jazz style. *Students are required to provide their own instrument for this course. Students must either be enrolled in a concert band program or have the permission of the Band Director to be eligible to take this course. All students must audition to be eligible for this class. They will be placed in either Jazz Band A or B depending on their audition.* **Co-requisite: equivalent grade level Concert Band**

Introduction to Strength and Conditioning 11 (YHRA 11) *(this applied skills course was previously called "Fitness 11")* This is an introductory approach to strength and conditioning, as well as nutrition. Students will experience a variety of training modalities to improve their general fitness levels. With exposure to a variety of equipment and types of training, students will discover how to move safely and effectively in a variety of realms of fitness. (students must choose either 'AM' or during block rotation when selecting in PowerSchool)

Graphic Production 11 (GRPR 11) *(previously called "Yearbook")* Graphic Production 11 is a rigorous course requiring focus, self-motivation, teamwork, and the ability to work under pressure to meet fixed deadlines. The course is designed for students intending to pursue careers in journalism, business, graphic arts, or illustration. Essentially, the yearbook program is a business operating within the context of high school. Students are accountable not only to their instructor but to their peers within the class, and to the patrons of the business - namely the students of the school who purchase yearbooks. At the grade 11 level, students learn the basic skills necessary to create the yearbook. This includes computer software such as Adobe Photoshop and In Design, and the online software, Pixami. They learn, and develop their photography, journalistic, writing, layout and editing skills, as well as creative problem solving and business skills (teamwork, meeting deadlines, time management, showing initiative etc.) crucial in the yearbook environment. At the grade 11 level, students are not yet in leadership or editor roles but will often be partnered with Graphic Production 12 students to learn these skills for when they take Graphic Production 12.

Media Arts 11 (VAMT 11): Media Arts is an Applied Fine Arts class that will introduce the role graphic and digital design play in everyday life and business. The primary focus will be developing students' skills using Adobe InDesign, Illustrator, Photoshop, and Premiere while also exploring the interplay between art, design, digital photography, and videography. This is not strictly a software class: Students will develop design solutions to projects that Media Arts designers commonly tackle. Students will strengthen their ability to invent, develop, communicate, and execute creative solutions within the restrictions of real-world scenarios. While students will be introduced to the Adobe Creative Suite, this is not strictly a software class: Students will be tasked with employing what they learn in readings, lectures, demonstrations, online research, etc. into the professional execution of their projects.

*** Outside Timetable Projects, Responsibilities, and Opportunities**

Due to the time constraints of our daily class times, there will be some Media Arts "lab" assignments that will require students to attend a weekend session. These labs require students to learn how to set up equipment for different projects that include, but are not limited to photoshoots, video interviews, and event live streaming. Each of these labs will have a couple of opportunities to complete. As part of this class, attendance to these labs will be mandatory.

As a Media Arts is a content creation class, Media Arts 12 students are required to participate in coverage of special school events that fall outside the regular school timetable. Most of the opportunities come with some sort of reward/compensation for your time and ability (either service hours, trips and food, or money). This is a REQUIREMENT for Media Arts 12 students but also an opportunity that will be opened to interested Media Arts 11 students.

Robotics 11 (MTROB 11): The Robotics 11 course covers practical application of systems and control that go into robotic construction and design, with a particular focus on mechanical components. Students will develop knowledge of the key individual elements (mechanical and electrical/electronic) with the goal of creating effective structures, behaviours, and motion. High-level concepts about robotics will be introduced and discussed, such as robotic technology in the community and industry, similarities and differences between autonomous and remotely controlled robots, and simple robotic design and production. **Prerequisite: Tech Explorations 10 or with Instructor's permission**

Course Selection Sheet Grade 12 – 2023/2024

1. This is a worksheet only.
2. Course selection should be entered online using PowerSchool. Parents and students should work together to select courses. Selections are considered to have parent approval. Any issues accessing the portal should be directed to Mr. Olson.
3. Because course selection at this level has broader post-secondary implications, students and parents are asked to consult with our Academic Counsellors, teachers or our Heads of Departments should they have any questions. **It is recommended that you attend an Academic Guidance Counsellor session before you complete your 2023-2024 course selections.** Carefully select your courses and list these in order of priority, ensuring that your selections enable you to qualify for the B.C. Grade 12 Graduation Diploma.
4. The deadline for course selections to be entered into PowerSchool is **February 15, 2023.**
5. Please consult the [Sr. Course Programming Guide](#) found on the website.
6. Many of our senior courses have prerequisites, please find details in the course descriptions in the Course Programming Guide or on the [Academics](#) pages of the website.
7. Courses with “*” are Outside of the Timetable. Arts Education courses with a “*” are by audition. Please contact the Choir Director, Mr. Lui, or the Band Director, Ms. MacLellan, for information about auditions.

Course Considerations:

1. Most universities have a second language requirement at the grade 11 level. Please check requirements carefully for the programs you are interested in.
2. Students are expected to complete the grade 11 course before enrolling in the grade 12 course. For example, students will enroll in Media Arts 11 before enrolling in Media Arts 12, regardless of current grade level.
3. Grade 11 students are not permitted study blocks.
4. Human Kinetics 11, Leadership 12, Psychology 12, Intro Strength & Conditioning 11, Advanced Strength and Conditioning 12, Learning Strategies 11, and Learning Strategies 12, **will** be visible on your transcripts, **do** count towards graduation credits, and **provide breadth** to your education. However, **some** post-secondary institutions **may not** consider these courses for admissions purposes. Human Kinetics 11, Intro Strength & Conditioning 11, and Advanced Strength and Conditioning 12 meet the ADST graduation requirement.

GRADUATION REQUIREMENTS:

Each course equals 4 credits. Students require a minimum of 80 credits from grade 10-12, including several required courses. Please list the course you took (plan to take) to complete the following requirements.

<input type="checkbox"/> Career Life Education 10 <input type="checkbox"/> Composition & Literary Studies 10 <input type="checkbox"/> a Mathematics 10 _____ <input type="checkbox"/> Social Studies 10 <input type="checkbox"/> Science 10 <input type="checkbox"/> Physical & Health Education 10 <input type="checkbox"/> English First Peoples Literary Studies & Writing 11 (<i>this course meets the new Indigenous Focused course requirement</i>)	<input type="checkbox"/> a Science 11 or 12 _____ <input type="checkbox"/> a Social Studies 11 or 12 _____ <input type="checkbox"/> a Mathematics 11 or 12 _____ <input type="checkbox"/> an Arts Education/ADST 10, 11, or 12 _____ <input type="checkbox"/> 4 courses at the grade 12 level <ul style="list-style-type: none"> ◇ English Studies 12 ◇ Career Life Connections A and B ◇ Religion 12 ◇ _____
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GRADE 12 COURSE SELECTION:

A. Core Courses: (Required) 1. English Studies 12 2. Religion 12 Career Life Connections B complete with Exit Interview (taught through the academic assembly schedule)	B. Other Courses: Select six additional courses. If you are applying to some post-secondary institutions it is recommended that at least 5 of the following are grade 12 courses. Please carefully check admission requirements for each post-secondary institution and program. <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 3. _____ 4. _____ 5. _____ </div> <div style="width: 45%;"> 6. _____ 7. _____ 8. _____ </div> </div>
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STMC Graduation Requirements/Course Planning Guide for Grades 11-12

	Grade 11	Grade 12
Religion (required)	<input type="checkbox"/> Religion 11	<input type="checkbox"/> Religion 12
Career Ed. (required)	<input type="checkbox"/> Career Life Connections A (& Capstone)	<input type="checkbox"/> Career Life Connections B (& Exit Interview)
English (required)	<input type="checkbox"/> English First Peoples Literary Studies and Writing 11	<input type="checkbox"/> English Studies 12
Mathematics (<i>must take 1 at the grade 11 level</i>)	<input type="checkbox"/> Workplace Mathematics 11 <input type="checkbox"/> Foundations of Mathematics 11 <input type="checkbox"/> Pre-calculus 11 <input type="checkbox"/> Pre-calculus Enriched 11	<input type="checkbox"/> Foundations of Mathematics 12 <input type="checkbox"/> Pre-calculus 12 <input type="checkbox"/> Calculus 12 <input type="checkbox"/> Computer Science 12
Science (<i>must take at least 1 at the grade 11 or 12 level</i>)	<input type="checkbox"/> Life Sciences 11 <input type="checkbox"/> Chemistry 11 <input type="checkbox"/> Physics 11 <input type="checkbox"/> Specialized Science 12	<input type="checkbox"/> Anatomy & Physiology 12 <input type="checkbox"/> Chemistry 12 <input type="checkbox"/> Physics 12 <input type="checkbox"/> Specialized Science 12
Social Studies (<i>must take at least 1 in grade 11 or 12</i>)	<input type="checkbox"/> 20th Century World History 12 <input type="checkbox"/> Law Studies 12 <input type="checkbox"/> Physical Geography 12 <input type="checkbox"/> Social Justice/Genocide 12 <input type="checkbox"/> Economics/Economic Theory 12	<input type="checkbox"/> 20th Century World History 12 <input type="checkbox"/> Law Studies 12 <input type="checkbox"/> Physical Geography 12 <input type="checkbox"/> Social Justice/Genocide 12 <input type="checkbox"/> Economics/Economic Theory 12
Arts Education & ADST <i>(must choose at least 1 course in gr.10-12)</i> Students are expected to complete the grade 11 course before enrolling in the grade 12 course.	<input type="checkbox"/> Art Studio 11 <input type="checkbox"/> Drama 11 <input type="checkbox"/> Concert Band 11 <input type="checkbox"/> Jazz Band 11* (by audition) <input type="checkbox"/> Concert Choir 11 <input type="checkbox"/> Chamber Choir 11* (by audition) <input type="checkbox"/> Vocal Jazz 11* (by audition) <input type="checkbox"/> Engineering 11 <input type="checkbox"/> Computer Programming 11 <input type="checkbox"/> Robotics 11 <input type="checkbox"/> Human Kinetics 11 <input type="checkbox"/> Intro Strength & Conditioning 11 <input type="checkbox"/> Intro Strength & Conditioning 11 AM* <input type="checkbox"/> Media Arts 11 <input type="checkbox"/> Drafting 11 (Architectural Design) <input type="checkbox"/> Graphic Production 11 (Yearbook) <input type="checkbox"/> Composition & Production 11	<input type="checkbox"/> Art Studio 12 <input type="checkbox"/> Drama 12 <input type="checkbox"/> Concert Band 12 <input type="checkbox"/> Jazz Band 12* (by audition) <input type="checkbox"/> Concert Choir 12 <input type="checkbox"/> Chamber Choir 12* (by audition) <input type="checkbox"/> Vocal Jazz 12* (by audition) <input type="checkbox"/> Engineering 12 <input type="checkbox"/> Computer Programming 12 <input type="checkbox"/> Robotics 12 <input type="checkbox"/> Adv. Strength & Conditioning 12 <input type="checkbox"/> Adv. Strength & Conditioning 12 AM* <input type="checkbox"/> Media Arts 12 <input type="checkbox"/> Graphic Production 12 (Yearbook) <input type="checkbox"/> Composition & Production 12
Second Language (<i>G.11 level needed for most universities</i>)	<input type="checkbox"/> Core French 11	<input type="checkbox"/> Core French 12
Additional Courses	<input type="checkbox"/> Learning Strategies 11 (<i>if you are already in the program</i>)	<input type="checkbox"/> Psychology 12 <input type="checkbox"/> Leadership 12 <input type="checkbox"/> Learning Strategies 12 (<i>if you are already in the program</i>)

MANDATORY REQUIREMENTS: To graduate from STMC and to fulfill the BC requirements, all students must complete the courses listed below. (Each is worth 4 credits for a total of 12)

Career Life Connections A/B (MCLC 12) *At STMC, Student take CLC A in grade 11 for two credits and CLC B in grade 12 for two credits.*

To fulfill this course's requirements at STMC, students must complete:

- o 30 hours of work experience, community service or mentorship in **both** grades 11 & 12
- o a Capstone Project
- o an Exit Interview Presentation in which students reflect on their time at STMC, look ahead to their career goals, and create a transitional plan on how to attain those goals.

This course offers many opportunities to explore and develop personal interests, strengths, and competencies while making connections with experiential learning, career-life possibilities, and preferred post-graduation opportunities. In addition, this course will build on the essential skills & attributes of an STMC graduate as students think critically, solve problems, adapt readily to new situations and understand what it means to be a servant leader within a faith-based community.

English Studies 12 (MENST 12) *(prerequisite EFP Literary Studies & Writing 11)*

In Grade 12, the BC English Language Arts Curriculum offers a unified English course called English Studies 12. This course is not divided into modules as in Grades 10 and 11. English Studies 12 is a graduation requirement in BC, and at STMC it is designed to prepare students directly for success in post-secondary studies. Like Literary Studies 11, the course is designed to build skills in writing, analytical reading, and public speaking through responses to various genres of literature and an examination of societal issues surrounding modern communication technology Media Literacy and Digital Citizenship. The major literary genres for study will be non-fiction essays, novels, short stories, Shakespearean drama, and poetry. Students will also read three independent novels—one novel per term. Students will choose these titles themselves to encourage reading as an enjoyable activity, as well as working on reading fluency and comprehension. Students at this level are expected to master the skill of analysis and express their insights through formal written work. Emphasis will be on students developing a confident voice as writers. Students will spend a significant portion of the year engaged in an Extended Research Essay. Students will be asked to develop and research their own English or cross-curricular topic, and produce a fully cited scholarly essay. The Extended Research Essay is designed to be a culmination of students' skills in reading, writing, research and analytical thinking.

In the second half of the year, students will write the Provincial Grade 12 Literacy Assessment, which is a graduation requirement in BC as mandated by the Ministry of Education. All students must write the assessment to graduate. This is a cross-curricular assessment of students' ability to read and analyze text, and write well-structured analytical prose responses. Students' scores will not be blended with their school marks on their final transcript for the course. In other words, their score on the Literacy Assessment will not impact students' final English Studies 12 mark. Students will receive a report regarding their performance on the Literacy Assessment directly from the Ministry of Education.

Religion 12 (YPHR 12A) (This course is needed for graduation at STMC and will be listed as *Philosophy and Religion 12A* on the student's transcript).

Religion 12 is designed to help students develop a fundamental understanding of how Catholicism interacts with who they are and how they plan to live the rest of their lives. The course is designed to help students explore issues involving decisions about life, legal, cultural, and moral dimensions. In addition, students will take a deeper look at the church teachings as it relates to human life and the dignity of the person. An overall analysis of the Essential Elements of an Edmund Rice Christian Brother Education will also be a focus of this year.

Additional Notes:

Grade 12 students **must** select:

- **A minimum of FOUR Grade 12 courses to graduate.** (English Studies 12, Religion 12, CLC, plus one more)
- **A Social Studies course (in either grade 11 or grade 12)**
- **An ADST or Arts Education course (in either grade 10, 11, or 12)**
- **8 on-schedule courses** if they are NOT applying for a Study Block or a minimum of **7 on-schedule courses** if they are applying for a Study Block.
 - If applying for a Study Block, students will be directed to complete a **Study Application Form** through the PowerSchool Course Selection site. Students must indicate an additional course should they not be granted a study.

University-bound students need English Studies 12 and at least 5 or more Approved Academic courses. The following **asterisked** courses can be used to calculate GPA for admissions into SFU, UBC. However, each university faculty looks for specific courses when calculating entry GPAs. Because this booklet only deals with UBC and SFU, **it is a student's responsibility to do their own research** as every school across the country may have different requirements.

Additional Grade 12 Level Course Options

******In addition to the courses previously listed at the grade 11 level, students can choose from the following list to ensure they fulfill the required number of courses at the grade 12 level.

ARTS EDUCATION and/or an APPLIED DESIGN, SKILLS AND TECHNOLOGY:

In order to graduate from BC, students **must have four credits** in an Applied Skill or Fine Arts course in grade 10, 11 or 12. Students are welcome to select more than one

Advanced Strength and Conditioning 12 (YHRA 12) (*this applied skills course was previously called "Fitness 12"*) (students must choose either 'AM' or during block rotation when selecting in PowerSchool) **Prerequisite: Introduction to Strength and Conditioning 11**

Combining their knowledge from "Intro to Strength and Conditioning" with a more in-depth approach to training principles and dietary habits, students will work towards becoming adept at designing personalized weight training programs based on individual needs and goals.

Art Studio 12 (VAST 12)

In Art 12, students refine artistic skills, and make purposeful artistic choices to enhance the depth and passion of their message. Students create works to reflect their own personal voice, story, and values in connection with a specific place, time, and context. Working individually and collaboratively, they combine various materials and processes, demonstrate creative thinking and innovation to communicate ideas and express emotions. **Prerequisite: Art Studio 11**

Choral Music: Concert Choir 12 (CMCC 12) (*On schedule*)

This yearlong course explores choral music from a wide variety of cultures, genres, and periods through study and performance. Emphasis will be placed on developing the complete musicianship of each student through instruction on basic vocal technique, sight-reading skills, and advanced level music theory. In addition to our Christmas and spring music nights, all choir students will have the opportunity to perform at music festivals, school masses and services, and are eligible to go on the STMC music trips.

Choral Music: Chamber Choir 12 (MUCH 11) (Off schedule)

This is an auditioned choir open to students in grades 9 to 12. Students must be registered in the concert choir program to be eligible for this course. Emphasis will be placed on performing challenging choral music from a wide variety of cultures, genres, and periods. In addition to our Christmas and spring music nights, the chamber singers will perform at various festivals throughout the lower mainland. Opening and remembrance mass, the STMC open house, the elementary recruitment tour, as well as several different performance engagements that come up throughout the course of the year.

Co-requisite: equivalent grade level Concert Choir

Choral Music: Vocal Jazz 12 (CMJV 12) (Off schedule)

This is an auditioned choir open to students in grades 10 to 12. Students must be registered in the concert choir program to be eligible for this course. Emphasis will be placed on performing a wide variety of vocal jazz repertoire as well as study of history and jazz theory. In addition to our Christmas and Jazz music nights, the Jazz Singers also perform at various competitive festivals throughout the lower mainland and at occasional school functions. **Co-requisite: equivalent grade level Concert Choir**

Composition and Production 12 (MUCP 11) (previously called "Recording and Sound")

In Composition and Production students learn the fundamentals of live sound engineering, live sound recording, Foley arts, sound design, podcasting, and music/beat creation. Students utilize hands-on equipment for live sound recording, live sound setups for assemblies, concerts, and masses, while also utilizing industry standard hardware and software for music and beat creation. No previous music experience required. This program allows for creative development while introducing and preparing students for potential studies and work in the audio field tied to music production, live sound mixing, and film & broadcasting sound engineering. **Prerequisite: Composition and Production 11**

Computer Programming 12 (CMPR 12): As the direct successor to Computer Programming 11, this course continues development of JS/ES concepts in a multitude of environments. Students develop projects that build familiarity with libraries, frameworks, databases, REST services, and toolchains. Modular design is highlighted, and strategies for dividing tasks between team members are regularly practiced. By the end of the year, students will have proposed and worked on a non-profit project for a client either within the school or community.

This course is designed to be a lighter option to Computer Science 12; it focuses on increasing the breadth of projects rather than teaching advanced concepts with rigorous testing. Students who work efficiently and manage their time well should not expect regular homework from this class. A practical arts credit is provided instead of a mathematics credit, and students who are planning to enter a computer science program in university should consider the Computer Science 12 course instead.

Prerequisite: Computer Programming 11

Computer Science 12: This course is classified as a mathematics course and can be found in the mathematics section below.

Drama 12 (DRM 12):

Drama 12 is a one year course in which students begin to learn advanced acting techniques, and how to create a character on stage. Students also continue to develop their vocal and movement skills. The course includes: **Prerequisite:** Drama 11

- playwriting (one-act plays written and performed for elementary school students)
- scenework
- monologues
- attending and reviewing two plays presented in theatres in the lower mainland
- performing in a variety of theatre genres and styles
- audition techniques

- performance opportunities in our school, community, and at drama festivals
- a stage combat workshop (including swordplay)
- exploring First Peoples worldviews, perspectives, and stories communicated through dramatic works
- improvisations, theatre games and more

***Economics 12 (EC 12)/ Economic Theory 12 (ECT 12) (*Accelerated: 8 credits in one block*):**

This **8 credit course** studies the economics of the modern world (stock markets, advertising, marketing, national and international business) and introduces students to the role that economics plays in our everyday lives. The course commences with a basic introduction to Economics as a social science and how we make economic decisions with the scarce resources that we have. The course is intended to have the students well prepared for an introductory course in Economics at university. In that regard, the next two major areas of focus in the course are Microeconomics as well as Macroeconomics. Microeconomics explores how individuals, households and firms make decisions with how they choose to allocate the resources that they have. Macroeconomics explores the behavior and performance of an economy. It explores wider economic areas such as unemployment, growth rate, gross domestic product, and inflation.

****Economics/Economic Theory Accelerated Course fulfills *both* the Social Studies requirement and the Applied Skills requirement for graduation**

Engineering 12 (ENR 11): Built off the prerequisite of grade 11 design engineering this course provides further development and understanding of engineering topics.

Students will continue to work within the design cycle and incorporate design thinking. At this level, this should now be the standard of approach for all students on this course and a process they are familiar with. Development of awareness and understanding regarding real-life experiences problems and engineering type projects remains the focus that drives learning. The topics are built on those covered in grade 11. Much of the foundational knowledge gained in grade 10 and 11 will help with these grade 12 topics. Each area will incorporate manufacturing in the form of modelling, prototyping, and machining via CAM (computer aided manufacturing) methods. Greater use of Computer Aided Design (CAD) is encouraged at this grade level in order to further enhance the students skill set. Developing wider CAD ability students can create greater and more sophisticated solutions to problems and run virtual testing methods. **Prerequisite: Engineering 11 or with Instructor's permission**

Instrumental Music: Concert Band 12 (IMCB 12) (*On Schedule*)

This on timetable full year course is open to students from grades 11 to 12 and is designed to further develop students' musical skills to a higher degree within a concert band setting. Students will be further instructed in areas of music, theory, listening, music history, composition, and musical performance in various musical styles. Students will also have the opportunity to perform at our annual Christmas and spring music nights as well as various festival performances around the lower mainland. Ensembles will receive professional feedback through adjudications and clinics over the course of the year to aid in musical development. Students are required to rent their own instrument for this course.

Students must either have completed Junior Band 9-10 or have the permission of the Band Director to be eligible to take this course.

Instrumental Music: Jazz Band 12 (IMJB 12) (*Off Schedule*)

This full year course meets regularly off the timetable. This auditioned group is open to students from Grades 10 to 12 who are selected based on their audition. Students will be instructed in advanced areas of jazz theory, listening, jazz history, composition, jazz improvisation, and performance in the jazz style. *Students are required to provide their own instrument for this course. Students must either be enrolled in a concert band program or have the permission of the Band Director to be eligible to take this course. All students must audition to be eligible for this class. They will be placed in either Jazz Band A or B depending on their audition.* **Co-requisite: equivalent grade level Concert Band**

Graphic Production 12 (GRPR 12) (*previously called “Yearbook”*) In Graphic Production 12 students further build on the knowledge and skills developed in Graphic Production (Yearbook) 11 while taking on a leadership position in editing, graphics, or general Yearbook production management.

Prerequisite: Graphic Production 11

Media Arts 12 (VAMT 12): Media Arts 12 is a course that builds upon the foundation developed in Media Arts 11 where students are tasked with professional projects in graphic and interactive design, print production, advertising, and media coverage using the software and hardware available to the school. The course will introduce students to the professional realities graphic designers may encounter when working for a client.

Each project will add more challenging skills to the foundation built in Media Arts 11. Students will explore graphic design, photography, print and layout design, interactive design, and production with the purpose of presentation and promotion. To simulate a professional work environment, students will be required to work both individually as well as in groups to complete projects presented to them.

Students will also be given the opportunity to create their own “inspiration” projects to broaden their skills. The hands-on “creation” of finished projects will be supplemented by lectures, demonstrations, field trips, online research, and group critiques. **Prerequisite: Media Arts 11**

*** Outside Timetable Projects, Responsibilities, and Opportunities**

Due to the time constraints of our daily class times, there will be some Media Arts “lab” assignments that will require students to attend a weekend session. These labs require students to learn how to set up equipment for different projects that include, but are not limited to photoshoots, video interviews, and event live streaming. Each of these labs will have a couple of opportunities to complete. As part of this class, attendance to these labs will be mandatory.

As a Media Arts is a content creation class, Media Arts 12 students are required to participate in coverage of special school events that fall outside the regular school timetable. Most of the opportunities come with some sort of reward/compensation for your time and ability (either service hours, trips and food, or money). This is a REQUIREMENT for Media Arts 12 students but also an opportunity that will be opened to interested Media Arts 11 students.

Robotics 12 (TROB 12): Robotics 12 complements the Robotics 11 course by shifting focus to logic and programming with common microcontrollers (Arduino, Raspberry Pi, ESP32) using DC circuit concepts to connect various technologies. As a true interdisciplinary course, the gamut of skills identified in the ADST curriculum will be practiced and improved through the duration of this course.

Projects will be larger and more complete than in previous years, and will be tailored to specific student interests and societal trends. Students will spend a greater portion of time working with advanced topics such as autonomous strategies, sensor data processing, and situational analysis. A portion of the year will be set aside for student-led project choice - individuals will identify an area of interest for personal development, set measurable goals, and complete regular progress reports.

As a high intensity course, students should expect regular research and development homework to supplement in-class builds and activities, although it may be possible to complete most tasks in class if time is managed effectively. **Prerequisite: Robotics 11 (Computer Programming 11 is an asset)**

LANGUAGE COURSE:

Core French 12 (FR 12) French 12 prepares students for post-secondary studies, while at the same time developing their skills in speaking, understanding, reading, and writing French. The program consists of five units, each comprising a wide variety of reading and listening activities. Students examine social issues as a context for advanced grammar. Oral communication is a strong component of French 12, with classes conducted in open-ended question format, debates, presentations, and role-playing. The reading sections are authentic and present students with materials they will encounter in post-secondary. Students are expected to possess knowledge of all the simple tenses, and most of the compound tenses. Currently, at UBC, French 12 fulfills the language requirement to receive a General Arts Degree. **Prerequisite: Core French 11- a 67% standing or better is recommended.**

MATHEMATICS COURSES

Please note: Students are asked to carefully make their mathematics decision before the start of the school year. The Course Change Policy impacts a student's ability to change mathematics pathways once the course has begun. Pre-calculus 12 is a rigorous course that is not meant to be "tried out". Once the school year begins it is very difficult to switch students from Pre-calculus 12 to Foundations of Mathematics 12 and students may be left unable to complete a mathematics 12 course. Students wondering if they should enroll in Pre-calculus 12 or Foundations of Mathematics 12 should speak with their current mathematics teacher.

The new course [Course Change Policy](#) puts into place clear timelines for students who want to change courses from their originally selected courses. The most significant change with this policy is that students will not be permitted to drop a course and enroll into a new course after the Thanksgiving day long weekend.

Calculus 12 (CALC 12) Calculus 12 is intended for students who plan to take a 1st year Calculus course as part of their post-secondary studies in disciplines such as business, economics, engineering, mathematics, and science. This course will preview most of the major topics taken in first-year Calculus. It is a great advantage for students to be familiar with the nature of the subject prior to heading to a post-secondary institution. Topics include Limits and Continuity, Derivatives and Differentiation Techniques, Functions and Graphs, Related Rates, Antiderivatives, Differential Equations, Area and Volume and Integration Methods. **Prerequisite: Pre-calculus Math 11 – an 80% standing or better is strongly recommended.**

**Pre-calculus is a co-requisite for Calculus 12. At STMC, students typically take these two courses concurrently*

Foundations of Mathematics 12 (FOM 12): This course is for university/college students heading to the arts **not** the sciences or business. If students are in the Foundations stream and plan to go to university as Arts students it is strongly **recommended** that they take Foundations of Mathematics 12. In fact, UBC Arts **requires** Foundations of Math 12 (Foundations of Math 11 is not enough.) ***The Foundations Math 12 mark might be able to be used to calculate entry GPAs at UBC but not for faculties requiring Pre-calculus 12.***

Prerequisite: Foundations of Mathematics 11 or Pre-calculus 11

The Foundations of Mathematics pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus, including most arts programs. Topics include financial mathematics, logical reasoning, relations and functions, and probability.

Pre-calculus 12 (PREC 12) The Pre-calculus pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus (e.g., science, business, or engineering). Topics include algebra, logarithms and their applications, relations and functions, trigonometry, and combinations. **Prerequisite: Pre-calculus Math 11- a 73% standing or better is strongly recommended.**

Computer Science 12 (MACS 12): This course is designed for dedicated students who are either looking for an accelerated computer science challenge or who are considering entry into a computer science university program. This CS12 course, focusing on the Java language, closely follows the CS12 AP (A) outcomes and most CS 1000-level university courses, prioritizing methodical understanding and precise computing over the development of larger projects. The final portion of the year is allocated to team development strategies and a practical project in a different language.

Students taking this course should be prepared to allocate regular time outside of class for homework and self-study; with an equal amount of time and effort, it is expected that a student would have a higher overall grade in Computer Programming 12 than in Computer Science 12. As a

Mathematics credit, a final CS12 grade may count differently towards post-secondary applications - please see an academic advisor for more information. **Prerequisite: Computer Programming 11**

SCIENCE COURSES

Anatomy & Physiology 12 (ATPH 12) Students who have a high mark in Chemistry 11 can bypass Life Sciences 11 with department-head permission. Anatomy and Physiology 12 focuses on cell and human biology, allowing you to develop an interest in and understanding of science by investigating how the human body systems are integrated to maintain homeostasis. The course initially examines cellular level biology with a focus on how biological molecules are important to the function of organelles. Most of the course is spent discussing systems and how they work together, including: circulation, respiratory, digestive, nervous, excretory, and reproductive systems. **Prerequisite: Life Science 11 (LFSC 11) - a 73% or higher standing is recommended**

Chemistry 12 (CH 12) This course is intended for students who seriously wish to pursue a science career in a post-secondary institution. **Prerequisite: Chemistry 11 - a 73% or higher standing is recommended**

Chemistry 12 includes five main Units. Unit 1 (Reaction Kinetics) discusses the rates of chemical reactions and the factors that affect them in terms of Collision Theory on both a qualitative and quantitative level. Industrial applications and implications of Reaction Kinetics are also presented. Unit 2 (Chemical Equilibrium) shifts from a focus of kinetics to thermodynamics with respect to reversible reactions and the phenomenon of chemical equilibrium. Le Chatelier's Principle is discussed in detail and the equilibrium constant "K_{eq}" is introduced along with a rigorous quantitative treatment of various types of K_{eq} problems. Industrial applications and implications of chemical equilibria are also presented. Unit 3 (Solubility Equilibrium) concentrates on aspects of the equilibria existing in saturated solutions on both a qualitative and quantitative level. The Solubility Product constant "K_{sp}" is introduced along with various types of K_{sp} problems. Applications of solubility equilibria for society, human health, and the environment are also presented. Unit 4 (Acids and Bases) introduces students to the concept of acid and base strength and the equilibria associated with weak acids and bases. A detailed qualitative and quantitative treatment of the topic includes problems involving K_a, K_b, pH, pOH, pK_a, pK_b, hydrolysis, buffer chemistry, and titrations. Unit 5 (Oxidation and Reduction) introduces students to the complementary processes of oxidation and reduction. A qualitative and quantitative discussion of the processes and the applications and implications of electrochemical and electrolytic cells for society, resource development, and the environment is covered.

Physics 12 (PH 12) Physics 12 is a key course for those anticipating going into sciences at the post-secondary level and builds on the concepts learned in Physics 11. Kinematics, Dynamics, Rotational Equilibrium, Momentum and Energy are explored in two dimensions in the first half of the year. The second half of the course focuses on electricity and magnetism. The course focuses equally on problem solving skills and conceptual understanding, with students urged to work cooperatively to strengthen their learning. **Prerequisite: Physics 11 (PH 11) – a 73% standing or better is recommended**

Specialized Science 12 (SPSC 12) ***Fulfills the basic science 11 requirement for graduation*** but is **not** an Admissions' GPA course for those aiming to pursue a career in the sciences at the post-secondary level but **can be used** as an Admissions GPA course for arts or humanities programs. **Prerequisite: Science 10 or with permission**

This course aims to help students develop the skills necessary to find accurate scientific information, use science in daily life, and effectively demonstrate their understanding using multiple means of representation. This course covers the foundations of anatomy, physiology, and biomechanics as they apply to sport and activities of daily living. Emphasis is on understanding and applying concepts of the musculoskeletal system with some concepts from cardiovascular, respiratory, and immune systems as they apply to emergency first aid. Students will complete a certification in First Aid with CPR C and AED.

SOCIAL STUDIES COURSES

20th Century World History 12 (WH 12)

Formerly known as History 12 this course covers significant historical events including major conflicts such as World War I, World War II, and the Cold War. Civil wars and the rise of authoritarian regimes will also be discussed. Furthermore, the impact of civil rights and women's rights plus the importance of economics will also be explored. This course will help students understand that events today have been greatly influenced by events of the past.

Law Studies 12 (LST 12)

This is a survey course intended to introduce students to the fundamentals of Canadian law procedure, civil law and family law and is a good option for those heading into the Arts.

The major component will be to analyze criminal law, civil law, and family. Students will grow to understand the need for laws and the importance of the Charter of rights and freedoms. They will also learn that with rights and freedoms comes responsibilities to act in a responsible manner and be good citizens of Canada.

Physical Geography 12 (PGEO 12)

As an ever-increasing world population puts increased demands on the planet's resources, there is a need for a society that can make informed decisions about the sustainability of the Earth's resources and the future of the planet. The geographically literate student can interpret the landscape and understand the interconnections between his or her actions and the Earth's physical systems. Students will have opportunities to analyze the critical interplay of culture, economics, politics, and social considerations when examining the relationship between people and the environment. Through the study of geography, students can develop an understanding of how local, regional, and global environments affect them, and allow them to make informed decisions and take appropriate action to manage the earth's resources in a responsible manner.

Social Justice 12 (SJ 12) /Genocide 12 (GENO 12) (Accelerated)

This accelerated **8 credit course** covers the learning outcomes of both Social Justice (SJ 12) and Genocide. *Social Justice 12* is a course which examines the causes, history, and solutions of various issues such as poverty, famine, hunger, war, AIDS, and homelessness through the lens of Catholic Social teaching. In *Genocide 12* the backgrounds, political motivations, methods, and international responses to genocides will be investigated throughout the course.

Economics 12 (EC 12)/ Economic Theory 12 (ECT 12) (Accelerated)

This **8 credit course** studies the economics of the modern world (stock markets, advertising, marketing, national and international business) and introduces students to the role that economics plays in our everyday lives. The course commences with a basic introduction to Economics as a social science and how we make economic decisions with the scarce resources that we have. The course is intended to have the students well prepared for an introductory course in Economics at university. In that regard, the next two major areas of focus in the course are Microeconomics as well as Macroeconomics. Microeconomics explores how individuals, households and firms make decisions with how they choose to allocate the resources that they have. Macroeconomics explores the behavior and performance of an economy. It explores wider economic areas such as unemployment, growth rate, gross domestic product, and inflation.

****Fulfills both the Social Studies requirement and the Applied Skills requirement for graduation)**

Additional Electives: These courses do add to a student's Breadth on a resume or the Personal Profile for post-secondary applications.

Leadership 12 (YCPA 12A) Students who take this course will dive into a variety of topics based around leadership. You will learn about your own personal values and qualities that define and guide you, discover how to work with others independently and find ways to deal with conflict and step out of your comfort zone!! This is a fun course that will help you develop new personal skills as you move away from high school and onto the next phase of your life. **Qualifies for 4 credits toward graduation, but the grade will not be used by post-secondary institutions to calculate GPA.** Additionally, this course does not meet the Ministry Graduation requirement for an Applied Skill.

NOTE: Psychology is a STMC approved course but it DOES NOT meet the Social Studies Graduation requirement.

Psychology 12: STMC will no longer be offering this as an AP course.

This course is designed to introduce students to the basic concepts and areas of study within the social science of Psychology. The course looks at the systematic and scientific study of the behavior and mental processes of human beings and other animals. It looks at how our thoughts, behaviors, and emotions affect how we develop through our lifespan.

Teacher Assistant This is something that students can apply for during the year and it looks good on a resume! Students must find a teacher willing to host them as a Teacher Assistant. *Students cannot select this option on Power School but must discuss this option with the Academic Counsellor.*

Frequently Asked Questions and Other things to consider:

The Facts about Core French 11:

- You do not need French 11 to graduate.
- You need French 11 to enter UBC or SFU directly from high school; UVIC no longer has the French 11 requirement.
- You can by-pass the French 11 university requirement by attending college first for 2 years
- To graduate from UBC Arts, you need French 12 or its university equivalent. This requirement is unique to UBC.

Do I have to take Life Sciences 11 (Bio 11) to take Anatomy & Physiology 12 (Bio 12)?

The STMC Science Department wants all students to take Life Sciences 11 if they plan to take Anatomy & Physiology 12 because it will benefit the student at the post-secondary level. **Exceptions can be made in consultation with the Department Head!**

Taking Chemistry 11 and Physics 11? A quick look at the program requirement charts shows that Chemistry 11 and Physics 11 are the courses typically required for most post-secondary science programs. However, these are tough courses. **A student should not choose those courses unless they have a specific program in mind. If you earn a low mark in those courses, having them on your transcript will not help you.**

Do students have to take all three Science 12's to get into science?

No! Serious science students, however, should try exposure to all 3 sciences. Physics 11 and Chemistry 11 are typically required for most science programs. However, if a student loves science, they can take all 3 if they want.

Do students need Calculus 12?

Calculus 12 is required by several science/university programs back east and some BC programs such as SFU Engineering. As academic counselors, we highly recommend Calculus for students entering sciences or business programs as this will help you succeed in your first-year mathematics courses. The failure rate for first-year Calculus courses is extremely high; you will benefit from exposure in grade 12. Alumni who are in sciences or business are thrilled that they took Calculus in high school.

Is college or trade school an appropriate option?

ABSOLUTELY! Since entry GPA at UBC and SFU are getting extremely high, students should have back up post-secondary options. Our local colleges and technical schools are a legitimate option. (Langara, Douglas College, BCIT, VCC or the Art Institute plus more) Many of these schools offer university transfer programs, diploma programs and a limited number of Bachelor degree options. Again, these schools have lower admission averages, smaller class sizes, lower drop-out rates of first year students and lower tuition costs.

NOTE: Recent studies at UBC and SFU have shown that college-transfer students perform well when they do transfer after first or second year. The entry GPA to get into university from college is lower than the high school average but it is based on the results earned only in post-secondary classes so while the GPA required is lower, it will be calculated on the higher-level college courses. Even with that in mind, college transfer is a very real option for many of our students.

Can I take courses at summer school or online?

Our new [External Course Policy](#) puts into place for the 2023-24 school year much clearer guidelines for students who want to take courses that are offered in the summer, outside of STMC, or online. The most significant change is that students will no longer be able to take courses that are required for graduation in British Columbia outside of STMC. STMC is committed to student success and excellence and we are also committed to students staying on track to graduate. While external courses can provide opportunities not offered at STMC, we have found that, in the context of our higher level and more specialized courses, they do not match the depth and breadth of what is offered.

For your action:

Please see the attached information slide show and linked video for more detailed information.

[External Course Policy Video Walkthrough](#)






Where can I look for information about post-secondary options?

[PostSecondaryBC](#) is an excellent site with information regarding:

- Narrowing down your areas of study and institutions
- Guides for students and parents (how to support your children in choosing, applying and transitioning to post-secondary institutions)
- Events, open houses, and information sessions
- Institution Directory

[Education Planner BC](#)

Education Planner BC helps learners make well informed decisions about their education and career options. Education Planner Video to see all that this site has to offer [Education Planner Tutorial](#)

PLAN YOUR EDUCATION EducationPlannerBC helps learners make well informed decisions about their education and career options. Use the Plan section to find articles and information about the different paths along the student journey.	 GET STARTED Planning For Success People Of Post-Secondary Glossary MORE TOPICS »	 APPLY Application Planning Transcripts After You Apply Registration MORE TOPICS »
 FINANCE Cost Of Education Financial Aid Scholarships And Bursaries Money Tips MORE TOPICS »	 STUDY Student Services Study Tips Co-Operative Programs Program Completion Planning Disability Services MORE TOPICS »	 WORK Job Search Resources Career Assessments International Students Career Centres & Alumni Services MORE TOPICS »

[BC Colleges](#)

Colleges are a great option as they tend to be smaller in size, offer more personal instruction, less expensive and allow for a smoother transition from high school to post-secondary institution. Most courses taken at a college level can be transferred directly into subsequent university programs.

[Trades and Apprenticeship Programs](#)

Industry Training Authority manages over 100 trades programs in BC, 49 of which are Red Seal. On this site, you will find information regarding:

- Apprenticeship programs
 - o Forms
 - o Grants
 - o Training hours
- Careers in trades/Top in-demand trades
- Youth in Trades
- Essential skills assessments to see if a trade is a good fit for you

SFU Admissions Policies:

SFU comprehensively evaluates your high school transcript by including all approved grade 11 **and** grade 12 courses in the evaluation. Greater emphasis will be placed on the List A courses, but, like UBC, SFU will evaluate all Grade 11 and 12 courses taken from their approved list.

IT IS MANDATORY THAT ANY SFU BOUND STUDENTS VISIT THE SITE THEMSELVES.

To be considered for admission to SFU, you must meet the general requirements, including the Basic English Language Requirement, the Quantitative and Analytical Skills Requirement and the Program-specific requirements.

Admission is based on an evaluation of **all approved Grade 11 and 12 courses**, with greater emphasis on List A courses.

General Requirements:

- Minimum of 5 approved Grade 12 courses (*Courses not included: career education; physical and health education; faith-based*)
- English Language:
 - Literary Studies 11
 - Minimum of 70% Grade 12 English Course
 - Students with an English Studies 12 grade of 75% or higher are admissible and eligible to register directly into **writing-intensive** (W) courses
- Second Language 11 (*You can apply for a waiver with approved documentation. See Academic Counselling*)
- Science 11
- A Science 12 or a Math 12
- Social Studies 12
- Quantitative (Math) Requirements: minimum grade of 60% in an approved grade 11 or 12 math course
- Second Language 12 or one additional course from [List A Approved Courses](#)

Additional Notes:

- If an Arts' student scores between 60% and 69% in Pre-calculus 11, Pre-calculus 12, or Foundations 12, they must register directly in **Foundations of Analytical and Quantitative Reasoning** (FAN X99), **OR** complete the SFU **Quantitative Placement Test** (Recommended to be taken in first term at SFU).
- If the Arts' student has scored over 70% in Pre-calculus 11, Pre-calculus 12, or Math Foundations 12 they have met the basic Quantitative Requirement. **Please note: The Math requirement is higher for some faculties like Sciences. Be sure to check the [SFU Admissions website](#).**
- SFU will remove **one grade 12** course from the evaluation if you present **six or more approved courses** as follows:
 - If you present six or more approved List A courses, SFU will remove the lowest, non-required List A courses
 - If you present five or fewer List A courses, your lowest List B course will be removed.
- AP courses may be used in place of an approved Grade 12 course to fulfill the admission requirements of List A and/or List B courses. [admission-requirements/advanced-placement](#)
- If you are taking distributed learning courses to meet your degree requirements, they must be complete by **June 30**

NOTE: if you are planning to attend Douglas College or Langara College and then transfer to SFU, consider applying for their dual partnership program if you meet the entrance requirements for both schools. You become a student of both institutions and can move freely and easily between both schools to complete your courses. [Admission requirements for partnership program](#)

NOTE: Here are some oddities to be aware of

1. Faculty of Applied Science –Engineering and Mechatronics requires these List A courses English Studies 12 (70%), Chemistry 12 (75%), Physics 12 (75%), Pre-calculus 12 (75%), Calculus **12 (70%)**

CALCULUS IS A NEW REQUIREMENT FOR SFU. Eastern schools have often had Calculus identified as a requirement for Engineering (and Business actually).

2. Faculty of Arts requires **one course** from the social science/humanities category within List A, in addition to the general requirements

UBC Admissions Policies:

- Minimum of 70% in Grade 11 or Grade 12 English and graduation from high school with a minimum GPA of 70%
- At least six academic/non-academic Grade 12 courses (Recommended, but not required)
- Core Courses:
 - o Second Language (grade 11 or above): We teach Core French at STMC, but other languages apply but it cannot be at the beginner level. A waiver can be given if, for example, the student has taken an LA Block in lieu of a language but official documentation from the Academic Counsellor must be provided.
 - o Math Credit: Pre-calculus 11, Foundations of Mathematics 12
 - o Science Credit: A Science 11 or any Science 12 course
- If you are taking distributed learning courses to meet your degree requirements, they must be complete by **June 30**.
- You must list all the high schools that you have attended; this includes any **online or distance learning** courses.
- Your personal profile is a crucial part of your UBC application.

In September 2019, UBC introduced a new, **integrated approach to their admissions process**. A big component of the process continues to be academics. UBC looks at those in 3 ways.

1. Admission requirements

While there is not a strict minimum number of courses, UBC recommends that if you are graduating from a Canadian secondary school, you should plan to present **six Grade 12 (senior level) academic or non-academic courses** (including Grade 12 courses taken in your Grade 11 or junior year). If you have fewer than the recommended number of senior-level courses, UBC will consider this on a case-by-case basis.

2. Overall academic assessment (all degrees)

No matter what degree you are applying to, UBC will broadly evaluate your academic history by looking at your grades in all academic Grade 11 (junior level) and Grade 12 (senior level) courses. **This does not include career education courses; physical and health education courses; or faith-based courses.** These courses, like Religion 12, count toward your Breadth but they will not look at your mark.

UBC will exclude the course that has your lowest grade – if the course is not a degree-specific requirement or relevant to your intended area of study at UBC.

3. Core academic assessment (degree-specific)

The faculty that you apply to will determine which courses UBC evaluates. UBC will look at your grades from all academic Grade 11 (junior level) and Grade 12 (senior level) courses that fall under **subject categories** related to the degree you applied to at UBC. If you present both Grade 11 (junior level) and Grade 12 (senior level) courses, UBC will focus on the higher level only.

4. Personal Profile **Admission is Based on More than Academics**

Students need to focus on their achievements beyond academics. The Personal Profile is a particularly important part of UBC's online application. It helps UBC assess whether you are prepared for university as the profile allows students to highlight your leadership qualities, community involvement, and what you've learned from your academic and extracurricular achievements.

For more information of how UBC evaluates your application, go to
[UBC ADMISSION EVALUATION](#)

UBC Admissions and STMC Courses

The following pages and charts represent a **snapshot of UBC's admissions policy from an academic perspective**. This snapshot has been adjusted to reflect STMC's course offerings.

To get detailed info, students should always **visit the specific post-secondary sites**. In UBC's case, students should visit . . . [UBC Vancouver General and Degree Specific Requirements](#)

The following link is also a valuable resource. It contains an informative video and a list of Faculties showing core subject areas. [How UBC Evaluates Your Application](#)

Core Courses at STMC

On the Charts which follow, you will see a sample of what core courses offered by STMC are required for specific programs/faculties. Other courses not listed as **core** will be looked at as BREADTH courses. The marks will not be used in any admissions calculations. **Students must read this in detail and always verify by visiting the links above! Please note, this is not a complete list of all programs available and students must research the specific requirements.**

Language Arts Category: English

Mathematics and Computation category

Pre-calculus; Calculus; Math Foundations 12, Computer Science

Notes: Foundations of Math 12 is not included in the assessment for any UBC program that has Pre-calculus 12 as a prerequisite for admission. While secondary school Calculus is not required for admission, the course is recognized to be rigorous and is recommended for students entering programs at UBC that require first year Math.

Visual and Performing Arts Category: Drama, Art Foundations, Choir, Band

Sciences Category: Life Science 11 and Anatomy and Physiology 12, Chemistry, Specialized Science 12 (*Not used in GPA Calculations*), Physics

Second Languages Category: Core French

Social Studies Category: Economics/Economic Theory (accelerated), Social Justice/Genocide12 (accelerated), Physical Geography, 20th century World History, Law Studies.

THE BREADTH ONLY COURSES

These courses add to your **overall picture** as a student and add to the total of six or more that UBC is looking for, but your mark in these courses will not be used in the admissions' calculations. However, that should not deter you from taking the course if it interests you. You can comment in your **Personal Profile** as to why you took the course. It adds to your **richness as a student**.

- Religion 12 is a pure BREADTH Course. It can count as one on six Grade 12 courses that UBC likes to see, but they will not look at the mark. This will appear as “Philosophy and Religion” on your transcript.
- Leadership 12 is a pure BREADTH course.
- Teacher Assistant is a pure BREADTH course and can be discussed in your Personal Profile
- Applied skills courses such as Robotics, Intro/Advanced Strength and Conditioning, Graphic Arts, Graphic Production, Media Arts, Music Composition and Production and Psychology will add to your **breadth** but your mark will not be added to your admissions’ calculation.

Additional Notes:

- **ARTS** Faculty views ALL Science courses like BREADTH courses. They will help you, but they will not be added to your admissions’ calculations. To make your application stronger, be sure to focus and highlight your Arts-related courses.
- **ENGINEERING and SCIENCE** Faculties view Social Studies courses like BREADTH courses. They want students focused on the Sciences.

UBC Degree-specific Requirements (Vancouver Campus)

Please note:

- The minimum column truly is the minimum. It allows students to be considered but they will not be competitive when stacked up against all UBC’s applicants.
- Remember UBC would like to see a minimum of 6 classes numbered 12 (academic and non-academic) to make your application more competitive. The majority of those should be **core** courses.
- It is a delicate balancing act. You do not want to take too many core courses and thereby lower your competitive average.
- You want to make sure you also continue to focus on developing your Personal Profile because that is an especially key component of the holistic admission process.
- It is no longer possible to find an easy path into UBC. They want their students to be well-rounded and well-prepared to enjoy success when they get on the campus!

UBC Degree-Specific Requirements

Program	Minimum Grade 11 and 12 requirements	Related Subject Core Course Categories
Applied Biology	English Studies 12, Pre-calculus 12 One of Anatomy & Physiology 12, Chemistry 12, or Physics 12 Literary Studies 11 and A second language 11 or waiver* Chemistry 11, Physics 11 and Pre-calculus 11 or Foundations of Mathematics 12	Language Arts Mathematics and Computation Sciences Social Studies
Applied Science (Engineering)	English Studies 12 Pre-calculus 12 & Chemistry 12 & Physics 12 Literary Studies 11 and A second language 11 or waiver* Pre-calculus 11 or Foundations of Mathematics 12 Chem. 11 and Physics 11	Language Arts Mathematics and Computation Sciences
Arts	Literary Studies 11, English Studies 12 A second language 11 or waiver* Pre-calculus 11 or Foundations of Mathematics 12 A Science 11 or any Science 12 course	Language Arts Mathematics and Computation Second Languages and Social Studies Visual and Performing Arts
Bachelor + Master of Management	You must apply and meet the degree-specific requirements for one of UBC Bachelor degrees *Additional application required to the UBC Sauder School of Business	Check UBC Website for details.
Commerce (UBC Sauder School of Business)	Literary Studies 11, English Studies 12, Pre-Calc. 12 A second language 11 or waiver* Pre-calculus 11 or Foundations of Mathematics 12 A Science 11 or any Science 12 course	Language Arts Mathematics and Computation (will consider Chem. and Phys. in this category) Social Studies (only Economics, Geography, Law, Psychology)
Dental Hygiene	English Studies 12 Anatomy and Physiology 12, Chemistry 12 Supplemental Interview process Literary Studies 11 and a second language 11 or waiver* Life Sciences 11, Chemistry 11 Pre-calculus 11 or Foundations of Mathematics 12	Language Arts Sciences
Fine Arts (direct-entry specializations only; excludes Creative Writing)	English Studies 12 Audition or portfolio Literary Studies 11 and a second language 11 or waiver* Pre-calculus 11 or Foundations of Mathematics 12 A Science 11 or any Science 12 course	Language Arts Social Studies Visual and Performing Arts
Food, Nutrition, and Health	English Studies 12 Pre-calculus 12 One of Anatomy and Physiology 12, Chemistry 12, or Physics 12 Literary Studies 11 and a second language 11 or waiver* Chemistry 11, Physics 11 Pre-calculus 11 or Foundations of Mathematics 12	Language Arts Mathematics and Computation Sciences Social Studies

Forestry; Forest Sciences; Natural Resources Conservation; Urban Forestry	English Studies 12 Pre-calculus 12 One of Biology 12, Chemistry 12, or Physics 12 Literary Studies 11 and a second language 11 or waiver* Chemistry 11, Life Sciences 11 (strongly recommended) Pre-calculus 11 or Foundations of Math 12	Language Arts Mathematics and Computation Sciences
Indigenous Teacher Education Program (NITEP)	English Studies 12 Literary Studies 11 A second language 11 or waiver* Pre-calculus 11 or Foundations of Math 12 A Science 11 or any Science 12 course	Check the UBC Website for details!
International Economics	English Studies 12 Pre-calculus 12 Literary Studies 11 A second language 11 or waiver* Pre-calculus 11 or Foundations of Math 12 A Science 11 or any Science 12 course	Language Arts Mathematics and Computation (will consider Chemistry and Physics in this category) Social Studies (only Economics, Geography, Law, Psychology)
Kinesiology	Literary Studies 11, English Studies 12 One of Pre-Calc. 12, Anatomy and Physiology 12, Chemistry 12, Physics 12 A second language 11 or waiver* Pre-calculus 11 or Foundations of Math 12 A Science 11 or any Science 12 course	Language Arts Mathematics and Computation Sciences Social Studies
Media Studies	English Studies 12 One of Geography 12, History 12, or English Lit 12 Portfolio submission Literary Studies 11, A second language 11 or waiver* Pre-calculus 11 or Foundations of Math 12 Pre-calculus 12 is strongly recommended A Science 11 or any Science 12 course	Language Arts Mathematics and Computation Social Studies Visual and Performing Arts
Music	English Studies 12 Audition, portfolio (students in composition), and letters of reference Literary Studies 11 and A second language 11 or waiver* Pre-calculus 11 or Foundations of Mathematics 12 A Science 11 or any Science 12 course	Language Arts Second Languages Visual and Performing Arts
Science	English Studies 12 Pre-calculus 12 (minimum 67%) One of Anatomy and Physiology 12, Chemistry 12, or Physics 12 Literary Studies 11 and A second language 11 or waiver* Chemistry 11, Physics 11 and Pre-calculus 11 or Foundations of Math 12	Language Arts Mathematics and Computation Sciences
Wood Products Processing	English Studies 12 Pre-calculus 12 One of Anatomy and Physiology 12, Chemistry 12, or Physics 12 Literary Studies 11 and A second language 11 or waiver* Chemistry 11, Physics 11 (strongly recommended) Pre-calculus 11 or Foundations of Math 12	Language Arts Mathematics and Computation Sciences