

# ***Porter Creek Secondary School***

N''tsaÜw Chu' Kedts'edán Kù  
Learning House at Wild Rhubarb Creek



## **Course Catalogue**

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*We respectfully acknowledge that we work and learn  
on the traditional territory of the people of  
Kwanlin Dün First Nation and the Ta'an Kwäch'än Council.*

*This coursebook is designed to outline available courses at PCSS and graduation requirements for students pursuing Dogwood graduation. Students pursuing Adult Graduation or Evergreen certificates will have discussed this with their counselor or case manager, and should connect with them if additional guidance around course selection is needed.*

# ***Applied Design, Skills, and Technologies***

## **GRADE 9**

*Students in Grade 9 register for Grade 10 elective courses and earn credits toward graduation requirements.*

## **GRADE 10**

### ***Aesthetics 10***

Aesthetics 10 is designed to provide students with introductory knowledge surrounding skills in aesthetics. They will learn to perform basic services found in salons. Students will develop their interpersonal skills in communication. They will learn to provide these services safely. The goal of this course is to have students develop their skills with services related to aesthetics. Students will practice what they have learned and build background knowledge in personal wellness.

### ***Computer Studies 10***

Computer Studies 10 is an introduction to key aspects of computer hardware and software, troubleshooting, programming, and digital literacy.

### ***Electronics and Robotics 10***

Electronics and Robotics 10 is an ADST course and an introduction to electronics related to robotics, including production of simple circuits, elements of programming, and use of diagnostic and testing equipment.

### ***Food Studies 10***

Food Studies 10 is dedicated to preparation of a variety of different foods for sale in the cafeteria. Throughout the semester, students will learn a number of culinary skills, such as baking and meal planning. Each day the cafeteria serves a variety of items with a rotating menu. Students participate in making

this food, as well as bring their own ideas to the kitchen. Given the wide array of equipment available, students are encouraged to bring recipes to the cafeteria and experiment. Students also get certified in Food Safe level 1 from Environmental Health.

### ***Hairstyling 10***

This course explores fundamental hairstyling knowledge and skills required to provide basic styling needs for a client. Students will explore the elements of hair design. They will work to develop their communication skills in a professional setting. Students will demonstrate an understanding of hairstyling methodology, and will apply and develop their skills by learning through immersive practice. Students will learn how to communicate, behave and perform tasks as a professional hairstylist in a safe and sanitary way.

### ***Metalwork 10***

Metalwork 10 focuses on design and production of complex projects. Learning includes metalwork techniques and effective and safe use of materials, tools and equipment.

### ***Power Technology 10***

Power Technology 10 focuses on power and energy transfer systems. Learning includes automotive systems, assembly and disassembly, energy transmission, and alternative energy sources.

### ***Textiles 10***

Textiles 10 focuses on basic techniques for textile creation and altering of patterns, including design principles, First Peoples traditional and current textile knowledge and practices, and environmental and ethical considerations of textile choices.

### ***Woodcraft 10***

This course is similar in theory and context to Woodwork 10-12 courses, however, it focuses more on student creativity, personalization, and customization of projects. It allows students the freedom to express themselves and interests through the woodworking processes. Students may use traditional art, techniques, and ideation to inspire their creative side. Possible student projects are endless within student skillsets and imagination.

### ***Woodwork 10***

Woodwork 10 focuses on design and production of complex projects using both portable and stationary tools. Learning includes historical and cultural influences on woodworking practices.

## **GRADE 11**

### ***Aesthetics 11***

Aesthetics 11 is designed to provide students with intermediate level knowledge surrounding skills in aesthetics. They will learn to perform intermediate services found in salons. Students will develop their interpersonal skills in communication. They will learn to provide these services safely. The goal of this course is to have students advance their hands on skills. Students will practice what they have learned and build background knowledge in personal wellness and communication.

### ***Computer Programming 11***

This course is an introduction to complex computer programming with a focus on the study and modification of existing code and formalization of computational thinking concepts.

### ***Food Studies 11***

In Food Studies 11, students work through a

number of different units while learning about a variety of cooking techniques. Units include, but are not limited to, breakfast items, desserts, international foods, and appetizers. Students are encouraged to bring recipe ideas to the kitchen, and also take turns teaching a cooking lesson to fellow classmates. Food that the students prepare is eaten, taken home, or shared with others.

### ***Hairstyling 11***

Hairstyling 11 provides students with an extension of the Hairstyling 10 fundamental knowledge and skills required to provide basic styling needs for a client. Students will explore the elements of hair design. They will work to develop their communication skills in a professional setting.

### ***Metalwork 11***

This course focuses on simple metalworking and design projects. Learning includes welding and cutting, qualities of metals and alloys, fastening methods, and use of stationary equipment.

### ***Robotics 11***

This course introduces simple robotics design and production, and related technical and programming elements. Learning includes interactions of subsystems, logic, mechanics, and components.

### ***Textiles 11***

This course focuses on simple textile design and creation, techniques in pattern modification, and repurposing of textile items. Learning includes the principles of design and textile functionality, use of symbolism in textile prints, and the economical and ethical factors involved in textile production, marketing, and consumption.

### ***Woodcraft 11***

This course is similar in theory and context to Woodwork 10-12 courses, however, it focuses more on student creativity, personalization, and customization of projects. It allows students the freedom to express themselves and interests through the woodworking processes. Students may use traditional art, techniques, and ideation to inspire their creative side. Possible student projects are endless within student skillsets and imagination.

### ***Woodwork 11***

This course focuses on simple design and construction of woodwork projects. Learning includes generating drawings, preparing materials, use of hand tools and stationary power equipment, problem-solving techniques, and finishing methods.

## **GRADE 12**

### ***Aesthetics 12***

Aesthetics 12 is designed to provide students with advanced knowledge surrounding skills in aesthetics. They will learn to perform advanced services found in salons. Students will develop their interpersonal skills in communication. They will learn to provide these services safely. Students will work on developing their understanding of the salon business and practice those skills. Students will complete their semester by running a salon for a minimum of two weeks at the end of the semester.

### ***Computer Programming 12***

This course focuses on the development and documentation of advanced programming structures using the processes and workflows of programming professionals.

### ***Digital Media Development 12***

This course focuses on design with 2D, 3D, audio, and video digital media tools and techniques, including methods and principles of 3D graphic design and desktop video production.

### ***Food Studies 12***

In Food Studies 12, students work through a number of different units while learning about a variety of cooking techniques. Units include, but are not limited to, breakfast items, desserts, international foods, and appetizers. Students are encouraged to bring recipe ideas to the kitchen, and also take turns teaching a cooking lesson to fellow classmates. Food that the students prepare is eaten, taken home, or shared with others.

### ***Hairstyling 12***

Hairstyling 12 provides students with an extension of the Hairstyling 11 developmental knowledge and skills. It provides students with an opportunity to further build their knowledge and skills, and to be able to provide more advanced styling needs for a client. Students will explore and deepen their understanding of the elements of hair design. They will work to develop their communication skills in a professional setting.

### ***Metalwork 12***

This course focuses on advanced design, processes, and methods employed in metalwork projects. Learning includes finishing processes; casting methods; operation, maintenance, and adjustment of stationary powered and non-powered equipment; and areas of metal specialization. Students also explore career opportunities in this field and interpersonal and consultation skills related to client interactions.

***Robotics 12***

This course focuses on advanced design, documentation, power and electronics, and applications of robotics technologies. Learning includes wiring, sensors, power management, and programming language. Students also explore emerging career opportunities in this field and interpersonal and consultation skills related to client interactions.

***Textiles 12***

This course focuses on design and creation of complex textile items, methods for developing patterns, and textile manipulation techniques. Learning includes First Peoples historical and current textile knowledge and practices, the design for the life cycle of textile products and its environmental impacts, and career opportunities in textile design, production, and distribution.

***Woodcraft 12***

This course is similar in theory and context to Woodwork 10-12 courses, however, it focuses more on student creativity, personalization, and customization of projects. It allows students the freedom to express themselves and interests through the woodworking processes. Students may use traditional art, techniques, and ideation to inspire their creative side. Possible student projects are endless within student skillsets and imagination.

***Woodwork 12***

This course focuses on advanced design and techniques in plan development, selection of materials, and joinery techniques. Learning includes tool servicing, purpose and application of finish, and building code related to carpentry. Students also explore career opportunities in woodworking contexts and interpersonal and consultation skills related to client interactions.

### ***Senior Automotives Off-Site:***

Students interested in automotive studies can enroll in the program held at FH Collins. Semester 1, students complete *Automotive Technology 11 and 12* in the morning and return to Porter Creek for their afternoon classes. Students can take the program for a second time and complete *Electronics 12* and *Engine and Drivetrain 12* in the morning, and return to Porter Creek for their afternoon classes.

#### ***Automotive Technology 11***

This course is an introduction to automotive systems and complex energy transfer systems. Learning includes vehicle systems, automotive tools, fundamentals of engine operation, and simple methods of repair and maintenance.

#### ***Automotive Technology 12***

This course focuses on advanced concepts in automotive technologies, including mechanical systems, inspection and diagnostic methods, and serviceability, overhaul, and repair. Students also learn about career opportunities and interpersonal skills related to customer interactions.

#### ***Electronics 12***

This course focuses on technical elements of electronics and circuit design and construction used in analog and digital systems in automotive vehicles. Students also explore career opportunities and interpersonal skills related to client interactions.

#### ***Engine and Drivetrain 12***

This course addresses engine design, maintenance, and repair, focusing on the series of related engine and drivetrain systems. Learning includes engine performance, enhancement, diagnostics, and hybrid and alternative fuel vehicles. Students also explore career opportunities in this field and interpersonal skills related to client interaction.

# Arts

## GRADE 9

*Students in Grade 9 register for Grade 10 elective courses and earn credits toward graduation requirements.*

## GRADE 10

### ***Art Studio 10***

Students will work in a variety of media to improve their skills and visual literacy. The major component of this course will consist of exploring and experimenting with a wide variety of art making materials. Students will also gain an appreciation and knowledge of the elements and principles of design. Students will apply artistic processes and skills, using a variety of media to communicate meaning and intent in original artworks.

### ***Drama 10***

Drama 10 focuses on forms and conventions for drama and theatre, as well as dramatic arts from various cultures. Students engage individually and collaboratively with forms and conventions of both drama and theatre. Students explore dramatic arts from various cultures, and analyze how the knowledge and skills developed in drama are related to understanding their personal and cultural connections.

***Instrumental Music 10:*** Includes Concert Band 10, Orchestra 10, Jazz Band 10, Guitar 10. Concert band 10 focuses on large ensemble, small ensemble, and individual instrumental music study on brass, woodwind, percussion, string, and keyboard instruments. Learning is within the concert band idiom and includes a varied repertoire of music for study and performance.

## GRADE 11

### ***Art Studio 11***

This class will develop skills learned in previous art courses. Students will review design, drawing, painting, printmaking, and three-dimensional work. Personal growth will be encouraged through development of individual portfolio images. These may include a variety of media best suited for your personal imagery.

The course mostly focuses on two-dimensional applications (such as drawing, painting, printmaking, graphic design, multi-media and media arts). 3-D components of the course include ceramics, sculpture and form-slumping. Imagery, historical and contemporary development and reasoned criticism will be applied to projects where applicable.

### ***Drama 11***

Students develop dramatic skills individually and collaboratively using forms and conventions of both drama and theatre to gain a deeper understanding of themselves, and the world.

***Instrumental Music 11:*** Includes Concert Band 11, Orchestra 11, Jazz Band 11, Guitar 11. Large ensemble, small ensemble, and individual instrumental music study on brass, woodwind, percussion, string, and keyboard instruments. Learning is within the concert band idiom, includes a varied repertoire of music for study and performance, and draws awareness to careers in music.



## **GRADE 12**

### ***Art Studio 12***

This class will develop skills learned in previous art courses. Students will review design, drawing, painting, printmaking, and three-dimensional work. Personal growth will be encouraged through development of individual portfolio images. These may include a variety of media best suited for your personal imagery.

The course mostly focuses on two-dimensional applications (such as drawing, painting, printmaking, graphic design, multi-media and media arts). 3-D components of the course include ceramics, sculpture and form-slumping. Imagery, historical and contemporary development and reasoned criticism will be applied to projects where applicable.

### ***Drama 12***

Students refine dramatic skills individually and collaboratively using forms and conventions of both drama and theatre. Students explore dramatic arts from various cultures, and analyse how the knowledge and skills developed in drama are related to understanding their personal skills, social awareness, and goals beyond secondary school.

### ***Graphic Arts 12***

Graphic Arts 12 focuses on designing, constructing, editing and processing images for the purpose of Screen Printing, digital graphic rendering, and other artistic applications. Students will take a major role in the production of screen prints for various purposes within our school community. Students will also receive opportunities to produce their own textiles throughout the

course.

Through understanding the core elements of graphic design and the screen-printing industry, students will work with important software and technology, and work as team members to take on jobs within our school community to produce t-shirts, hoodies and other textiles. Our aim is to learn and create a real work experience, establishing a working environment that is effective, efficient, productive, and fun! There will also be opportunities to explore various professional workspaces linked to graphic design within our community.

Working with clients in our school means working with them to develop the right design based on their wants and needs for the purpose of the print. Our cost-benefit analysis reflects that we can offer a sustainable screen printing program that lessens the cost of textiles to our school clubs and programs (who want shirts printed), meanwhile offering our students a highly valuable and creative experience and instilling within them a strong understanding of digital tools for graphic design and a multitude of other interpersonal skills from the working environment we hope to create.

***Instrumental Music 12:*** Includes Concert Band 12, Orchestra 12, Jazz Band 12, Guitar 12. Large ensemble, small ensemble, and individual instrumental music study on brass, woodwind, percussion, string, and keyboard instruments. Learning is within the concert band idiom, includes a varied repertoire of music for study and performance, and focuses on connecting music with community and post-graduation life.

# ***Career Education***

## **GRADE 10**

### ***Career-Life Education***

Career-Life Education 10 is a one-semester course that is mandatory for graduation. This course is designed to equip students with skills they will need to succeed and adapt in a changing world. Students engage in ongoing reflection about their existing interests and skills and prepare for their futures through occupation research, goal setting, financial planning, conflict resolution, job seeking skills, mentorship, and the development of strategies for work/life balance and responsible management of their online presence. Career-Life Education 10 is a very interactive class that includes practical assignments and many guest presenters.

## **GRADE 12**

### ***Career-Life Connections***

Career-Life Connections 12 is a full-year course that is mandatory for graduation. This course takes place outside of regular class time and includes practical assignments as well as individual meetings to support students in preparation for leaving high school. Students complete 30 hours of work and/or volunteer experience during the school year as well as a major Capstone project.

### ***Work Experience 12***

This course provides an opportunity for students to gain real-world experience in a career they are interested in exploring. This is a unique opportunity to make local connections and to be mentored by a professional, and it provides students with career-based skills and knowledge. It can also help students decide if a particular career is a good fit for them. The course involves an in-school component to prepare for a placement, a 90-hour work placement, and a final project.

# ***English Language Arts***

## **GRADE 9**

### ***English 9***

Using oral, written, visual and digital texts, students are expected individually and collaboratively to be able to: comprehend and connect texts while creating and communicating to demonstrate their learning. Students will explore a wide range of texts and media, while learning about language structures, devices and conventions. Students will practice the skills of: reading, listening, viewing, writing, speaking and representing. By the end of the course, students will need to demonstrate that they read, analyze and synthesize texts, that they have strategies for reading, thinking, writing and speaking.

## **GRADE 10**

**To fulfill the Language Arts 10 requirement for graduation all PCSS students will take 2 credits of English 10 Literary Studies and then their choice to pair it with 2 credits of Composition or 2 credits of New Media. The 2 courses will occur simultaneously in one semester with the same teacher in one scheduled period.**

### ***Composition 10***

Composition 10 is designed to support students in their development of written communication through a critical process of questioning, exploring, and sampling. Within a supportive community of writers, students will work individually and collaboratively to explore and create coherent, purposeful compositions. Students will read and study compositions by other writers and consider a variety of styles as models for the development of their writing.

The course builds students' writing competencies by introducing them to varied structures, forms, and styles of compositions. Students have opportunities to individually and collaboratively study, create, and write original pieces, exploring audience and purpose. They also develop their craft through processes of drafting, reflecting, and revising.

### ***Literary Studies 10***

Literary Studies 10 is designed for students who are interested in the literature of a particular era, geographical area, or theme, or in the study of literature in general. The course allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media. Giving students the choice of a range of literary topics allows them to follow their passion and at the same time: - increase their literacy skills through close reading of appropriately challenging texts - enhance their development of the English Language Arts curricular competencies, both expressive and receptive - expand their development as educated global citizens - develop balance and broaden their understanding of themselves and the world - develop higher-level thinking and learning skills.

### ***New Media 10***

New Media 10 is a program of studies designed to reflect the changing role of technology in today's society and the increasing importance of digital media in communicating and exchanging ideas. This course is intended to allow students and educators the flexibility to develop a program of study centred on student interests, needs, and abilities, while at the same time allowing for a range of local delivery

methods. New Media 10 recognizes that digital literacy is an essential characteristic of the educated citizen. Coursework is aimed at providing students with a set of skills vital for success in an increasingly complex digital world by affording opportunities to demonstrate understanding and communicate ideas through a variety of digital and print media. New Media 10 explores tasks and texts designed to introduce students to the study of new media.

## **GRADE 11**

### **All GRADE 11 English classes in Whitehorse High Schools are EFP (English First Peoples)**

#### ***English First Peoples: Literary Studies & New Media 11***

Throughout "EFP Literary Studies + New Media 11", students will challenge their understanding of multimodal texts. Together we will explore the social, cultural, geographical and historical experiences of authors that influence their creations. Through research, novel studies, films and podcasts we will consider the various experiences of First Peoples. During our time together, we will work on understanding how our experiences shape our perceptions and in turn affect our understanding. Using examples provided and personal reflection, students will appreciate the power of language as a vehicle for social change. Students will display their understanding through oral presentations, visual multimedia projects, and formal writing throughout the course.

#### ***English First Peoples: Literary Studies & Writing 11***

This course is designed for students who are interested in studying First Peoples literature and using writing for self-expression and communication in a variety of contexts. Students delve deeply into First Peoples oral and written literature in a range of media to explore various themes, authors, and topics. This provides a foundation for them to think critically and creatively as they continue to explore, extend, and strengthen their own writing. Within a supportive community, students work individually and collaboratively to explore oral and written literature and create powerful, purposeful compositions. Through the study of literature and the processes of experimenting with, reflecting on, extending, and refining their writing, students: - extend their capacity to communicate effectively in a variety of contexts, - deepen their understanding of themselves and the world, - expand their understanding of what it means to be educated Canadian and global citizens.

## **GRADE 12**

#### ***Creative Writing 12***

This course is an exploration of craft and imagination. Students use a workshop approach to hone their literary talents and create a range of works in a supportive and collaborative setting. Literary categories and forms that could be explored in the course include, but are not limited to, adventure, fairy tale, fantasy, thriller, short story, novella, children's book, and poetry. The course is re-designed each year to reflect the interests of the students. For example, previous students expressed a desire to write short stories with a focus on thrillers, so a large portion of the course was devoted to studying techniques and writing thriller short stories.

### ***English Studies 12***

In this course students continue to develop their reading, writing, thinking, speaking and collaborating skills with emphasis on both technical and literary skills. The course is organized into thematic units each culminating in a summative assignment or project. There is much opportunity for student choice within the units of study to increase student engagement and relevance. Students read, analyze and evaluate the effectiveness of a variety of texts,

including speeches and editorials. Preparation for the Literacy 12 Assessment, which is required for graduation, involves a review of test-taking strategies and students write an argumentative essay as well as an original composition in the format of their choice. On-going throughout the course is the development of a sophisticated communication style through building vocabulary and strengthening grammar skills.

# ***Experiential Learning Programs***

## ***FADS 10, 11, 12: Fashion, Art & Design School***

Fashion, Art, Design School is a creative, experiential program that provides an opportunity for students in Grades 10, 11 and 12 to explore the complex and detailed world of fashion design and garment construction. In this one semester program, students will learn how to draw fashion illustrations, create design boards, draft and alter patterns, create a garment collection and produce a fashion show.

Throughout the semester, students will learn different types of art that may include: felting, knitting, embroidery, silk painting, screen printing, pottery, sculpture, painting. Students have the opportunity to collaborate with one another while exploring the creative process.

By the end of this course, students will be able to use industrial and/or domestic sewing machines, gain an understanding of both pattern cutting and garment construction, develop design skills and knowledge of textile fabrics. While incorporating the elements and principles of design, they will produce their own unique body of work suitable for a post secondary application.

Students completing this course will receive 16 credits towards graduation. This experiential program gives students the opportunity to receive 4 extra credits per semester.

### ***Included Credits:***

Studio Arts: Fabric and Fibre - 4 credits

Visual Arts - 4 credits

Textiles - 4 credits

Social Studies - 4 credits

+Academic course (outside of FADS) - 4 credits

## ***LEAD 8/9: Leadership Education & Athletic Development - Hockey Canada Skills Academy***

This is an all afternoon program that offers students a formal hockey and leadership training program within the academic setting to allow for achievement and excellence in sport education. Students are enrolled in their PE 8 or 9 courses in this program.

## ***LEAD 10, 11, 12: Leadership Education & Athletic Development***

The purpose of the LEAD 10-12 Leadership Education and Athlete Development program is to encourage Porter Creek Secondary Students to participate in a combination of active living, wellness, leadership and the essential streams of strength and conditioning. Along with the physical aspect, this program will also offer modern, interactive, educational seminars on topics necessary for them to be life-long learners in the field of health and physical education, and guest speakers specific to those topics. Aspects of First Nations traditional games and culture will also be examined in relation to the strength and conditioning component. This program not only caters to the student looking to maximize his or her training efficiency, but also engages students looking to maximize their potential both athletically and academically through health and wellness. Courses include: Physical Education 10, Fitness and Conditioning 11 or 12, Active Living 11 or 12.

### ***SASE 9: Socials and Science Experiential***

SASE 9 is a one semester integrated experiential program of study. Students earn credit for the following courses: Social Studies 9, Science 9, Outdoor Education/Field Studies 9, Physical Education 9. During the alternate semester of the Grade 9 year, students take the following courses: Second Language 9, Math 9, English 9, and an Elective.

The program is designed to challenge students academically, physically, and personally. Particular emphasis is placed on character development through challenge and diversity of experience. Students are exposed to a wide variety of outdoor activities and professionals in a diversity of fields. Positive mentoring, “big picture” connections, and stewardship are focusses of this program as students develop character and personal strength through challenge and experience. Active living and positive life skills are emphasized as students gain a heightened awareness of nutrition, health, and fitness choices.

Due to the nature of the program, time devoted each day to a particular subject area will vary and we will seldom follow the regular PCSS bell schedule. Some trips will take place on weekends. Students must be flexible and willing to work hard in a variety of learning

structures. There will be at least 5 extended outdoor pursuit trips over the course of the semester. These trips will range from 2 to 8 days in length.

### ***WILD 11/12: Wilderness Initiatives for Leadership Development***

Wilderness Initiatives for Leadership Development (WILD) is a senior-level outdoor education course designed to promote student engagement through experiential and project-based learning. WILD integrates Environmental Science 12, Physical Geography 12, Outdoor Education 12, and Career Life Connections 12.

Throughout the semester, students will participate in Wilderness Advanced First Aid, Snowmobile Safety Course, Avalanche Safety Training, and River Rescue courses. The students will partake on a backcountry trail-based snowmobile trip, avalanche awareness and snowmobile safety trip, and a student planned river expedition. Students will be expected to take the initiative and become an integral part of the planning and leadership component of their trips. The program is designed to prepare students with the skills to become more competent leaders in the adventure recreation and tourism industry. These skills are transferable to any outdoor-based occupation.

# Languages

## GRADE 9

### ***French 9***

Students will acquire and develop an understanding of French through this course based on a communicative approach to language learning. Students will develop language skills in listening, speaking, reading and writing. Through Francophone creative works, stories and meaningful conversations, students will explore Francophone cultures as well as their own cultural identity.

### ***French Café***

The “French Café” is a daily experiential program combining French 9 and Foods 10 in a French immersion setting. Students will learn and speak French while cooking, baking, serving food, creating menus, and experiencing the local and international French food culture. Food is so important to the French that it is part of many French countries’ curriculum. Now it can be part of yours!

*\*This course is offered on the basis of enrollment numbers.*

### ***Southern Tutchone 9***

Southern Tutchone 9 is an introductory course. Emphasis will be placed on listening, comprehension, oral participation and extending vocabulary in Southern Tutchone.

## GRADE 10

### ***French 10***

Oral communication is the main goal in French 10. Students will learn specific French structures that will support their oral and written communication skills. They will also explore cultural expressions to help them

express their opinions, descriptions and reflections in the past and present tenses. They will also learn how to accord adjectives to noun gender and number. Students will read level-appropriate texts to help support their learning of thematic vocabulary and sentence structures.

### ***Southern Tutchone 10***

Southern Tutchone 10 places emphasis on listening, comprehension, oral participation, cultural history and knowledge, and extending vocabulary in Southern Tutchone.

## GRADE 11

### ***French 11***

Oral communication is the main goal in French 11. Students will learn specific French structures that will support their oral and written communication skills. They will also explore cultural expressions and, in turn, express their own opinions, descriptions and reflections in the past, present and future tenses. Students will read level-appropriate texts to help support their learning of thematic vocabulary and sentence structures.

### ***Southern Tutchone 11***

This intermediate course in Southern Tutchone focuses on more advanced conversational skills based in cultural activities. Students will also study the history of Southern Tutchone and other Yukon First Nations groups through readings, field trips and presentations by guest speakers.



## **GRADE 12**

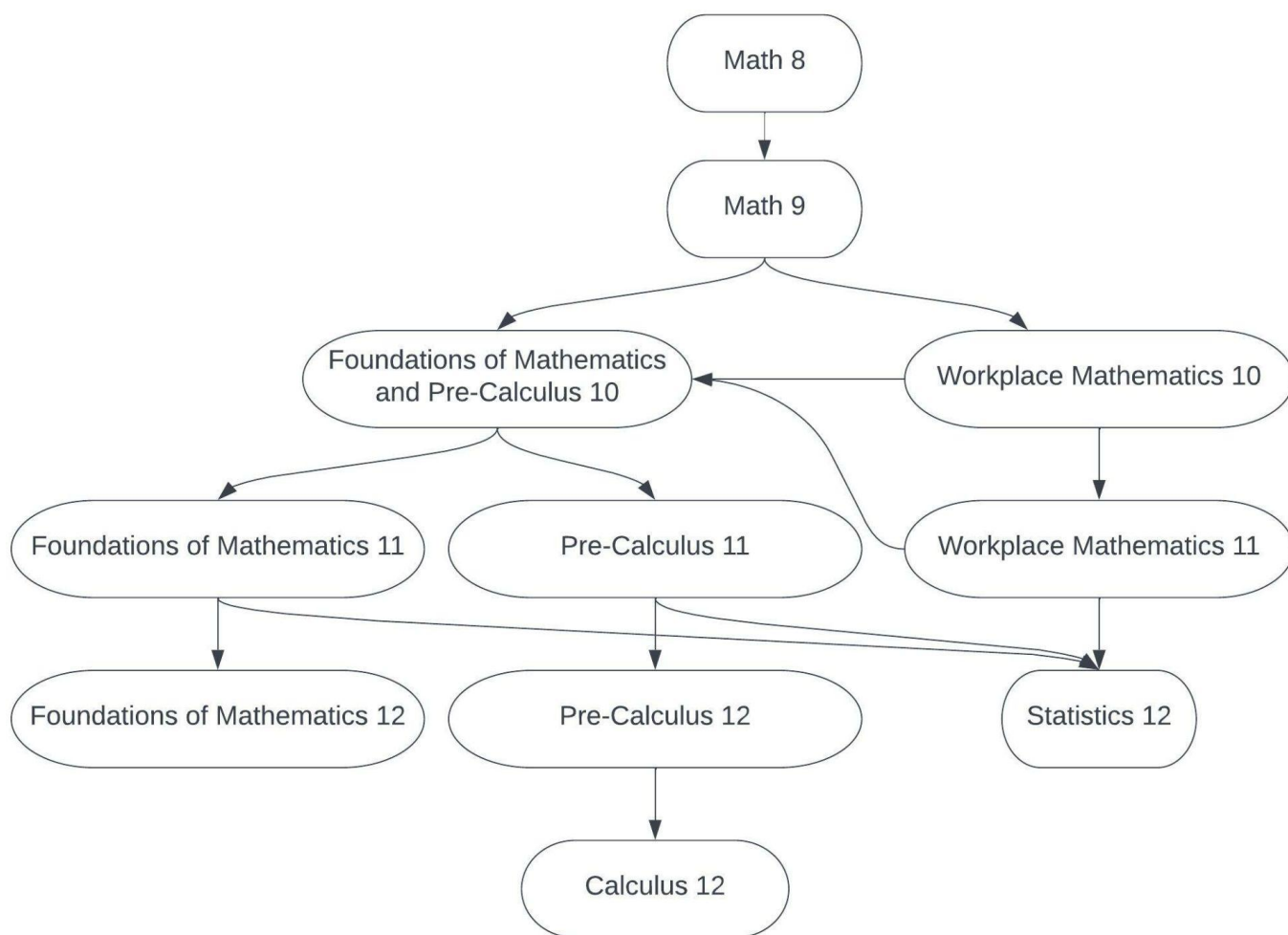
### ***French 12***

Oral communication is the main goal in French 12. Students will learn specific French structures that will support their oral and written communication skills. They will also explore cultural expressions to help them describe their opinions and reflections in the past, present, future and conditional tenses. They will also review how to accord adjectives and verbs to nouns, gender and number. Students will read level-appropriate texts to help support their learning of thematic vocabulary and sentence structures.

### ***Southern Tutchone 12***

This senior course in Southern Tutchone focuses on more advanced conversational skills based in cultural activities. Exploring the writing system of Southern Tutchone and mastering basic conversational patterns are key components of this course. Students will also study the history of Southern Tutchone and other Yukon First Nations groups through readings, field trips and presentations by guest speakers.

# ***Mathematics***



Every student must have a credit for Math 10 and Math 11 to meet graduation requirements.

Both Math 10 courses and all Math 11 courses meet these requirements.

Pre-Calculus 11 and 12 are recommended for Chemistry 12 & Physics 12.

Please note the Provincial Graduation Numeracy Assessment should be written in grade 10, can be re-written up to a maximum of three times, and is a requirement for graduation.

## **GRADE 9**

### ***Mathematics 9***

Mathematics 9 is a course designed to prepare students for graduation level mathematics. Curricular content includes operations with rational numbers, exponents, operations with

polynomials, two-variable linear relations, multi-step one variable linear relations, graphing interpolation, extrapolation, spatial proportional reasoning, statistics and financial literacy. A scientific calculator is required for this course.

### ***Linear Mathematics 9***

This course will meet once a day for the entire semester. It covers the entire Math 9 curriculum over a longer period of time with the intent of helping students to grasp all of the content to prepare them for math at the Grade 10 level. The description of course content is the same as Math 9 that is found on this page. This course will only be offered if there is sufficient interest from students.

## **GRADE 10**

### ***Foundations of Mathematics and Pre-Calculus 10***

The goal of this course is to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies. The content students are expected to know upon completing the course is algebra, powers and polynomials, linear relations, trigonometry, and financial literacy. The curricular competencies that students are expected to do are reasoning and modelling, understanding and solving, connecting and reflecting, and communicating and representing. After successful completion of the Foundations of Mathematics and Pre-Calculus 10 course, students can choose to take, Foundations of Mathematics 11 (if the student is planning to take a post-secondary program that does not require the study of theoretical Calculus) or Pre-calculus 11 (if the student is planning to take a post-secondary program that requires the study of theoretical Calculus).

### ***Workplace Mathematics 10***

Workplace Mathematics 10 is designed to provide students with an introduction to the mathematical understandings and competencies identified for entry into the workforce. Curricular content includes graphing, trigonometric ratios, geometry,

measurement, central tendency, experimental probability, and financial literacy. Curricular competencies such as estimating, visualizing, modelling, use of technology and communicating are experienced through the mathematical curricular content.

### ***Linear Mathematics 10***

Linear Math 10 is a full year Math course that meets every day for one period in the school year. Students will have the opportunity to earn 8 total credits for both Grade 10 math courses (Workplace and Foundations & Pre-Calculus). The first semester of the course will focus on Workplace 10 content in addition to content that is similar to both courses. The semester 2 portion will focus on Pre-Calculus 10. If a student was unable to finish the semester 1 content they can continue to work on this in semester 2 and not complete the Foundations and Pre-Calculus credits. This course is ideal for the Grade 9 student who is unsure of which Math 10 course to take or for the student who may need to take the full school year to complete Workplace Math 10.

## **GRADE 11**

### ***Foundations of Mathematics 11***

This course is designed to provide students with developing mathematical understandings and competencies identified for post-secondary studies in programs that do not require the study of theoretical calculus. Topics include logical reasoning, geometry, measurement, relations and functions, and statistics.

### ***Pre-Calculus 11***

This course is designed to provide students with developing the mathematical understandings and competencies identified for entry into post-secondary programs that require the study of theoretical calculus. Curricular content include radicals,

polynomials, quadratic functions, and trigonometry. Curricular Competencies (reasoning, problem solving, communicating, connecting and reflecting) are experienced through the content of this course.

### ***Workplace Mathematics 11***

This course is designed to provide students with developing the mathematical understandings and competencies identified for both entry into the world of work and some post-secondary programs. Curricular content includes geometry, measurement, financial literacy, statistics and application of number concepts. Curricular competencies such as estimating, visualizing, modelling, use of technology and communicating are experienced through the mathematical curricular content.

## **GRADE 12**

### ***Calculus 12***

This course is designed to provide students with developing the mathematical understandings and competencies as a preview to post-secondary Calculus. Curricular content includes limits, derivatives and integration.

### ***Foundations of Mathematics 12***

This course is designed to provide students with developing mathematical understandings and competencies identified for post-secondary studies in programs that do not require the

study of theoretical calculus. Topics include financial mathematics, logical reasoning, probability, relations and functions and fractals.

### ***Pre-Calculus 12***

The goal of this course is to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies. The content students are expected to know upon completing the course is using inverses, the characteristics of functions, trigonometry, and the transformations of functions. The curricular competencies that students are expected to do are reasoning and modelling, understanding and solving, connecting and reflecting, and communicating and representing. After successful completion of the Pre-Calculus 12 course, students can choose to take Calculus.

### ***Statistics 12***

This course is designed to provide students with opportunities to analyze quantitative data using a variety of methods. Curricular content includes graphical representations for data, statistical analysis of data and relationships between data, sampling techniques and bias, formulating hypotheses from data sets, statistical techniques to test the validity of hypotheses, and analyze and make statistical conclusions. Curricular Competencies (reasoning, problem solving, communicating, connecting and reflecting) are experienced through the content of this course.

# ***Physical and Health Education***

## **GRADE 9**

### ***Physical and Health Education 9***

The concepts taught in Physical Education 9 include: active living, wellness, fitness, lifetime/leisure activities, with an emphasis upon full participation in the following activities: badminton, basketball, mini games unit/minor games, rugby, skating, soccer, softball, track and field, touch football, volleyball (indoor/outdoor), drug & alcohol, and family life education.

### ***Physical and Health Education 9:***

#### ***Active Living***

This course is designed for students interested in participating in physical education at the recreational level. Students will be encouraged to develop a positive relationship with physical activity and fitness, and one that will last into the future. Students will be exposed to non-competitive activities such as walking/running, trail walks, weight training, fitness at the Canada Games Center 1x/week, with the main focus being on personal fitness and daily active living. We sometimes do dance and yoga but it varies depending on student interest. There will also be traditional activities, with a focus on participation, such as badminton, ball sports, Indigenous activities, and cooperative games. Finally, we will focus on health education (mental health, sexual health, nutrition, substance abuse, safety) as per the curriculum.

## **GRADE 10**

### ***Physical and Health Education 10***

Physical and Health Education 10 combines physical activity and health education to help students develop both physical and mental health. Key topics include engaging in a variety of physical activities, building healthy relationships, and preventing themselves or others from experiencing bullying or harassment.

### ***Physical and Health Education 10:***

#### ***Active Living***

This course is designed for students interested in participating in physical education at the recreational level. Students will be encouraged to develop a positive relationship with physical activity and fitness, and one that will last into the future. Students will be exposed to non-competitive activities such as walking/running, trail walks, weight training, fitness at the Canada Games Center 1x/week, with the main focus being on personal fitness and daily active living. We sometimes do dance and yoga but it varies depending on student interest. There will also be traditional activities, with a focus on participation, such as badminton, ball sports, Indigenous activities, and cooperative games. Finally, we will focus on health education (mental health, sexual health, nutrition, substance abuse, safety) as per the curriculum.

## **GRADE 11**

### ***Active Living 11***

This course is designed for students who enjoy physical activity and want to become more competent in movement skills. Classes will take part in the school gym, the school fitness room, on the school fields and occasionally areas away from the school. Students will take part in individual, dual, team sports and cooperative activities. An emphasis is placed on fair play and leadership. Students will take part in group projects such as creating tournaments, leading warmups, and cool-downs, running a fitness circuit and coming up with unique low organized games. Personal fitness is also an important aspect of this course. Students will take part in daily fitness activities as part of warm-up sessions. Weekly circuits and cardio sessions will also occur. Focus is placed on creating good habits that will help lead to lifelong participation in activity.

### ***Fitness and Conditioning 11***

This course is designed for students who want to increase or maintain a high level of personal fitness and gain confidence to help them stay active. Most of the class will occur in the school gymnasium, the school fitness room, and the PE classroom at PCSS. Depending on the semester and availability, one class a week will be conducted in the Wellness Room at the Canada Games Centre. Goal setting and fitness testing occur at the start of the semester. Students then take part in fitness activities, including cardiovascular endurance, strength training, agility training, and high intensity interval training. Students work to implement personal fitness plans after completing instructor lead workouts. Classroom sessions cover topics including heart rate, principles of training, anatomy, and physiology.

## **GRADE 12**

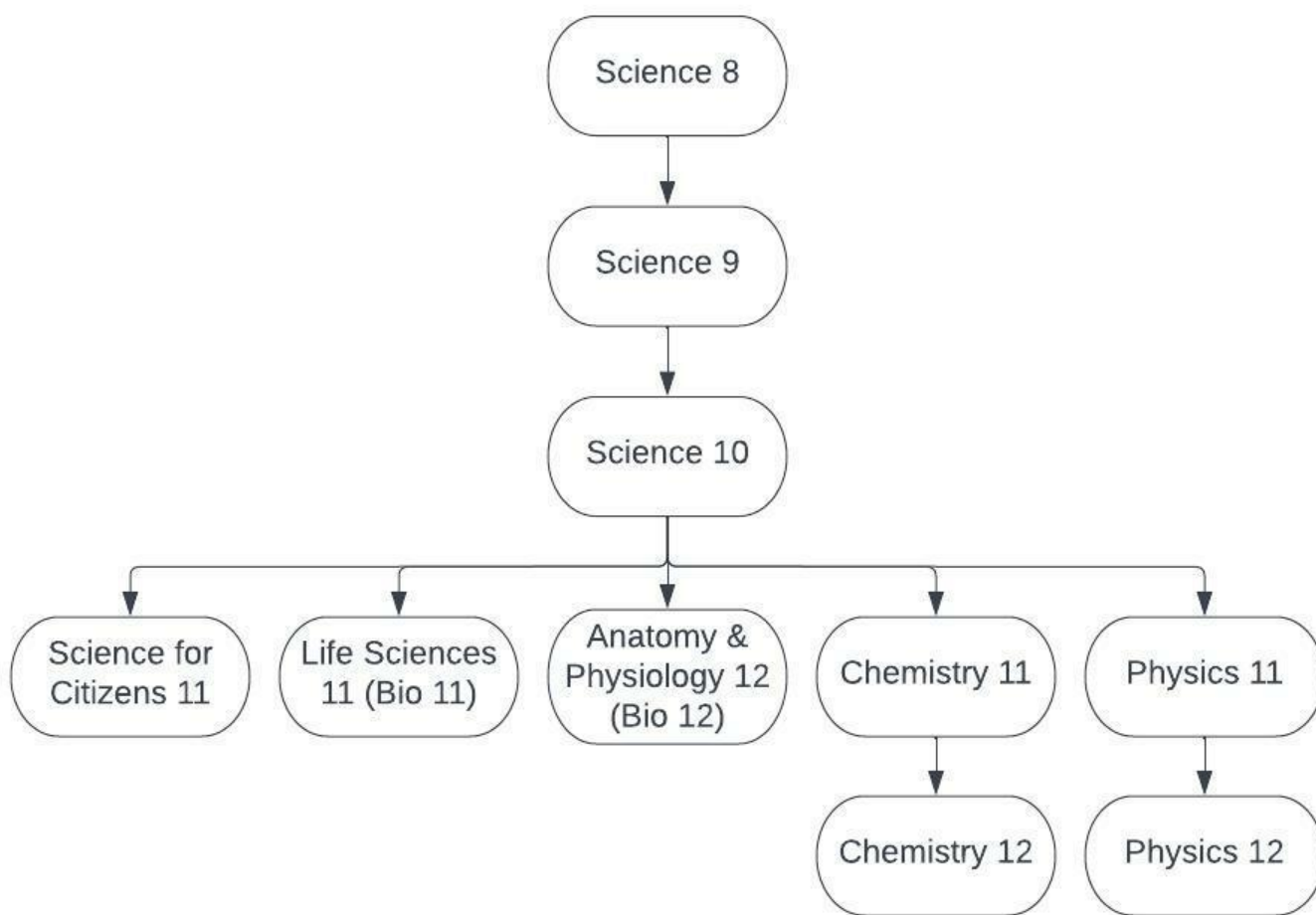
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# ***Science***



Every student must have a credit for Science 11 OR 12 to meet graduation requirements.

The pre-requisite for Anatomy & Physiology 12 is Science 10. The pre-requisite for Chemistry 12 is Chemistry 11 and the pre-requisite for Physics 12 is Physics 11. Pre-Calculus 11 and 12 are strongly recommended for Chemistry 12 & Physics 12.

## **GRADE 9**

### **Science 9**

Science 9 continues to develop the critical thinking skills, knowledge, and communication skills introduced in Science 8. Topics include: Processes of Science; Life Science (reproduction); Earth & Space Science (space exploration); and Physical Science (elements, compounds and the characteristics of electricity).

## **GRADE 10**

### **Science 10**

Science 10 is a broad-based course in which students investigate genetics and inheritance, chemical reactions, transformation of energy into different forms as well as the global and local impacts of energy use, and the formation of the universe.

## **GRADE 11**

### ***Chemistry 11***

Math skills are used in Stoichiometry and dimensional analysis problems in Chemistry 11. Students will learn concepts pertaining to matter, the mole concept, chemical reactions, solubility and organic chemistry. They will analyze patterns and relationships in chemical processes and naming. They will also practice precise and accurate unit measurement and conversion using the mole concept in stoichiometric calculations. Students will evaluate how organic structures and soluble compounds affect our world with a First Nations perspective.

### ***Life Sciences 11 (Biology 11)***

Life Sciences 11 is an introduction to the study of living things. Students will explore the process of evolution, taxonomy and how organisms function in their environment.

### ***Physics 11***

Physics 11 is a hands-on science course that investigates physical phenomena, including motion, contact forces and mechanical waves. Conservation of energy is explored through mechanics, thermodynamics and electric circuits.

### ***Science for Citizens 11***

Science for Citizens 11 is a hands-on science course focused on exploring everyday science within the context of personal/home, local/workplace, and global applications.

## **GRADE 12**

### ***Anatomy and Physiology 12 (Biology 12)***

Anatomy and Physiology 12 focuses on the relationships between form and function of body systems. Students will explore the macro

and micro aspects of these interactions, and how body processes integrate to maintain homeostasis.

### ***Chemistry 12***

Problem-solving and math skills are used in understanding, predicating and manipulating acid-base neutralization and redox reactions in Chemistry 12. Students will learn concepts pertaining to reaction rates, equilibrium solutions, acid-base and redox reactions. They will analyze patterns and relationships in chemical processes and naming. They will also practice precise and accurate measurements and conversions using stoichiometric calculations. Students will learn to analyze cause-and-effect relationships in the world of chemistry.

### ***Physics 12***

Physics 12 is a science course that moves from concrete to conceptual understandings of physical phenomena. Students will explore the classical mechanics of relative motion, forces, fields and momentum. Students will also investigate modern physics including special relativity, fundamental forces and wave-particle duality.

### ***Psychology 12***

*\*Meets the GRADE 12 elective credit requirement but does **not** satisfy the science graduation requirement.\**

This course is designed to help students understand their own and other people's behaviour. Topics will include personality, psychological testing, stress and health, adjustment in society, abnormal behaviour, therapy and change, human interactions, attitudes and social influence, careers, and research and statistics.



### ***Specialized Science 12: Science of Sport***

This Science course is designed to dive into human anatomy and some of the science behind sport. How does your body work? How can I push it? Touch on interesting topics such as violence in sport or gender in sport. Create

healthy fitness plans that you can put to the test. You will take an in-depth look at the human skeletal system; you will be introduced to the muscular system and will understand how they work together.

# ***Social Studies***

## **GRADE 9**

### ***Social Studies 9***

Students will be engaging with the themes of revolution, imperialism, nationalism, and colonialism from 1750- 1919, throughout different parts of the world. In addition, Canada's physical geography will be explored to boost students' understanding of the country we reside in. Students will develop their inquiry, document analysis, and oral/written communication in a variety of ways throughout the class, by exploring the themes. In addition, students will be interpreting evidence, assessing continuity and change, considering perspective, understanding cause and consequence, and making ethical judgments of various events within the given time period, in line with the themes for the course.

## **GRADE 10**

### ***Social Studies 10***

Social Studies 10 examines topics in modern Canadian and world history, including Canada's transformation from British dominion to independent nation, development of human rights in Canada and around the world, and major international conflicts.

## **GRADE 12**

### ***20th Century World History 12***

This course is a world history course that examines 1919-2000. It includes the Paris Peace Conference after World War I, the Russian Revolution, the rise of Fascism, World War II, and the Cold War among other topics.

### ***Comparative Cultures 12***

This course begins with mankind emerging

from the Stone Age, and covers the development of culture and civilization. It looks at Mesopotamia, Egypt, Greece, Rome, the Middle Ages and cultures in the Americas (Inca, Maya, Aztec) and Asia (China, India, Japan). Each unit is made up of a variety of small projects including short paragraphs, essays, maps, drawings, charts, biographies, and others.

### ***Law Studies 12***

This course covers Canadian Criminal Law, Family Law, and Contract Law. It examines the Canadian Constitution, the Charter of Rights and Freedoms, legislation concerning First Peoples, and Canada's correctional system.

### ***Philosophy 12***

Philosophy 12 allows for a very open exploration of the big questions in philosophy. The major topics are theories of knowledge and truth, political philosophy, and theories of morality and ethics.

### ***Physical Geography 12***

This course examines the processes that impact the physical earth, such as volcanism, continental drift, erosion, and weather and climate. It also looks at energy issues and environmentalism.

### ***Yukon First Nations Studies 12***

This course focuses on the history, richness and diversity of First Nations cultures across North America. Topics include Beringia, early European contact and colonization, the settling of the West and the struggle for rights during the 20<sup>th</sup> century. Different cultures will be studied from the Yukon to the Aztec & Maya in Mexico to the Powhatan, Lakota and Cree among others in America and Canada.

## ***Required Courses***

Each column represents the eight blocks available through a full school year with four courses each semester. Spares are not permitted in student schedules until Grade 12 and only once graduation and post-secondary requirements are met. Admission to post-secondary programs often requires specific academic courses and the guidance team will help you make the best selections for your future as you progress through the grades.

	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>Course #1</b>	English Language Arts 9	English Language Arts 10 <i>Literary Studies 10 AND</i> • <i>Composition 10 OR</i> • <i>New Media 10</i>	English First Peoples 11 <i>Literary Studies 11 AND</i> • <i>New Media 11 OR</i> • <i>Writing 11</i>	English Studies 12
<b>Course #2</b>	Social Studies 9	Social Studies 10	Social Studies 11 or 12 *Can be taken in either Grade 11 or 12* • <i>20th Century World History 12</i> • <i>Comparative Cultures 12</i> • <i>Law Studies 12</i> • <i>Philosophy 12</i> • <i>Physical Geography 12</i> • <i>Yukon First Nations Studies 12</i>	
<b>Course #3</b>	Mathematics 9	Mathematics 10 • <i>Foundations of Mathematics &amp; Pre-Calculus 10</i> • <i>Workplace Mathematics 10</i>	Mathematics 11 or 12 *Can be taken in either Grade 11 or 12* • <i>Foundations of Mathematics 11</i> • <i>Pre-Calculus 11</i> • <i>Workplace Mathematics 11</i> • <i>Foundations of Mathematics 12</i> • <i>Pre-Calculus 12</i> • <i>Statistics 12</i> • <i>Calculus 12</i>	
<b>Course #4</b>	Science 9	Science 10	Science 11 or 12 *Can be taken in either Grade 11 or 12* • <i>Chemistry 11</i> • <i>Life Sciences 11</i> • <i>Physics 11</i> • <i>Science for Citizens 11</i> • <i>Anatomy &amp; Physiology 12</i> • <i>Chemistry 12</i> • <i>Physics 12</i>	
<b>Course #5</b>	Physical & Health Education 9	Physical & Health Education 10	Elective	Elective
<b>Course #6</b>	Elective	Career Life Education 10	Elective	Career Life Connections 12
<b>Course #7</b>	Elective*	Elective*	Elective*	Elective
<b>Course #8</b>	Elective	Arts Education 10, 11, or 12 <i>and/or</i> Applied Design, Skills, and Technology 10, 11, or 12 *Can be taken in Grade 10, 11 or 12*		

*\*A second language course at the Grade 11 level is a requirement for some post-secondary schools. Consider a language course as an elective to keep all options open.*

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