PRINCESS MARGARET SECONDARY SCHOOL



Princess Margaret is a caring, inclusive community where everyone is a lifelong learner.

Grades 9 - 12
COURSE DESCRIPTION BOOK
2027-2028

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COUNSELLING

Student Last Name	Counsellor
A	Ms. Johnson
B-G	Mr. Dym
H-O	Mr. Alparaque
P-Z	Ms. Parkinson / Ms. Gill
Grade 12 Advisor / Post-Secondary and Scholarship Support	Ms. Lee

The Counselling Department endeavors to assist students to acquire the skills, knowledge and attitudes necessary to:

- know and appreciate themselves
- relate effectively to others
- develop appropriate educational plans and
- explore career alternatives

Individual counselling:
Counsellors help students become aware of their own potential, make wise decisions, and deal with the educational, social and personal challenges that may confront them. A student who wishes counselling assistance may request an appointment with his/her counsellor.

Program Planning:
Counsellors and Career Resource Centre staff will assist students with short and long term planning of their educational and career goals. Staff can also help with scheduling interviews, offering courses, participating in Post-Secondary Liaison Days, arranging for guest speakers, arranging student field trips to educational institutions or vocational sites, acquiring and displaying calendars and bulletin board displays, providing vocational interest tests, organizing Career Days, making available night and summer school information.

Volunteer Opportunities – Part-time and summer employment opportunities, as well as volunteer opportunities, are posted in the Counselling and Career Centre and through the Career Center's social media site.

HOW TO USE YOUR COURSE SELECTION HANDBOOK

"BEGIN WITH THE END IN MIND"

Course selection time is an opportunity to continue thinking about the path you are taking towards graduation and beyond. As a secondary school student, it is not expected that you will have all your plans written in stone, but it is important to research the opportunities that are appropriate for you. With that in mind, it is essential to select courses that will keep doors open.

Course selection is a process and this book is one of the tools to help you select your courses. It is expected that you will also take the time to dialogue with your parents, teachers and counsellors about the courses you will select. Further, it is expected that as a senior student, you will also be consulting career facilitators and post-secondary calendars (available on line) and websites (www.educationplanner.ca), ensuring that prerequisites are met for post-secondary programs that you are interested in. If you have any questions see your counsellor or Ms. Lee

FACTORS TO CONSIDER IN MAKING YOUR DECISIONS

Ask yourself these questions:

- Do the courses I have chosen for grade 10, 11 and 12:
  - Meet the requirement for secondary school **GRADUATION**?
  - Meet minimum post-secondary **ENTRANCE** requirements? (Check institution websites)
  - Meet specific post-secondary **PROGRAM** requirements?
  - Meet specific **EMPLOYER/CAREER** requirements?
- Are my marks high enough to meet post-secondary requirements for admission?
- If I am interested in scholarships, have I been involved in any leadership or volunteer activities?

DOGWOOD GRADUATION REQUIREMENTS

GRADE 10	GRADE 11	GRADE 12
1. EFP Literary Studies & Writing 10	1. English 11	1. English 12 or EFP 12
2. A Mathematics 10 (2 choices)	2. A Mathematics 11 (3 choices)	2. Elective 12
3. Science 10	3. A Science 11 (5 choices)	3. Elective 12
4. Social Studies 10	4. Senior Social Studies course	4. Elective 12
5. Career Life Education 10	5. Career Life Connections + Capstone	5. Elective:
6. Physical & Health Education 10	6. Elective:	6. Elective:
7. Elective:	7. Elective:	7. Elective:
8. Elective:	8. Elective:	8. Elective:
9. Literacy 10 Assessment		9. Literacy 12 Assessment
10. Numeracy 10 Assessment		

- 80 credits minimum to graduate. Each course = 4 credits
- 52 required course credits
- 24 elective credits
- 16 credits must be at the grade 12 level
- 4 credits in course work with an Indigenous focus are mandatory for graduation
- Assessments: Literacy 10, Numeracy 10, Literacy 12

STUDENT ASSESSMENT AND REPORTING

Ministry of Education Reporting

Students are assessed based on what they know, what they can do and what they understand. Teachers use a variety of assessment methods to determine final marks, including class work, exams, labs, projects, conversations and more.

Learning updates will include information about areas of significant growth and opportunities for further development; information about student attendance; and student-generated content including Student Self-Assessment of the Core Competencies and Student Goal Setting.

Reporting Periods:

Report Type	Typical Method	Typical Time	Type of Class
Informal	Parent Teacher Conferences	October	All
Formal	Myed	November	Semestered Classes: Mid-Term
Formal	Myed	January	Semestered Classes: Final Linear Classes: Mid-Term
Informal	Parent Teacher Conferences	March	All
Formal	Myed	April	All
Formal	Myed	January	All

Grade 8+9 Reporting: Proficiency Scale

Proficiency Scale	Emerging	Developing	Proficient	Extending
	The student demonstrates an initial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a partial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a complete understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a sophisticated understanding of the concepts and competencies relevant to the expected learning.

Grade 10 to 12 Reporting Letter Grades and Percentages

Percent	Letter Grade	Information
86-100%	A	Excellent
73-85%	B	Very Good
67-72%	C+	Above Average
60-66%	C	Average
50-59	C-	Below Average
IE / 0-49%	Insufficient Evidence / F	Not enough evidence of learning / failing

ADMISSION TO POST SECONDARY

General Admission to B.C. Universities

- For entrance into specific universities and/or faculties (i.e. Science, Applied Science, etc.) additional courses are required
- Students are advised to check the university web sites for detailed information and speak with their counsellor or Ms. Lee

Researching Post Secondary Opportunities

- www.educationplanner.bc.ca
- Deadlines and requirements are constantly changing; students are responsible for timely submissions to post-secondary programs
- Transferring between institutions (going from KPU to UBC for example) is very simple in BC. Check out https://www.bctransferguide.ca/
- Admission to Colleges is usually simpler than Universities

CAREER PROGRAMS

Career programs provide students with a unique opportunity to combine their academic studies with a career-related work experience. It opens the door to a world of experience that a classroom could never provide. Work experience courses provide students with an opportunity to:

- Explore career choices to make informed decisions.
- Gain valuable experience with workplace situations and equipment.
- Increase confidence and self-reliance.
- Develop awareness of personal qualities essential for success in the workplace.
- Obtain references and contacts that will assist in securing a job.
- Receive ministry-approved course credit towards graduation.

There are three types of career programs at the high school level:

- Career Preparation Co-Op Programs
- District Partnership Programs
- District Academic Dual Credit

CO-OP:
In addition to the traditional work placements, students attend career exploration field trips and receive course credit for the following classes

- Social Studies 10
- English 10
- Work Experience 12A
- Work Experience 12B
- CLE 10

District Partnership Programs:
The Surrey School District, in partnership with local post-secondary institutes and SkilledTradesBC, offers a wide variety of Partnership Programs for district high school students. These enable students to begin training in a specific occupation and to save money. The Surrey School District pays the tuition. Students who participate in a Partnership Program may receive elective credits toward secondary school graduation; post-secondary credit and / or SkilledTradesBC technical

trades apprenticeship training. Interested students should go to the PM Career Centre for additional information and to obtain an application package before January of their Grade 10 or Grade 11 year.

Automotive Service Technician	Collision and Refinishing Common Core	Electrical	Horticulture	Painter
Baking and Pastry Arts	Construction Craft Worker (CCW)	Explorations in Aviation Careers	Metal Fabrication	Piping
CADD/Drafting	Culinary Arts	Hairstylist	Millwright	Welding
Carpentry	Early Childhood Education (ECE)	Heavy Mechanical Trades		

District Academic Dual Credit Courses:
Dual credit courses enable students to receive credit for post-secondary courses while, at the same time, earning high school credit towards their graduation. Kwantlen Polytechnic University, Douglas College, Simon Fraser University, and Nicola Valley Institute of Technology provide Surrey School District students with the opportunity to take post-secondary courses, tuition-free, while they are still in high school. However, please note that students are responsible for the tuition for the Emily Carr Headstart in Art course.

Interested students should go to the PM Career Centre for additional information and to obtain an application package before January of their Grade 10 or Grade 11 year.

Community and Public Safety
Graphic Design Course Headstart in Art
High School on Campus
Introduction to Health Science
Introduction to Legal Office Procedures
Introduction to Practice for Child and Youth Care Counsellors

Subject Overview:

ADST:

	Grade 9	Grade 10	Grade 11	Grade 12
Business	Entrepreneurship and Marketing 9	Entrepreneurship and Marketing 10	Accounting 11	Accounting 12
			Marketing and Promotion 11	E-Commerce 12
		Media Design 10 (Yearbook)	Media Design 11 (Yearbook)	Media Design 12 (Yearbook)
Computers	Information and Communication Technologies 9	Computer Studies 10	Computer Programming 11	Computer Programming 12
			Computer Information Systems 11	Computer Information Systems 12
Home Economics	Food Studies 9	Food Studies 10	Food Studies 11	Food Studies 12
	Textiles 9	Textiles 10	Textiles 11	Textiles 12
			Interpersonal and Family Relationships	Child Development and Caregiving 12
Technology Education	Metal/Wood 9	Metalwork 10	Metalwork 11	Metalwork 12
				Art Metal and Jewellery 12
		Woodwork 10	Woodwork 11	Woodwork 12
		Technology Explorations 10		
	Power Tech 9	Automotive 10	Automotive 11	Automotive 12

Arts Education:

	Grade 9	Grade 10	Grade 11	Grade 12
Dance	Dance 9	Dance Foundations 10	Dance Foundations 11	Dance Foundations 12
	Dance 9 (Bhangra)	Dance Foundations 10 (Bhangra)	Dance Foundations 11 (Bhangra)	Dance Foundations 12 (Bhangra)
Drama	Drama 9	Drama 10	Drama 11	Drama 12
Music	Instrumental Music 9 (Band)	Instrumental Music 10 (Band)	Instrumental Music 11 (Band)	Instrumental Music 12 (Band)
	Instrumental Music 9 (Guitar)	Instrumental Music 10 (Guitar)	Instrumental Music 11 (Guitar)	Instrumental Music 12 (Guitar)
	Instrumental Music 9 (Keyboards)	Instrumental Music 10 (Keyboards)	Instrumental Music 11 (Keyboards)	Instrumental Music 12 (Keyboards)
Visual Arts	Visual Arts 9	Art Studio 10	Art Studio 11	Art Studio 12
		Studio Arts 2D 10	Studio Arts 2D 11	Studio Arts 2D 12
		Studio Arts 3D 10	Studio Arts 3D 11	Studio Arts 3D 12
	Media Arts 9 (Photography)	Photography 10	Photography 11	Photography 12
	Media Arts 9 (Video)	Media Arts 10 (Video)	Media Arts 11 (Video)	Media Arts 12 (Video)

Career Education

	Grade 9	Grade 10	Grade 11	Grade 12
Career Education	Careers 9 (Outside of Timetable)	Career Life Education	Career Life Connections (taken in grade 11 or 12)	

English Language Arts

	Grade 9	Grade 10	Grade 11	Grade 12
English Language Arts	English Language Arts 9	English First People's 10 - Literary Studies & Writing	Composition 11	English Studies 12
			Literary Studies 11	English First Peoples 12

Languages

	Grade 9	Grade 10	Grade 11	Grade 12
French	French 9	French 10	French 11	French 12
Punjabi	Punjabi 9	Punjabi 10	Punjabi 11	Punjabi 12
Spanish	Spanish 9	Spanish 10	Spanish 11	Spanish 12

Mathematics

Grade 9	Grade 10	Grade 11	Grade 12
Mathematics 9 Mathematics 9 (Honours)	Foundations and Precalculus 10 Foundations and Precalculus 10 (Honours)	Foundations of Mathematics 11	Foundations of Mathematics 12
		Pre-calculus 11	Pre-Calculus 12
			Calculus 12
Mathematics 9 (Adapted)	Workplace Mathematics 10	Workplace Math 11	

Other Classes

	Grade 9	Grade 10	Grade 11	Grade 12
ELL	→	Beginning, Developing, Expanding		→
Leadership	Leadership 9 with PHE 9	Leadership 10 (Intramurals)	Leadership 11 (Intramurals)	Leadership 11 (Intramurals)
Peer Tutoring			Peer Tutoring 11	Peer Tutoring 12
Psychology			Psychology 11	Psychology 12

Physical and Health Education

Grade 9	Grade 10	Grade 11	Grade 12
PHE 9 PHE 9 (Linear with Leadership)	PHE 10 PHE 10 (Leadership)	Active Living 11 Active Living 11 (Leadership)	Active Living 12 Active Living 12 (Leadership)
		Weight Training 11	Weight Training 12
	Fitness & Healthy Lifestyles 10 (Elective)	Fitness and Conditioning 11	Fitness and Conditioning 12

Science

Grade 9	Grade 10	Grade 11	Grade 12
Science 9	Science 10	Chemistry 11	Chemistry 12
		Life Science 11	Anatomy and Physiology 12
		Physics 11	Physics 12
		Science for Citizens 11	

Social Studies

	Grade 9	Grade 10	Grade 11	Grade 12
Social Studies	Social Studies 9	Social Studies 10	Explorations in Social Studies 11	Asian Studies 12
				History 12
				Human Geography 12
				Law Studies 12
				Social Justice 12

English Language Learning: Students requiring additional support in English will be placed in the appropriate level of English Language Learning Support courses. They will receive additional support through their case managers throughout the year.

Grade 9 Required Classes

Each grade 9 student in mainstream classes takes the following courses:

Careers 9	English 9	Math 9	Physical and Health Education 9	Science 9	Social Studies 9

Career Education 9 (Completed Outside of the Timetable)

- All students complete Career Education 9 outside of the timetable
- **Personal Development**
- goal-setting strategies
- self-assessment for career research
- reflection
- project management
- **Connections to Community**
- local and global needs and opportunities
- cultural and social awareness
- factors affecting types of jobs in the community
- career value of volunteering
- **Life and Career Plan**
- graduation requirements
- role of mentors, family, community, school, and personal network in decision making
- influence of technology in learning and working
- workplace safety
- hazard evaluation and control
- rights and responsibilities of the worker
- emergency procedures
- role of community, school, personal network, and mentorship in career planning

English Language Arts 9 (Semestered or Linear with Social Studies 9)

Story/text

- forms, functions, and genres of text
- text features
- literary elements
- literary devices
- elements of visual/graphic texts

Strategies and processes

- reading strategies
- oral language strategies
- metacognitive strategies
- writing processes

Language features, structures, and conventions

- features of oral language
- multi-paragraphing
- language change
- elements of style
- usage
- syntax and sentence fluency
- conventions
- presentation techniques
- rhetorical devices
- connotation and denotation

Mathematics 9 (Semestered, Adapted, Honours)

- operations with rational numbers (addition, subtraction, multiplication, division, and order of operations)
- exponents and exponent laws with whole-number exponents
- operations with polynomials, of degree less than or equal to 2
- two-variable linear relations, using graphing, interpolation, and extrapolation
- multi-step one-variable linear equations
- spatial proportional reasoning
- statistics in society
- financial literacy — simple budgets and transactions

Physical and Health Education 9
Physical and Health Education 9 Linear with Leadership 9 (application course)

- proper technique for fundamental movement skills including non-locomotor, locomotor, and manipulative skills
- movement concepts and strategies
- ways to monitor and adjust physical exertion levels
- how to participate in different types of physical activities, including individual and dual activities, rhythmic activities, and games
- training principles to enhance personal fitness levels, including the FITT principle, SAID principle, and specificity
- effects of different types of physical activity on the body
- healthy sexual decision making
- potential short- and long-term consequences of health decisions, including those involving nutrition, protection from sexually transmitted infections, and sleep routines

- sources of health information
- basic principles for responding to emergencies
- strategies to protect themselves and others from potential abuse, exploitation, and harm in a variety of settings
- consequences of bullying, stereotyping, and discrimination
- physical, emotional, and social aspects of psychoactive substance use and potentially addictive behaviours
- signs and symptoms of stress, anxiety, and depression
- influences of physical, emotional, and social changes on identities and relationships

Science 9

- asexual reproduction:
  - mitosis
  - different forms
- sexual reproduction:
  - meiosis
  - human sexual reproduction
- element properties as organized in the periodic table
- The arrangement of electrons determines the compounds formed by elements
- circuits — must be complete for electrons to flow
- voltage, current, and resistance
- effects of solar radiation on the cycling of matter and energy
- matter cycles within biotic and abiotic components of ecosystems
- sustainability of systems
- First Peoples knowledge of interconnectedness and sustainability

Social Studies 9 (semestered or linear with English 9)

- political, social, economic, and technological revolutions
- imperialism and colonialism on indigenous peoples in Canada and around the world
- global demographic shifts, including patterns of migration and population growth
- nationalism and the development of modern nation-states, including Canada
- local, regional, and global conflicts
- discriminatory policies and injustices in Canada and the world, such as the Head Tax, the Komagata Maru incident, residential schools, and World War I internment
- physiographic features of Canada and geological processes

Each grade 9 student gets to take **3 elective classes** of their choice from the following departments:

ADST 9	**Arts Education 9**	**Modern Languages 9**
Business / Computers Home Economics Technology Education	Dance Drama Music Visual Arts	French Punjabi Spanish

Applied Design, Skills and Technologies 9

Business / Computers:
Entrepreneurship and Marketing 9

- risks and benefits of entrepreneurship
- the role of social entrepreneurship in First Nations communities
- ways of decreasing production costs through training and technological advancement
- flow of goods and services from producers to consumers
- identification of a good or service that ensures brand recognition
- marketing strategies using the 4 Ps: product, price, promotion, and placement
- market segmentation by demographic, geographic, psychographic, and purchasing pattern
- evolving consumer needs and wants
- role of online technologies in expanding access to goods and services
- sources of financing for a new venture or start-up business
- measurement of financial success and failure

Information and Communications Technologies 9

- text-based coding
- binary representation of various data types, including text, sound, pictures, video
- drag-and-drop mobile development
- programming modular components
- development and collaboration in a cloud-based environment
- design and function of networking hardware and topology, including wired and wireless network router types, switches, hubs, wireless transfer systems, and client-server relationships
- functions of operating systems, including mobile, open source, and proprietary systems
- current and future impacts of evolving web standards and cloud-based technologies
- design for the web
- strategies for curating and managing personal digital content, including management, personalization, organization, maintenance, contribution, creation, and publishing of digital content
- relationships between technology and social change
- strategies to manage and maintain personal learning networks, including content consumption and creation
- keyboarding techniques

Home Economics 9

Food Studies 9

- pathogenic microbes associated with food-borne illnesses
- components of food preparation, including use and adaptations of ingredients, techniques, and equipment
- health, economic, and environmental factors that influence availability and choice of food in personal, local, and global contexts
- ethical issues related to food systems
- First Peoples traditional food use, including ingredients, harvesting/gathering, storage, preparation, and preservation

Textiles 9

- natural and manufactured fibres, including their origins, characteristics, uses, and care
- strategies for using and modifying simple patterns
- elements of design used in the design of a textile item

- social factors that influence textile choices and the impact of those choices on local communities
- role of textiles in First Peoples cultures

Technology Education 9

Metalwork 9

- basic metallurgy
- range of uses of metalwork
- welding
- fabrication techniques and processes using hand tools and stationary equipment
- foundry processes, including creating patterns and moulds, and casting
- recycling and repurposing of materials

Power Technology 9

- energy transmission and applications
- efficiency, including energy loss in the form of thermal energy
- thermodynamics
- types of fuels and methods of converting fuels to mechanical energy
- alternative energy sources
- small engine systems
- mechanical measurement devices
- power technology hand tools
- effects of forces on devices
- manuals as information sources

Woodwork 9

- importance of woodwork in historical and cultural contexts, locally and throughout Canada
- identification, characteristics, properties, and uses of wood from various tree species
- techniques for adjusting plans and drawings
- woodworking techniques and traditional and non-traditional joinery using a variety of tools and equipment, including stationary power equipment
- the relationship between First Peoples culturally modified trees and the sustainable use of wood
- issues in the sustainable use of wood

Arts Education 9

Dance 9 (Mainstream or Bhangra)

- dance elements, techniques, and vocabulary to create mood and convey ideas, including but not limited to: body, space, dynamics (dance), time, relationships, form, and movement principles
- choreographic devices and notation
- choreographic choices that impact clarity of intent and purpose
- compositional devices, forms, and structures of dance
- processes, materials, movements, technologies, strategies, and techniques to support creative works
- the roles of performers and audiences in a variety of contexts
- traditional and contemporary Aboriginal worldviews and cross-cultural perspectives communicated through movement and dance
- contributions of innovative artists from a variety of genres, communities, times, and places
- personal and social responsibility associated with creating, performing, and responding in dance
- the ethics of cultural appropriation and plagiarism

Drama 9

- drama elements, techniques, and vocabulary, to create mood and convey ideas, including but not limited to: character, time, place, plot, tension, mood, focus, contrast, balance
- a variety of drama forms and drama conventions
- the roles of performers and audiences in a variety of contexts
- traditional and contemporary Aboriginal worldviews and cross-cultural perspectives communicated through storytelling and drama
- contributions of innovative artists from a variety of genres, communities, times, and places

- personal and social responsibility associated with creating, performing, and responding in drama
- the ethics of cultural appropriation and plagiarism

Music 9 (Keyboard, Guitar, Band)

- music elements, principles, techniques, vocabulary, notation, and symbols to define style and convey ideas, including but not limited to: beat/pulse, metre, duration, rhythm, tempo, pitch, timbre, dynamics, form (music), texture
- musical interpretation and choices impact performance
- the roles of performers and audiences in a variety of contexts
- traditional and contemporary Aboriginal worldviews and cross-cultural perspectives communicated through song
- contributions of innovative musicians and composers from a variety of genres, communities, times, and places
- personal and social responsibility associated with creating, performing, and responding in music
- the ethics of cultural appropriation and plagiarism

Visual Arts 9 (Art or Photography)

- visual arts elements, principles, and image design strategies to create mood and convey ideas, including but not limited to:
- elements of design: line, shape, space, texture, colour, form, value
- principles of design: pattern, repetition, balance, contrast, emphasis, rhythm, movement, unity, variety, proportion, harmony
- image design strategies: elaboration, simplification, magnification, reversal, fragmentation, distortion
- personal narrative as a means of representing self-perception and identity in artistic works
- the roles of artists and audiences in a variety of contexts
- traditional and contemporary Aboriginal worldviews and cross-cultural perspectives as communicated through visual arts
- contributions of innovative artists from a variety of styles, genres, contexts, and movements
- personal and social responsibility associated with creating, experiencing, and responding to visual art
- the ethics of cultural appropriation and plagiarism

Languages 9

Core French 9

- French letter patterns
- commonly used vocabulary and sentence structures for communication in past, present, and future time frames:
- various types of questions
- descriptions of items, people, places, and personal interests
- comparisons and contrasts
- sequences of events
- simple needs
- opinions about familiar topics
- cultural aspects of communities
- elements of common types of texts
- common elements of stories
- traditions and other cultural practices in various Francophone regions
- ethics of cultural appropriation and plagiarism

Punjabi 9

- Punjabi letter patterns
- vocabulary, sentence structures, and expressions, including:
- types of questions
- descriptions of people, objects, and locations
- sequence of events
- personal interests, needs, and opinions
- past, present, and future time frames
- elements of common texts
- common elements of stories
- First Peoples perspectives connecting language and culture, including oral histories, identity, and place
- Punjabi works of art
- cultural aspects of various Punjabi communities
- ethics of cultural appropriation and plagiarism

Spanish 9

- Spanish letter patterns
- First Peoples perspectives connecting language and culture, including oral histories, identity, and place
- common vocabulary, sentence structures, and expressions, including:
- questions
- descriptions of people, objects, and locations
- sequence of events
- personal interests, needs, and opinions
- past, present, and future time frames
- elements of common texts
- common elements of stories
- cultural practices, traditions, and attitudes in various Hispanic regions
- Hispanic works of art
- ethics of cultural appropriation and plagiarism

Grade 10

Each grade 10 student in mainstream classes takes the following required courses:

Career Life Education 10	English First People's 10	Math 10: Either • Foundations + Pre-Calculus 10 (or) • Workplace Mathematics 10	Physical and Health Education 10	Science 10	Social Studies 10

Career Life Education 10 (Semestered, COOP, PE Leadership)

Career-life development
- mentorship opportunities
- strategies for maintaining well-being in personal and work life
- preferred ways of knowing and learning
- competencies of the educated citizen, employability skills, essential skills, leadership and collaboration skills
- self-assessment and reflection strategies
- ways to represent themselves both personally and publicly
- appropriate workplace behaviour and workplace safety

Connections with community
- inclusive practices, including taking different worldviews and diverse perspectives into consideration
- personal networking and employment marketing strategies
- factors that both inform career-life choices and are influenced by them, including personal, environmental, and land use factors
- ways to contribute to community and society that take cultural influences into consideration
- value of volunteerism for self and community

Career-life planning
- career-life development research
- methods of organizing and maintaining authentic career-life evidence
- models of decision making and innovative thinking for flexible planning and goal setting
- financial planning tools, pre- and post-graduation opportunities, and local and global labour and market trends

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English First Peoples Literary Studies and Writing 10 (Semestered, COOP, Linear with Social Studies 10)
(satisfies Indigenous graduation requirement)

Text forms and genres
- Common themes in First Peoples texts
- Reconciliation in Canada
- First Peoples oral traditions
- purposes of First Peoples oral texts
- Protocols
- protocols related to ownership and use of First Peoples oral texts
- Text features and structures
- narrative structures, including those found in First Peoples' texts
- form, function, and genre of texts

Strategies and processes
- reading strategies
- metacognitive strategies
- writing processes
- oral language strategies

Language features, structures, and conventions
- elements of style
- usage and conventions
- literary elements and devices
- citations and acknowledgements
- literal and inferential meaning

Foundations of Mathematics and Pre-calculus 10 (Mainstream or Honours)
- operations on powers with integral exponents
- prime factorization
- functions and relations: connecting data, graphs, and situations
- linear functions: slope and equations of lines
- arithmetic sequences
- systems of linear equations
- multiplication of polynomial expressions
- polynomial factoring
- primary trigonometric ratios
- financial literacy: gross and net pay

Workplace Mathematics 10 (Semestered or 10+11 Linear)

- create, interpret, and critique graphs
- primary trigonometric ratios
- metric and imperial measurement and conversions
- surface area and volume
- central tendency
- experimental probability
- financial literacy: gross and net pay

Physical and Health Education 10 (Semestered or Rec Leadership with CLE 10 – Application Course)

- proper technique for movement skills
- movement concepts and strategies
- ways to monitor and adjust physical exertion levels
- health benefits of physical activities
- individual and dual activities, rhythmic activities, games, and outdoor activities
- training principles, including the FITT principle, SAID principle, and specificity
- healthy sexual decision making
- potential short- and long-term consequences of health decisions, including those involving physical activity, healthy eating, sleep routines, and technology
- sources of health information
- basic principles for responding to emergencies including Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED) learning
- strategies to protect themselves and others from potential abuse, exploitation, and harm in a variety of settings
- consequences of bullying, stereotyping, and discrimination
- physical, emotional, and social aspects of psychoactive substance use and potential behaviours
- signs and symptoms of stress, anxiety, and depression
- influences of physical, emotional, and social changes on identities and relationships<
- strategies for goal-setting and self-motivation
- Some of the learning standards in the PHE curriculum address topics that some students and their parents or guardians may feel more comfortable addressing at home. Detailed information about opting for alternative delivery can be found on the Ministry policy website.

Science 10

- DNA structure and function
- patterns of inheritance
- mechanisms for the diversity of life:
  - mutation and its impact on evolution
  - natural selection and artificial selection
- applied genetics and ethical considerations
- rearrangement of atoms in chemical reactions
- acid-base chemistry
- law of conservation of mass
- energy change during chemical reactions
- practical applications and implications of chemical processes, including First Peoples knowledge
- nuclear energy and radiation
- law of conservation of energy
- potential and kinetic energy
- transformation of energy
- local and global impacts of energy transformations from technologies
- formation of the universe:
  - big bang theory
  - components of the universe over time
- astronomical data and collection methods

Social Studies 10 (semestered, linear with English 10, COOP)

- and injustices against First Peoples in BC and Canada
- discriminatory policies and injustices in Canada and the world, including the head tax, the Komagata Maru incident, racial segregation and the destruction of Hogan's Alley, and the internment of Japanese Canadians
- The Holocaust and the concept of genocide
- advocacy for human rights, including findings and recommendations of the Truth and Reconciliation Commission
- domestic conflicts and co-operation
- international conflicts and co-operation

Each grade 10 student gets to take **3 elective classes** of their choice from the following departments:

ADST 10	**Arts Education 10**	**Modern Languages 10**	**Other** Leadership 10 (Intramurals)
Business / Computers Home Economics Technology Education	Dance Drama Music Visual Arts	French Punjabi Spanish	Fitness and Healthy Lifestyles 10

Applied Design Skills and Technology 10

Business / Computers:

Entrepreneurship and Marketing 10

- entrepreneurship opportunities
- characteristics of entrepreneurs
- creative ways to add value to an existing idea or product
- ethics of cultural appropriation
- differences between invention and innovation
- barriers that diverse groups of entrepreneurs face and factors that can contribute to their success
- life cycle of a product from invention/innovation to the marketplace
- ethical marketing strategies
- forms of marketing
- online marketing concepts
- customer needs, wants, and demands

Computer Studies 10

- design opportunities
- computer hardware, peripherals, internal and external components, and standards
- distinctions between software types, cloud-based and desktop applications
- intermediate features of business applications, including word processing, spreadsheets, and presentations
- operating system shortcuts and command line operations
- preventive maintenance of hardware and software
- computer security risks
- hardware and software troubleshooting
- wired and wireless computer networking
- evolution of digital technology and the impact on traditional models of computing
- risks and rewards associated with big data, multi-device connectivity, and the Internet of Things
- principles of computational thinking
- introductory computer programming concepts and constructs
- planning and writing simple programs, including games
- impacts of computers and technology on society
- ethical considerations of technology use, including cultural appropriation and environmental sustainability
- digital literacy and digital citizenship
- impacts of technology use on personal health and wellness

Media Design 10 (Yearbook 10 – Application Course)

- design opportunities
- media technologies
- techniques for organizing ideas to structure stories or information and to create points of view in images
- media production skills, including
- pre-production
- production
- post-production
- standards-compliant technology
- ethical, moral, and legal considerations, and ethics of cultural appropriation
- technical and symbolic elements that can be used to create representations influenced by points of view, story, genre, and values
- specific features and purposes of media artworks, past and present, to explore multiple viewpoints and to explore the perspectives of First Peoples
- influences of digital and non-digital media in documentation, communication, reporting, and self-expression
- digital citizenship, etiquette, and literacy
- history of design: local, indigenous, regional, and global

Home Economics 10:

Food Studies 10

- meal design opportunities
- elements of meal preparation, including principles of meal planning and eating practices
- causes and consequences of food contamination outbreaks
- First Peoples food protocols, including land stewardship, harvesting/gathering, food preparation and/or preservation, ways of celebrating, and cultural ownership
- ethics of cultural appropriation
- relationship between eating practices and mental and physical well-being
- food trends, including nutrition, marketing, and food systems
- simple and complex global food systems and how they affect food choices, including environmental, ethical, economic, and health impacts

Textiles 10

- design opportunities
- origins, characteristics, and care of natural and manufactured textiles
- hand and machine construction techniques for producing and/or repairing textile items
- First Peoples traditional and current textile knowledge and practices
- strategies for altering patterns and upcycling
- principles of design used in the design of textile items
- environmental factors and ethical factors that influence textile choices and the impact of those choices on local and global communities

Technology Education 10:

Metalwork 10, Metalwork 10 Art Metal and Jewellery – Co-Ed or Girls Only)

- design opportunities
- proper storage and organization of tools and equipment
- selection of metal for size, shape, and finish
- common gauges of metal
- identification of ferrous and non-ferrous materials and carbon content
- start-up, shutdown, and handling procedures for compressed gas cylinders
- precision measurement
- cutting threads
- mechanical fasteners and fastening methods
- methods for laying out, forming, and joining metal
- precision grinding
- computer numerical control (CNC) applications
- reading and preparing drawings, plans, and cutting lists
- ethics of cultural appropriation in design process

Power Technology 10

- internal and external combustion
- components of a combustion engine
- non-fuel power systems
- disassembly and assembly sequences
- engine terminology
- lubrication and antifriction
- hydraulic and pneumatic systems
- transfer and conversion of energy
- hand tools and power tools specific to mechanical repair and maintenance
- torques and tolerances for specific operations
- fasteners and fittings
- energy transmission and conversion systems
- technologies that reduce energy use and waste
- historical and potential future impact of energy, power, and transportation systems on society and the environment
- alternate energy sources

Woodwork 10

- project design opportunities
- importance of woodwork in historical and current cultural contexts of First Nations, Métis, or Inuit communities, and other cultural contexts
- ethics of cultural appropriation in design process
- identification, characteristics, properties, and uses of wood from various species
- choices related to the sustainable use of wood
- uses and creation of plans and drawings

- techniques for stock breakout and woodworking using a variety of tools and equipment, including stationary power equipment
- function, uses, and role of portable and stationary power equipment in the creation of a project
- function and use of hand tools

Technology Explorations 10 (Co-Ed or Girls Only)

Students are expected to know at least six of the following from at least two curricular areas:

- project design opportunities (Woodwork 10)
- ethics of cultural appropriation in design process (Woodwork 10, Metalwork 10)
- techniques for stock breakout and woodworking using a variety of tools and equipment, including stationary power equipment (Woodwork 10)
- functions, uses, and role of portable and stationary power equipment in the creation of a project (Woodwork 10)
- function and use of hand tools (Woodwork 10)
- proper storage and organization of tools and equipment (Metalwork 10)
- selection of metal for size, shape, and finish (Metalwork 10)
- start-up, shutdown, and handling procedures for compressed gas cylinders (Metalwork 10)
- mechanical fasteners and fastening methods (Metalwork 10)
- methods for laying out, forming, and joining metal (Metalwork 10)
- computer numerical control (CNC) applications (Metalwork 10)
- electrical theory using parallel and series circuits (Electronics and Robotics 10)
- production of simple circuits from schematic drawings (Electronics and Robotics 10)
- electronic diagnostic and testing instruments (Electronics and Robotics 10)
- construction sequences involved in making a working circuit (Electronics and Robotics 10)
- function and use of hand tools & operation of stationary equipment (Electronics & Robotics 10)
- sequences involved in making a functional robot (Electronics and Robotics 10)
- robot elements (Electronics and Robotics 10)
- block-based coding or logic-based programming for robotics (Electronics and Robotics 10)
- programming platforms for robotics (Electronics and Robotics 10)
- internal and external combustion (Power Technology 10)
- disassembly and assembly sequences (Power Technology 10)
- engine terminology (Power Technology 10)
- hydraulic and pneumatic systems (Power Technology 10)
- transfer and conversion of energy (Power Technology 10)
- energy transmission and conversion systems (Power Technology 10)
- hand tools & power tools specific to mechanical repair and maintenance (Power Technology 10)
- alternate energy sources (Power Technology 10)
- drawing standards and conventions (Drafting 10)
- scales for different types of drawings (Drafting 10)
- drafting styles, including perspective, mechanical drafting, & architectural drawing (Drafting 10)
- modelling using computer-aided design (CAD) and computer-aided manufacturing (CAM) software (Drafting 10)
- coding for creating 3D representations of design solutions (Drafting 10)

Arts Education 10

Art Studio 10 (Beginner)

- elements of visual art
- principles of design
- image development strategies
- materials, techniques, and technologies
- creative processes
- use of symbols and metaphors to represent ideas and perspectives
- role of the artist and audience
- influence of visual culture on self-perception and identity
- traditional and contemporary First Peoples worldviews, stories, and history as expressed through visual arts
- role of visual art in social justice issues
- contributions of traditional, innovative, and inter-cultural artists
- ethics of cultural appropriation and plagiarism

Studio Arts 2D 10 (Drawing and Painting – Intermediate / Advanced)

- elements of visual art
- principles of design
- image development strategies
- materials, technologies, and processes
- creative processes
- use of symbols and metaphors to represent ideas and perspectives
- role of the artist and audience
- influence of visual culture on self-perception and identity
- traditional and contemporary First Peoples worldviews, stories, and practices, as expressed through 2D artistic works
- role of 2D artistic works in social justice issues
- contributions of traditional, innovative, and inter-cultural artists
- ethics of cultural appropriation and plagiarism

Studio Arts 3D 10 (Ceramics and Sculpture)

- elements of visual art
- principles of design
- image development strategies
- materials, technologies, and processes
- creative processes
- physical properties and impacts of various materials
- use of symbols and metaphors to represent ideas and perspectives
- role of the artist and audience
- influence of visual culture in media
- traditional and contemporary First Peoples worldviews, stories, and practices, as expressed through 3D artistic works
- role of 3D artistic works in social justice issues
- contributions of traditional, innovative, and inter-cultural artists
- ethics of cultural appropriation and plagiarism

Dance Foundations 10
Dance 10 Foundations 10 (Bhangra)

- elements of dance
- skills specific to a technique, genre, or style
- anatomically and developmentally sound movement principles
- rehearsal and performance skills
- choreographic forms and structures
- choreographic devices
- dance notation and vocabulary
- kinesthetic awareness
- the role of dancers, choreographers, and audiences in a variety of contexts
- contributions of key dance innovators from a variety of genres, contexts, periods, and cultures
- traditional and contemporary First Peoples worldviews and cross-cultural perspectives communicated through movement and dance
- history and theory of a variety of genres
- ethics of cultural appropriation and plagiarism
- safety protocols

Drama 10

- drama elements, principles, vocabulary, and symbols
- strategies and techniques to support creative processes
- character development
- drama forms and conventions
- skills specific to a drama genre and/or style
- the role of the performer, audience, and venue
- movement, sound, image, and form
- the influences of time and place on the emergence of dramatic works
- traditional and contemporary First Peoples worldviews and cross-cultural perspectives communicated through drama
- ethics of cultural appropriation and plagiarism

Instrumental Music 10 (Band, Guitar, Keyboards)

- elements, principles, vocabulary, symbols, and theory of music
- techniques specific to individual or families of instruments, including:
- winds
- percussion
- keyboard
- orchestral strings
- guitar

Note: Students are only expected to know techniques related to their instrument(s) of choice.

- technical skills, strategies, and technologies
- creative processes
- movement, sound, image, and form
- role of the performer, audience, and venue
- traditional and contemporary First Peoples worldviews and cross-cultural perspectives, as communicated through music
- history of a variety of musical genres
- ethics of cultural appropriation and plagiarism

Media Arts 10 (Video Production)

- elements and principles of design
- image development strategies
- media technologies
- standards-compliant technology
- a variety of image sources and genres
- common vocabulary used in media arts
- a range of materials, processes, and techniques
- media production skills:
- pre-production
- production
- post-production
- use of symbols and metaphors to represent ideas and perspectives
- First Peoples worldviews and cross-cultural perspectives, stories, and history as expressed through media arts
- local, national, global, and inter-cultural media artists
- ethical, moral, and legal considerations associated with media arts technology

Photography 10

- elements of visual art
- principles of composition
- image development strategies in photography
- materials, processes, techniques, and image-making technologies, used in one or more types of photography:
- digital photography
- darkroom photography
- alternative photographic processes
- photo chemistry (if using film) or alternative chemical processes
- creative processes
- behaviours of light:
- images formed by lenses and mirrors
- effects of translucent, transparent, and opaque objects
- ways of sensing light:
- optical instruments
- parts and functions of cameras
- role of the photographer and viewer
- influence of visual culture in social and other media
- history of photography
- traditional and contemporary First Peoples worldviews, stories, and history as expressed through photography
- ethics of cultural appropriation and plagiarism

Languages 10

Core French 10

- commonly used vocabulary and sentence structures for communication in past, present, and future time frames:
- various types of questions
- sequences of events
- degrees of likes and dislikes
- hopes, dreams, desires, and ambitions
- opinions about familiar topics
- elements of a variety of types of texts
- common elements of stories
- idiomatic expressions from across *la francophonie*
- lives of Francophone Canadians and their contributions to society
- ethics of cultural appropriation and plagiarism

Punjabi 10

- vocabulary, sentence structures, and expressions, including:
- complex questions and instructions
- activities, situations, and events
- descriptions of people, objects, places, and personal interests
- sequence of events
- elements of common texts
- common elements of stories
- past, present, and future time frames

- First Peoples perspectives connecting language and culture, including oral histories, identity, and place
- Punjabi works of art
- Punjabi media
- cultural aspects of various Punjabi communities
- contributions of Punjabi Canadians to society
- ethics of cultural appropriation and plagiarism

Spanish 10

- increasingly complex vocabulary, sentence structures, and expressions, including:
- types of questions
- activities, situations, and events
- opinions
- First Peoples perspectives connecting language and culture, including oral histories, identity, and place
- past, present, and future time frames
- elements of common texts
- common elements of stories
- idiomatic expressions from across the Hispanic world
- contributions of Hispanic Canadians to society
- Hispanic works of art
- cultural aspects of various Hispanic communities
- ethics of cultural appropriation and plagiarism

Other Grade 10 Electives

Leadership 10 (Application BAA Course – Intramural Assistance)

Communication

- How to communicate with respect and clarity through verbal, written and visual means to small groups amongst peers.
- How to actively listen and understand unique perspectives and be open to different ideas.
- Conflict resolution is a process that leads to the establishment of healthy teams. Different student ideas and opinions are valuable.

Creative and Critical Thinking

- How to undertake ethical decision making. Understand that actions have consequences and problems can be approached from different perspectives.
- How to recognize and understand leadership theory and how group dynamics are impacted.
- How to set SMART goals and introduce personal short-term goals.
- Importance of reflective practice and the effect on student learning. Students understand how personal actions and failures are assessed.

Personal and Social Connection

- How to differentiate personal leadership styles and be comfortable working within them.
- How to undertake student-centered events and activities; including how to plan, facilitate and implement small group activities with guidance.
- Develop a philosophy of service and recognize the benefits of giving back. Specifically, how individuals play an important role within healthy school communities.
- Identify and understand the cause of stressors and how the body responds. Develop strategies to minimize negative effects.

Cultural Identity

- Valuing diversity and different ways of knowing how individuals fit within their community.
- How to incorporate Indigenous ways of knowing and acknowledgments of territory. Students should understand oral traditions of sharing knowledge and recognize the value of mentorship.

Fitness and Healthy Lifestyles 10 (BAA Course)

- Principles of physical fitness and personal fitness
- Lifelong goals and fitness goal relationships
- The Activity Pyramid
- Exercise safety and etiquette
    - Breathing
    - Proper use of equipment and facilities
    - Spotting and working out with a partner
    - Injury prevention and rehabilitation
- Nutritional requirements and the Food Pyramid
- Calorie In and Calorie Out relationship
- Nutritional planning specific to activity levels and intensity
- Body weight specific training
- Connecting perceived exertions levels to heart rate and monitoring
- Identify the relationship and describe application of anaerobic and aerobic training
- Personalized exercise planning and implementation
- The types and role of fitness testing

- Testing and adapting training to specific activity and intensity
- Major musculoskeletal system and basic movement
- Contraction and relaxation stages of the muscles
- Application of single plane and multi-plane resistance training
- Application of Range of Motion training
- Benefits and disadvantages of methods of monitoring range of motion
- Relationship building and development through fitness
- Fitness opportunities within one’s community
- Connection between mental health and physical health
- The relationship of one's-self, body image, and self-esteem to fitness

Grade 11

Each grade 11 student in mainstream classes should have completed the grade 10 graduation requirements. If not, they must take these as elective courses.

Grade 11 mainstream students take the following courses:

Career Life Connections (take in grade 11 or 12)	**English 11** One of: • Composition • Literary Studies	**Math 11** One Of: • Foundations Mathematics • Pre-Calculus • Workplace Mathematics	**Science 11** One Of: • Chemistry • Life Sciences • Physics • Science for Citizens • Multiple sciences may be taken as electives	**Social Studies 11/12** One Of: • Socials Explorations 11 • Asian Studies • History (20th Century History) • Human Geography • Law Studies • Social Justice • Multiple Social Studies classes may be taken as electives

Career Education

Career Life Connections 12 (Semestered or Hybrid)

Personal career-life development
- mentorship opportunities
- competencies of the educated citizen
- self-advocacy strategies
- factors that shape personal identity and inform career-life choices
- strategies for personal well-being and work-life balance
- reflection strategies
- employment marketing strategies
- rights and regulations in the workplace, including safety

Connections with community
- social capital and transferrable skills, including intercultural, leadership, and collaboration skills
- career-life exploration
- ways to represent themselves, including consideration of personal and public profiles, digital literacy, and citizenship

Career-life planning
- self-assessment to achieve goals that advance preferred career-life futures
- methods of organizing and maintaining authentic career-life evidence
- career-life roles and transitions
- diverse post-graduation possibilities, including personal, educational, and work options
- labour market trends and local and global influences on career-life choices
- post-graduation budget planning
- capstone guidelines
- approaches to showcasing the learning journey

English Language Arts 11

Composition 11

Text forms and genres
- Text features and structures
- form, function, and genre of texts
- narrative structures found in First Peoples texts
- protocols related to the ownership of First Peoples oral texts

Strategies and processes
- reading strategies
- oral language strategies
- metacognitive strategies
- writing processes

Language features, structures, and conventions
- language features
- elements of style
- usage and conventions
- citation techniques
- literary elements and devices

Literary Studies 11

Text forms and genres
- Text features and structures
- form, function, and genre of texts
- elements of visual/graphic texts
- narrative structures found in First Peoples texts
- protocols related to the ownership of First Peoples oral texts

Strategies and processes
- reading strategies
- oral language strategies
- metacognitive strategies
- writing processes
- design processes

Language features, structures, and conventions
- elements of style
- usage and conventions
- citation techniques
- literary elements and devices
- literal meaning and inferential meaning

Mathematics 11

Foundations of Mathematics 11
- forms of mathematical reasoning
- angle relationships
- graphical analysis:
- linear inequalities
- quadratic functions
- systems of equations
- optimization
- applications of statistics
- scale models
- financial literacy: compound interest, investments and loans

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Pre-calculus 11
- real number system
- powers with rational exponents
- radical operations and equations
- polynomial factoring
- rational expressions and equations
- quadratic functions and equations
- linear and quadratic inequalities
- trigonometry: non-right triangles and angles in standard position
- financial literacy: compound interest, investments, loans

Workplace Mathematics 11
- financial literacy: personal investments, loans, and budgeting
- rate of change
- how probability and statistics are used in different contexts
- interpreting graphs in society
- 3D objects: angles, views, and scale diagrams

Science 11

Chemistry 11
- quantum mechanical model and electron configuration
- valence electrons and Lewis structures
- chemical bonding based on electronegativity
- bonds/forces
- organic compounds
- applications of organic chemistry
- the mole
- dimensional analysis
- reactions
- stoichiometric calculations using significant figures
- local and other chemical processes
- green chemistry
- solubility of molecular and ionic compounds
- stoichiometric calculations in aqueous solutions
- analysis techniques

Life Sciences 11
- levels of organization
- cell structure and function
- sexual and asexual reproduction
- energy transformations in cells
- viruses
- First Peoples understandings of interrelationships between organisms
- microevolution:
  - adaptation to changing environments
  - changes in DNA
  - natural selection
- macroevolution:
  - speciation
  - processes of macroevolution
  - evidence for macroevolution
- artificial selection and genetic modifications

- single-celled and multi-celled organisms
- trends in complexity among various life forms
- evidence for phylogenetic relationships
- taxonomic principles for classifying organisms
- binomial nomenclature
- First Peoples knowledge on classification
- similarities and differences between domains and kingdoms

Physics 11

- vector and scalar quantities
- horizontal uniform and accelerated motion
- projectile motion
- contact forces and the factors that affect magnitude and direction
- mass, force of gravity, and apparent weight
- Newton's laws of motion and free-body diagrams
- balanced and unbalanced forces in systems
- conservation of energy; principle of work and energy
- power and efficiency
- simple machines and mechanical advantage
- applications of simple machines by First Peoples
- electric circuits (DC), Ohm's law, and Kirchhoff's laws
- thermal equilibrium and specific heat capacity
- generation and propagation of waves
- properties and behaviours of waves
- characteristics of sound
- resonance and frequency of sound
- graphical methods in physics

Science for Citizens 11

- evidence-based decision making through science
- personal and public health practices, including First Peoples traditional health and healing practices
- impact of technologies
- personal safety and awareness
- workplace safety
- certifications
- practical applications of science in workplace
- impacts of technology in the workplace
- applications of materials science
- beneficial scientific innovations
- natural hazards and responses
- human impact on Earth's systems:
  - natural resources
  - effects of climate change
- actions and decisions affecting the local and global environment, including those of First Peoples

Social Studies

Explorations in Social Studies 11

*Students are expected to know **at least three** of the following from various Grade 12 Socials Courses):*

- social, cultural, or technological innovations and developments in the 20th century (adapted from 20th Century World History)
- colonialism and contemporary issues for indigenous people in Canada and around the world (adapted from Contemporary Indigenous Studies)
- current issues in local, regional, national, or global politics as represented in mass media (adapted from Political Studies)
- natural resource use and local, regional, national, or global development (adapted from Human Geography)
- economic development in Asia (adapted from Asian Studies – 1850-present)
- systems of power and governance in global cultures (adapted from Comparative Cultures)
- diversity of B.C. First Peoples territories and communities (adapted from B.C. First Peoples)
- rights of individuals in Canada (adapted from Law Studies)
- representations of natural and human-made phenomena (adapted from Physical Geography)
- methods used by individuals, groups, and organizations to promote social justice (adapted from Social Justice)
- fundamental nature of knowledge, existence, and reality (adapted from Philosophy)
- sacred texts, traditions, and narratives of cultures (Comparative World Religions)
- contemporary theories of money and investment (from Economic Theory)
- recognition of and responses to genocide (from Genocide Studies)
- global issues in urbanization (adapted from Urban Studies)

Asian Studies 12

- resource distribution and physiographic features
- demography, migration, urbanization, and environmental issues
- industrialization, globalization, economic systems, and distribution of wealth
- development, structure, and function of political and social institutions
- social and political movements, including human rights initiatives
- local, regional, and global conflict and co-operation
- local, regional, and national identities

History (20th Century World History)

- authoritarian regimes
- civil wars, independence movements, and revolutions
- human rights movements, including indigenous peoples movements
- religious, ethnic, and/or cultural conflicts, including genocide
- global conflicts, including World War I, World War II, and the Cold War
- migrations, movements, and territorial boundaries
- interdependence and international co-operation
- social and cultural developments
- communication and transportation technologies

Human Geography 12

- demographic patterns of growth, decline, and movement
- relationships between cultural traits, use of physical space, and impacts on the environment
- relationship between First Peoples and the environment
- global agricultural practices
- industrialization, trade, and natural resource demands
- factors behind increased urbanization and its influence on societies and environments
- relationships between natural resources and patterns of population settlement and economic development
- political organization of geographic regions

Law Studies 12

- the Constitution of Canada and the Canadian Charter of Rights and Freedoms
- structures and powers of the federal and provincial courts and administrative tribunals
- key areas of law such as criminal law, civil law, and family, children's, and youth law
- Canadian legislation concerning First Peoples
- indigenous legal orders and traditional laws in Canada and other global jurisdictions
- Canada's correctional system and principles of rehabilitation, punishment, and restoration
- structures and roles of global dispute resolution agencies and courts

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Social Justice 12

- definitions, frameworks, and interpretations of social justice
- self-identity and an individual's relationship to others
- social justice issues
- social injustices in Canada and the world affecting individuals, groups, and society
- governmental and non-governmental organizations in issues of social justice and injustice
- processes, methods, and approaches individuals, groups, and institutions use to promote social justice

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Each grade 11 student gets to take **3-4 elective classes.** These can include additional Science or Social Studies Courses, or any Courses from the areas below.

ADST 11	**Arts Education 11**	**Modern Languages 11**	**Other 11**
Business / Computers	Dance	French	Active Living
Home Economics	Drama	Punjabi	Leadership
Technology Education	Music	Spanish	Peer Tutoring
	Visual Arts		Psychology

Applied Design Skills and Technology 11

Business / Computers:

Accounting 11

- role of accounting in business
- the accounting cycle
- accounting principles
- accounting equation
- relationship between debit and credit entries
- source documents, general journals, ledgers, accounts payable and receivable, and trial balances, and the relationships between them
- special journals
- chart of accounts
- preparation process of financial documents and statements
- financial decision making using financial documents
- coordination and facilitation skills for projects and processes
- interpersonal and presentation skills to promote products or services and to interact with potential customers/clients
- career options and opportunities in various accounting sectors
- industry best practices

Marketing and Promotion 11

- marketing and promotion opportunities within the local community
- role of advertising in domestic and international contexts
- marketing processes, including the AIDA (Attention, Interest, Desire, Action) model
- social marketing and ethical marketing, including the ethics of cultural appropriation
- marketing and promotion strategies, including test marketing, segmentation, targeting, and positioning
- ways to improve marketability of products and services
- types of advertising that can influence diverse target market groups offline and online
- risk assessment associated with marketing products and services
- influence of corporate sponsorship, including naming rights
- event planning, coordination, and facilitation skills
- interpersonal and public relations skills to promote products or services and to interact with potential customers
- career options in marketing and promotions

Computer Information Systems 11

- design opportunities
- evolution of computer technology, including hardware, software, networks, and the Internet
- lab procedures, electrical safety, and appropriate tool use
- internal and external components of computer systems, including peripheral devices
- computer troubleshooting, including the incorporation of digital tools to aid and assist with research and diagnostics
- computer assembly and disassembly best practices
- ongoing preventive maintenance, including data security and online/offline backup solutions
- installation and configuration of operating systems
- proprietary versus open-source applications
- software installations and configurations
- use of correct terminology to describe the units, rates, and encoding of data communication

- network planning, setup, and diagnostics
- key aspects of network protocols and standards
- laptops and mobile device technology
- design for the life cycle
- careers in information and communication technology (ICT), including roles and responsibilities of ICT professionals
- future technologies and potential societal impacts
- appropriate use of technology, including digital citizenship, etiquette, and literacy

Computer Programming 11

- design opportunities
- design cycle
- problem decomposition
- structures within existing code
- ways to modify existing code to meet a particular purpose
- strategies to predict effects of code modification
- pair programming
- programming language constructs to support input/output, logic, decision structure, and loops
- requirements of a problem statement
- ways to transform requirements into algorithms
- translation of design specifications into source code
- tools to aid in the development process
- pre-built libraries and their documentation
- inline commenting to document source code
- use of test cases to detect logical or semantic errors
- computational thinking processes
- appropriate use of technology, including digital citizenship, etiquette, and literacy

Media Arts 11 (Application Course – Yearbook)

- elements and principles of design
- image development strategies
- media technologies
- standards-compliant technology
- a variety of image sources and genres
- common terminology used in media arts
- materials, processes, and techniques of media arts
- symbols and metaphors
- influences of visual culture in media arts
- local, national, global, and intercultural media artists and genres
- ethical, moral, and legal considerations associated with media arts technology
- moral rights, and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures
- media production skills:
  - pre-production
  - production
  - post-production

Home Economics 11:

Food Studies 11

- meal and recipe design opportunities
- components of recipe development and modification, including
- ingredients
- functions
- proportions
- temperatures
- preparation methods
- issues involved with food security, including causes and impacts of food recalls
- factors involved in the creation of international and regional food guides
- First Peoples food guides
- ethics of cultural appropriation
- food labelling roles and responsibilities of Canadian government agencies and food companies
- food promotion and marketing strategies and their impact on specific groups of people

Interpersonal and Family Relationships 11

- service design opportunities for individuals and families across their lifespan
- factors involved in interpersonal relationships, including types, roles, and functions
- nature of committed relationships, including the influences of community and culture
- factors involved in ending relationships
- components of healthy relationships and how to thrive and reciprocate in a variety of interpersonal relationships

- indicators of unsafe relationships and actions to ensure safety of self and others
- interpersonal relationship communication styles and strategies
- cultural sensitivity and etiquette, including ethics of cultural appropriation
- problem-solving models

Textiles 11

- simple textile designs
- physical and chemical properties of fabrics, including technological developments
- strategies for modifying patterns
- techniques for repurposing textile items
- various factors that affect the selection of textile items, including the elements and principles of design and textile functionality
- symbolism and use of symbols in textile prints and designs, including ethics of cultural appropriation
- economical and ethical factors and considerations in textile production and consumption
- influence of marketing and advertising on textile design, choice, and consumption
- design for the life cycle

Technology Education 11:

Automotive Technology 11

- simple automotive repair and maintenance
- social, legal, and ethical responsibilities associated with vehicle operation
- use of technical information and manuals for the purpose of diagnostics and repair
- fundamental automotive tools and equipment
- lifting equipment and procedures
- chassis and body
- engine diagnostic support systems
- emerging and alternative energy sources used to power automotive vehicles
- fundamentals of engine operation
- vehicle systems
- vehicle safety systems
- design for the life cycle

Metalwork 11, Metalwork 11 – Art Metal and Jewellery: Co-ed or Girls Only

- simple metalworking and design
- orthographic and pictorial drawings
- measuring instruments
- tables and charts for tolerancing and machining
- operation and safety of stationary power equipment and stationary non-power equipment in the processing of material
- size and layout of metal
- types of metals and alloys and their characteristics
- selection of metal type, size, structural shape, and finish for specific applications
- ferrous and non-ferrous metals and their applications
- heat treatments
- welding and cutting
- common mechanical fastening methods
- forging and foundry applications
- design for the life cycle
- ethics of cultural appropriation in design process

Woodwork 11

- simple woodworking and design
- orthographic and pictorial drawings
- preparation of a bill of materials and a cutting list
- measuring instruments
- problem-solving techniques using ratio, proportion, and geometry
- selection and identification of wood species appropriate for a given purpose
- material conservation and sustainability
- operation of stationary power equipment in the processing of material
- hand-tool processes in the creation of a product
- machine and equipment set up, change, and adjustment
- project finishing methods
- design for the life cycle
- ethics of cultural appropriation in design process

Arts Education 11

Art Studio 11 (Beginner)

- elements of visual art
- principles of design
- image development strategies

- materials, techniques, and technologies for visual art
- creative processes
- symbols and metaphors
- roles of artist and audience
- influences of visual culture in social and other media
- traditional and contemporary First Peoples worldviews, stories, and history, as expressed through visual arts
- moral rights and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Studio Arts 2D 11 (Drawing and Painting – Intermediate / Advanced)

- elements of visual art
- principles of design
- image development strategies
- materials, technologies, and processes for 2D artistic works
- creative processes
- symbols and metaphors
- roles of artist and audience
- influences of visual culture in social and other media
- traditional and contemporary First Peoples worldviews, stories, practices, and history, as expressed through 2D artistic works
- contributions of traditional, innovative, and intercultural artists from a variety of movements and periods
- moral rights, and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Studio Arts 3D 11 (Ceramics and Sculpture)

- elements of visual art
- principles of design
- image development strategies
- materials, technologies, and processes for 3D artistic works
- creative processes
- physical properties and impacts of various materials
- symbols and metaphors
- roles of artist and audience
- influences of visual culture in social and other media
- traditional and contemporary First Peoples worldviews, stories, and practices, as expressed through 3D artistic works
- contributions of traditional, innovative, and intercultural artists from a variety of movements, and periods
- moral rights, and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Dance 11 Foundations (Mainstream or Bhangra)

- elements of dance
- skills specific to a technique, genre, or style
- anatomically and developmentally sound movement principles
- rehearsal and performance skills
- choreographic forms and structures
- choreographic devices
- dance notation and vocabulary
- dance forms
- contributions of key dance innovators from a variety of genres
- local, national, and intercultural performers and genres
- traditional and contemporary First Peoples worldviews and cross-cultural perspectives communicated through movement and dance
- ethics of cultural appropriation and plagiarism
- safety protocols

Drama 11

- dramatic elements, principles, vocabulary, and symbols
- strategies and techniques to support creative processes
- character development
- dramatic forms and conventions
- skills specific to a dramatic genre and/or style
- roles of performer, audience, and venue
- movement, sound, image, and form
- influences of time and place on dramatic works
- artists from a variety of genres and cultures
- a range of local, national, and intercultural performers and movements
- traditional and contemporary First Peoples worldviews, history, and stories communicated through dramatic works

- history of a variety of dramatic genres, including their roles in historical and contemporary societies
- ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Media Arts 11 (Video Production)

- elements and principles of design
- image development strategies
- media technologies
- standards-compliant technology
- a variety of image sources and genres
- common terminology used in media arts
- materials, processes, and techniques of media arts
- media production skills:
- pre-production
- production
- post-production
- symbols and metaphors
- influences of visual culture in media arts
- local, national, global, and intercultural media artists and genres
- ethical, moral, and legal considerations associated with media arts technology
- moral rights, and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Instrumental Music 11 (Band, Guitar, Keyboards) *Students only expected to know techniques related to their instrument(s) of choice*

- musical elements, principles, vocabulary, symbols, and theory
- techniques specific to individual or families of instruments, including:
  - winds
  - percussion
  - keyboard
  - orchestral strings
  - guitar
- technical skills, strategies, and technologies
- creative processes
- movement, sound, image, and form
- influences of time and place on the emergence of musical forms
- roles of performer, audience, and venue
- traditional and contemporary First Peoples worldviews and cross-cultural perspectives, as communicated through music
- contributions of innovative artists from a variety of genres, contexts, periods,cultures
- history of a variety of musical genres
- ethics of cultural appropriation and plagiarism
- health and safety issues and procedures

Photography 11

- elements of visual art
- principles of composition
- image development strategies in photography
- photographic materials, techniques, processes, and image-making technologies, used in one or more types of photography:
- digital photography
- darkroom photography
- alternative photographic processes
- photographic chemistry (for film) or alternative chemical processes
- creative processes
- behaviours of light
- principles of light
- ways of sensing light:
- optical instruments
- parts and functions of cameras and accessories
- roles of photographer and viewer
- symbols and metaphors in photography
- influences of visual culture in social and other media
- traditional and contemporary First Peoples worldviews, stories, and history, as expressed through photography
- moral rights, and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Languages 11

Core French 11

- commonly used vocabulary and sentence structures for communication in past, present, and future time frames:
- questions
- sequences of events
- predictions
- personal experiences
- opinions
- comparisons and contrasts
- elements of a variety of types of texts
- register and language etiquette
- idiomatic expressions from across *la francophonie*
- ethics of cultural appropriation and plagiarism

Punjabi 11

- increasingly complex vocabulary, sentence structures, and expressions, including:
- complex questions
- sequence of events in stories
- a diverse range of personal experiences, lifestyles, and relationships
- explanation and justification of opinions
- points of view
- First Peoples perspectives connecting language and culture, including oral histories, identity, and place
- past, present, and future time frames
- language formality and etiquette
- the impact of historical events on Punjabi language and culture
- connections between language and culture
- Punjabi works of art
- contributions of Punjabi communities and Punjabi Canadians to Canada
- ethics of cultural appropriation and plagiarism

Spanish 11

- increasingly complex vocabulary, sentence structures, and expressions, including:
- complex questions
- sequence of events in stories
- personal lifestyles and relationships
- explanation and justification of opinions
- points of view
- First Peoples perspectives connecting language and culture, including oral histories, identity, and place
- past, present, and future time frames
- language formality and etiquette
- distinguishing features of major Spanish and Hispanic regional dialects
- Hispanic works of art
- ethics of cultural appropriation and plagiarism

Other Grade 11 Electives

Physical and Health Education

Active Living 11 (Co-Ed, Girls Only, Leadership – Application Required)

- Health and well-being
- the role of nutrition and how it can affect health and performance
- potential short- and long-term consequences of health decisions
- benefits of physical activities for health and mental well-being
- Safety
- physical activity safety and etiquette
- injury prevention and management
- Participation
- proper physical movement patterns, including non-locomotor, locomotor, and manipulative skills
- ways to monitor and adjust physical exertion levels
- rules and guidelines for different types of sports and activities
- potential barriers to participation

Fitness and Conditioning 11

- anatomical terminology
- skeletal system, including bones and joints
- ways to train the muscular and cardiovascular systems
- different types of muscle, including cardiac and skeletal muscle
- relationships between energy systems and muscle fibre types
- different types and functions of connective tissue
- components of an exercise session
- exercise safety and etiquette
- ways to monitor and adjust physical exertion levels, including heart-rate monitoring and repetition ranges
- principles of program design, including training principles to enhance personal fitness levels, such as the FITT principle, SAID principle, and specificity
- effects of different types of fitness activities on the body
- sources of health information
- influences of food choices and eating patterns on physical performance
- performance-enhancing supplements and drugs

Leadership 11 (Application Course – Intramural Assistance – BAA Course)

Communication

- How to communicate with respect and clarity through verbal, written and visual means to small groups amongst peers.
- How to actively listen and understand unique perspectives and be open to different ideas.
- Conflict resolution is a process that leads to the establishment of healthy teams. Different student ideas and opinions are valuable.

Creative and Critical Thinking

- How to undertake ethical decision making. Understand that actions have consequences and problems can be approached from different perspectives.
- How to recognize and understand leadership theory and how group dynamics are impacted.
- How to set SMART goals and introduce personal short-term goals.
- Importance of reflective practice and the effect on student learning. Students understand how personal actions and failures are assessed.

Personal and Social Connection

- How to differentiate personal leadership styles and be comfortable working within them.
- How to undertake student-centered events and activities; including how to plan, facilitate and implement small group activities with guidance.
- Develop a philosophy of service and recognize the benefits of giving back. Specifically, how individuals play an important role within healthy school communities.
- Identify and understand the cause of stressors and how the body responds. Develop strategies to minimize negative effects.

Cultural Identity

- Valuing diversity and different ways of knowing how individuals fit within their community.
- How to incorporate Indigenous ways of knowing and acknowledgments of territory. Students should understand oral traditions of sharing knowledge and recognize the value of mentorship.

Weight Training 11 (BAA Course)

- Exercise safety and etiquette – breathing techniques, proper use of equipment and facilities, spotting and working out with a partner
- Anatomical terminology, including terms of reference, planes of motion and joint movements, biomechanics
- Skeletal system – bones, types of joints
- Types of muscle fibres – fast twitch, slow twitch
- Types of muscle contractions – concentric, eccentric
- Principles of Training – Progression, Reversibility, Overload, Adaptation, Individuality, Specificity
- Progressions – drop sets, , supersets
- Energy Zones – aerobic, anaerobic, resting, heart rate recovery, tempo, perceived exertion
- Routines – push/pull, upper/lower, functional training, full body, split routines

- Goals of Weight Training –Strength, Endurance,
- Injuries – D.O.M.S, S.H.A.R.P, P.I.E.,
- Body Types – Body Image, Genetic Potential
- Nutrition –Supplements (myths and fads), dietary influences on training & individual body types
- Current trends and innovation in weight training
- Resistance bands, Balance Boards, BOSU, Med Balls, Slam Balls
- Sources of information include weight training books, magazines, apps, websites, and advertisements
- Ways to mentor and adjust weight training program

Peer Tutoring 11 (BAA Course)

- What executive functioning is and how it is developed
- Steps and strategies to direct, maintain and shift student focus
- The positive behaviours and work habits that contribute to a safe and healthy community in the classroom
- Confidentiality rules and how to respect boundaries
- How to use available assistive technologies and resources
- Problem-solving strategies and skills
- Making personal connections can create life-long learners

Psychology 11 (BAA Course – DOES NOT MEET SOCIALS GRADUATION REQUIREMENT)

- Major figures and their contributions to the development of the field of psychology
- Aims and goals of psychology as a discipline in historical and contemporary society
- Theories and systems of understanding the human mind, behavior, or motivation including (but not limited to) psychoanalysis, behaviorism, and humanism
- Sociocultural norms and their impact on human behavior and attitudes
- Human development in three major categories: physical (biological), cognitive (intellectual), social-emotional (affective)
- Childhood developmental theories, including those related to attachment, parenting, and stage models
- Role of nature (genetics, heredity) versus nurture (environment, experience) in human development
- Research methods (quantitative/qualitative) and their applications; research ethics and integrity
- Neuroscience: major parts and functions of the brain; role of the central and peripheral nervous system
- Addiction; understanding the brain and its connection to addiction
- Learning; intelligence; memory; conditions that impact learning processes (i.e. LD, dyslexia)
- Nutrition and its relationship to cognitive performance, mental health, and overall health
- Positive psychology and the science of happiness

Grade 12

Each grade 12 student in mainstream classes should have completed the grade 10 and 11 graduation requirements. If not, they must take these as elective courses. Each grade 12 student in mainstream classes takes the following courses:

Any Missing Graduation Requirements	English Studies 12 or English First People's 12

English Studies 12

Text forms and genres
- Reconciliation in Canada
- Text features and structures
- form, function, and genre of texts
- elements of visual/graphic texts
- narrative structures found in First Peoples texts
- protocols related to the ownership of First Peoples oral texts
- the legal status of First Peoples oral tradition in Canada

Strategies and processes
- reading strategies
- oral language strategies
- metacognitive strategies
- writing processes
- presentation techniques
- multimodal reading strategies

Language features, structures, and conventions
- elements of style
- usage and conventions
- citation techniques
- literary elements and devices

English First Peoples 12 *(satisfies Indigenous graduation requirement if not completed in grade 10)*

A wide variety of BC, Canadian, and global First Peoples texts

A wide variety of text forms and genres

Common themes in First Peoples literature

Reconciliation in Canada

First Peoples oral traditions
- the legal status of First Peoples oral traditions in Canada
- purposes of oral texts
- the relationship between oral tradition and land/place

Protocols
- protocols related to ownership and use of First Peoples oral texts
- acknowledgement of territory
- situating oneself in relation to others and place
- processes related to protocols and expectations when engaging with First Nations communities and Aboriginal organizations

Text features and structures
- narrative structures, including those found in First Peoples texts
- form, function, and genre of texts
- elements of visual/graphic texts

Strategies and processes
- reading strategies
- oral language strategies
- metacognitive strategies
- writing processes
- presentation techniques

Language features, structures, and conventions
- features of oral language
- elements of style
- language change
- syntax and sentence fluency
- rhetorical devices
- usage and conventions
- literary elements and devices
- literal and inferential meaning
- persuasive techniques
- citations and acknowledgements

Grade 12 mainstream students will complete all of their other courses (besides English) as electives.

ADST 12	**Arts Education 12**	**Languages 12**	**Math 12**
• Business / Computers • Home Economics • Technology Education	• Dance • Drama • Music • Visual Arts	• French • Punjabi • Spanish	• Foundations of Mathematics • Pre-Calculus Calculus

Other 12	**Physical and Health Education 12**	**Science 12**	**Social Studies 12**
• Peer Tutoring • Psychology	• Active Living • Fitness and Conditioning • Leadership • Weight Training	• Chemistry • Life Sciences • Physics	• Asian Studies • History (20th Century History) • Human Geography • Law Studies • Social Justice

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Applied Design Skills and Technology 12

Business / Computers:

Accounting 12

- financial reporting for sole proprietorships, partnerships, co-operatives, and corporations
- accounting principles and practices
- basic payroll processes
- inventory systems best suited for different business models
- detailed ledger accounts
- periodic and perpetual inventory methods
- accounts receivable, accounts payable
- specialized accounting journals
- account reconciliation
- internal controls established to protect assets and ensure accuracy
- coordination and facilitation skills for projects and processes
- interpersonal and presentation skills to promote products or services and to interact with potential customers/clients
- industry best practices
- career options and opportunities in various accounting sectors

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E-Commerce 12

- entrepreneurship opportunities
- creative ways to add value to an existing idea or product
- the evolution and nature of e-commerce
- local and global retail e-commerce environments
- the economics of e-commerce
- revenue models
- development and evolution of the digital retail environment
- cyber marketing concepts and strategies
- ethical marketing strategies
- distribution channels for digital businesses
- digitally procured goods and services
- digital and cloud-based technologies
- interpersonal and presentation skills to promote products or services and to interact with potential customers/clients
- industry best practices
- emerging career options and opportunities in the digital sector and for young entrepreneurs
- ethics of cultural appropriation and plagiarism

Computer Information Systems 12

- design opportunities
- global and societal shifts resulting from emerging technologies, the Internet, and the ubiquity of online access
- environmental impacts of technology consumption
- design for the life cycle
- personalized online portfolios

- awareness and understanding of digital security risks
- advanced hardware and software troubleshooting techniques
- interpersonal skills necessary to work effectively within the IT sector
- design requirements of network devices, cabling, test equipment, management plans, operation manuals and documentation, deployment strategies, ongoing upgrades, maintenance, and security
- network management tools, including security, imaging, backup, and remote access
- functional and operational differences between hardware servers
- virtual terminal applications
- command line operations
- appropriate use of technology, including digital citizenship, etiquette, and literacy

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Computer Programming 12

- design opportunities
- design cycle
- advanced programming structures
- standardized source code documentation
- self-documenting code
- collaboration tools for programming
- advanced pair programming
- User interface design
- error handling
- debugging tools
- management of complexity
- uses of pre-built data structures
- bug reports and feature requests from users
- appropriate use of technology, including digital citizenship, etiquette, and literacy
- interpersonal skills necessary to work effectively within the IT sector

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Media Design 12 (Yearbook 12 – Application Course)

- design opportunities
- media technologies for image development and design and for manipulating selected visual elements
- media production to enhance, alter, or shape the technical elements of a project
- development, maintenance, and evolution of voice in storytelling
- ethical, moral, and legal considerations associated with using media arts technology for image, video, and sound development, including cultural appropriation
- image-development strategies and image manipulation in order to create, respond to, or challenge design problems
- role of media design in reflecting, sustaining, and challenging beliefs and traditions
- ways in which content and form influence and are influenced by historical, social, and cultural contexts
- ways that innovative technologies reflect the complexity of social, environmental, and ethical concerns of the 21st century
- developments in media design that incorporate the audience as active participants in the construction and evolution of content
- characteristics and influences of various designers, movements, and periods
- ways to use elements of design and principles of design to convey a message, create an effect, and/or influence personal preference
- technical, stylistic, symbolic, and cultural influences and their intentional use to target audiences
- use of form, content, and visual and sound effects to achieve a specific emotional response in a target audience
- media use for social advocacy and for exploration of First Peoples perspectives in Canada
- design for the life cycle
- interpersonal skills, including ways to interact with clients
- appropriate use of technology, including digital citizenship, etiquette, and literacy

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Home Economics:

Food Studies 12

- complex meal and recipe design opportunities
- components of multi-course meal development and preparation
- food justice in the local and global community
- legislation, regulations, and agencies that influence food safety and food production
- factors involved in regional and/or national food policies
- perspectives in indigenous food sovereignty

- ethics of cultural appropriation
- nutrition and health claims and how they change over time
- nature and development of food philosophies by individuals and groups
- future career options in food service and production
- interpersonal and consultation skills

Textiles 12

- complex textile designs
- relationship between fibre content, fabric type, and textile use
- methods for designing patterns
- textile manipulation techniques
- regulations and agencies that influence production, labelling, and distribution of textile items
- historical uses of textile items and their influence on modern textile use
- First Peoples historical and current textile knowledge and practices
- ethical and environmental issues in the production and marketing of textile items, including cultural appropriation
- forecasting practices and how they are used in the development and creation of textile items
- design for the life cycle
- future career options in textile design, production, and distribution
- interpersonal and consultation skills, including ways to interact with clients

Child Development and Caregiving

- service design opportunities that include child development and caregiving
- legal rights and responsibilities of caregivers, including ensuring children's welfare and safety
- pregnancy, including health practices for conception and during pregnancy, prenatal development, and methods of childbirth and delivery
- theories of child development, including cultural influences, and how and why theories change over time
- stages of child development from birth to age 12, including cognitive, social, physical, and emotional development, and language and speech
- role of play in human development and learning
- nutritional needs and feeding practices for children of various ages, including external influences on these practices
- theories of caregiving styles and impacts on child development
- child care options locally and internationally, influences on these options, and community resources that offer services to children and caregivers
- service strategies for children and families
- cultural sensitivity and etiquette, including ethics of cultural appropriation

***Technology Education*:**

Art Metal and Jewellery 12 (Co-ed, Girls Only)

- traditional and modern techniques in jewellery design and creation
- use of artistic elements and image design to create emotional response and convey ideas
- concepts related to the creation of art with the primary medium of metal and alloys
- incorporation of other materials to enhance the final product
- use, purpose, and traditions of high-value materials
- various forms of casting
- detail-oriented welding
- material selection for specific applications
- application and purpose of finishes and polishes
- carving media for transfer to metal
- layout and use of materials to minimize waste and conserve material
- uses of power and non-power tools
- design for the life cycle
- ethics of cultural appropriation in design process
- future career options and opportunities in metalworking and jewellery creation
- interpersonal and consultation skills to interact with clients

Automotive Technology 12

- complex automotive repair and maintenance
- vehicle inspection standards
- advanced automotive tools and equipment
- engine and vehicle modifications
- vehicle diagnostic and assessment methods
- transmission and gearing functions
- electrical and control systems
- mechanical systems
- fuel systems
- serviceability, overhaul, and repair
- design for the life cycle
- career options and opportunities in automotive technology
- interpersonal skills for interacting with clients and customers

Metalwork 12

- complex metalworking and design
- operation and safety of welding equipment
- casting methods
- incorporation of non-metal material in metalwork products
- finishing purposes and processes
- metal selection for specific applications
- sequence of steps when working with powered and non-powered equipment
- dimensional tolerance
- operation, maintenance, and adjustment of stationary powered and non-powered equipment
- areas of metal specialization
- sheet metal layout, forming, and fabrication
- heat treatment purposes and processes
- design for the life cycle
- ethics of cultural appropriation in design process
- future career options and opportunities in metalworking contexts
- interpersonal and consultation skills to interact with clients

Woodwork 12

- complex woodworking and design
- creation and use of working pictorial and written plans
- wood-related materials
- selection of wood based on its characteristics and properties
- layout and use of materials to minimize waste and conserve material
- operation, maintenance, and adjustment of stationary power equipment
- types and purposes of joinery
- analysis and identification of defects in wood
- methods for preparing wood surfaces for application of finish
- identification and analysis of building codes for applicable projects
- sequence of steps when working with power equipment
- sharpening procedures
- types, purposes, and application of finishes
- design for the life cycle
- ethics of cultural appropriation in design process
- future career options and opportunities in woodworking contexts
- interpersonal and consultation skills to interact with clients

Arts Education 12

Art Studio 12 (Beginner)

- elements of visual art
- principles of design
- image development strategies
- materials, techniques, and technologies
- creative processes
- symbols and metaphors
- roles of and relationships between artist and audience in a variety of contexts
- influences of visual culture in social and other media
- traditional and contemporary First Peoples worldviews, stories, and history, as expressed through visual arts
- history of a variety of artistic movements, including their roles in historical and contemporary societies
- moral rights and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Studio Arts 2D 12 (Intermediate / Advanced)

- elements of visual art
- principles of design
- image development strategies
- materials, technologies, and processes for 2D artistic works
- creative processes
- symbols and metaphors
- roles of and relationships between artist and audience in a variety of contexts
- influences of visual culture in social and other media
- traditional and contemporary First Peoples worldviews, stories, practices, and history, as expressed through 2D artistic works
- contributions of traditional, innovative, and intercultural visual artists from a variety of movements, contexts, and periods
- history of a variety of artistic movements, including their roles in historical and contemporary societies
- moral rights, and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Studio Arts 3D 12 (Ceramics and Sculpture)

- elements of visual art
- principles of design
- image development strategies
- materials, technologies, and processes for 3D artistic works
- creative processes
- physical properties and impacts of various materials
- First Peoples relationship with the land and natural resources as revealed through 3D artistic works
- symbols and metaphors
- roles and relationships of artist and audience in a variety of contexts
- influences of visual culture in social and other media
- traditional and contemporary First Peoples worldviews, stories, and practices, as expressed through 3D artistic works
- contributions of traditional, innovative, and intercultural artists from a variety of movements, contexts, and periods
- moral rights, and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Dance Foundations 12 (Mainstream or Bhangra)

- elements of dance
- skills specific to a technique, genre, or style
- anatomically and developmentally sound movement principles
- rehearsal and performance skills
- choreographic forms and structures
- choreographic devices
- dance notation and vocabulary
- dance forms
- contributions of key dance innovators from a variety of genres, cultures, and periods
- local, national, global, and intercultural performers, movements, and genres
- traditional and contemporary First Peoples worldviews and cross-cultural perspectives communicated through movement and dance
- history and theory of dance genres, including their role in historical and contemporary societies
- ethics of cultural appropriation and plagiarism
- safety protocols

Drama 12

- dramatic elements, principles, vocabulary, and symbols
- strategies and techniques to support creative processes
- character development
- dramatic forms and conventions
- skills specific to a dramatic genre and/or style
- roles of performer, audience, and venue
- movement, sound, image, and form
- influences of time and place on dramatic works
- contributions of innovative artists from a variety of genres, cultures, and periods
- a range of local, national, and intercultural performers and movements
- traditional and contemporary First Peoples worldviews, history, and stories communicated through dramatic works
- history and theory of a variety of dramatic genres, including their roles in historical and contemporary societies
- ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Media Arts 12 (Video)

- elements and principles of design
- image development strategies
- media technologies
- standards-compliant technology
- a variety of image sources and genres
- terminology used in media arts
- a range of materials, processes, and techniques
- media production skills to enhance, alter, or shape technical elements of a project:
- pre-production
- production
- post-production
- symbols and metaphors
- influences of visual culture in media arts
- local, national, global, and intercultural media artists and genres
- ethical, moral, and legal considerations associated with media arts technology
- moral rights, and the ethics of cultural appropriation and plagiarism
- health and safety protocols and procedures

Instrumental Music 12 (Band or Guitar or Keyboards)

- musical elements, principles, vocabulary, symbols, and theory
- techniques specific to individual or families of instruments, including:
- winds
- percussion
- keyboard
- orchestral strings
- guitar
- *Note: Students are only expected to know techniques related to their instrument(s) of choice.*
- technical skills, strategies, and technologies
- creative processes
- creative and digital copyright for composers, publishers, and producers of music
- movement, sound, image, and form
- influences of time and place on the emergence of musical forms
- roles of performer, audience, and venue
- traditional and contemporary First Peoples worldviews and cross-cultural perspectives, as communicated through music
- contributions of innovative artists from a variety of genres, contexts, periods, and cultures
- global and intercultural musicians, movements, and genres
- history of a variety of musical genres
- ethics of cultural appropriation and plagiarism
- health and safety issues and procedures

Photography 12

- elements of visual art
- principles of composition
- image development strategies in photography
- photographic materials, techniques, processes, and image-making technologies, used in one or more types of photography:
- digital photography
- darkroom photography
- alternative photographic processes
- photographic chemistry (for film) or alternative chemical processes
- creative processes
- behaviours of light
- principles of light
- ways of sensing light:
- optical instruments
- parts and functions of cameras and accessories
- roles of and relationships between photographer and viewer
- symbols and metaphors in photography
- influences of visual culture in social and other media
- innovative photographers from various historical, social, and cultural contexts
- history of photography
- traditional and contemporary First Peoples worldviews, stories, and history, as expressed through photography
- moral rights, and the ethics of cultural appropriation and plagiarism

Languages 12

Core French 12

- commonly used vocabulary and sentence structures for communication in past, present, and future time frames:
- questions
- sequences of events

- doubts, wishes, possibilities, and hypothetical situations
- explanations of needs, emotions, and opinions
- register and language etiquette
- idiomatic expressions from across *la francophonie*
- ethics of cultural appropriation and plagiarism

Punjabi 12

- increasingly complex vocabulary, sentence structures, and expressions, including:
- complex questions
- sequence of events in stories
- doubts, wishes, possibilities, and hypothetical situations
- emotions and opinions
- degrees of formality
- First Peoples perspectives connecting language and culture, including oral histories, identity, and place
- past, present, and future time frames
- language formality and etiquette
- Punjabi resources and services
- Punjabi works of art
- cultural impact on behaviour and attitudes
- contributions of Punjabi communities and Punjabi Canadians to Canada
- connections between language and culture
- ethics of cultural appropriation and plagiarism

Spanish 12

- increasingly complex vocabulary, sentence structures, and expressions, including**:**
  - complex questions and opinions
  - sequence of events in stories
  - needs and emotions
  - explanation and justification of opinions
- First Peoples perspectives connecting language and culture, including oral histories, identity, and place
- past, present, and future time frames
- language formality and etiquette
- distinguishing features of major Hispanic and Spanish regional dialects
- Hispanic resources and services
- Hispanic works of art
- ethics of cultural appropriation and plagiarism

Mathematics 12

Foundations of Mathematics 12

- geometric explorations:
- constructions
- conics
- fractals
- graphical representations of polynomial, logarithmic, exponential, and sinusoidal functions
- regression analysis
- combinatorics
- odds, probability, and expected value
- financial planning

Pre-calculus 12

- transformations of functions and relations
- exponential functions and equations
- geometric sequences and series
- logarithms: operations, functions, and equations
- polynomial functions and equations
- rational functions
- trigonometry: functions, equations, and identities

Calculus 12

functions and graphs

limits:

- left and right limits
- limits to infinity
- continuity

differentiation:

- rate of change
- differentiation rules
- higher order, implicit
- applications (differentiation) integration:
- approximations
- fundamental theorem of calculus
- methods of integration
- applications (integration)

Other Grade 12 Electives

Peer Tutoring 12

- The characteristics and recognizable traits of common learning obstacles
- A variety of learning theories/styles and their applications
- Scaffolding techniques
- Guidelines and importance of confidentiality
- How to use available assistive technologies and resources
- Problem-solving strategies and skills

Psychology 12 (BAA Course – DOES NOT MEET SOCIALS GRADUATION REQUIREMENT)

- Stress and its impact on health; management/coping strategies and therapies
- Dynamics of the group and its impact on human behavior; study of how the presence of others or membership to others affect attitudes, beliefs, and actions
- Theories of personality - introduction, theories and assessment
- Theories of love and attraction - an examination of the complex, wide-ranging behavior/emotions in the context of interpersonal relationships, including LGBTQIA; the neuroscience behind pair-bonding.
- Psychological disorders: understanding various mental disorders including causes, symptoms, predisposing factors, and treatment; learning to recognize the myths and stigmas of mental illness
- Criminal behavior versus altruistic behavior and understanding of role of psychological factors
- Media literacy - encouraging critical reflection on the social, political and cultural impact of North American mass media on its viewers/consumers

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Physical and Health Education

Active Living 12 (Co-Ed, Girls Only or Leadership)

- Health and well-being
- the role of nutrition and how it can affect health and performance
- potential short- and long-term consequences of health decisions
- benefits of physical activities for health and mental well-being
- Safety
- physical activity safety and etiquette
- injury prevention and management
- Participation
- proper physical movement patterns, including non-locomotor, locomotor, and manipulative skills
- ways to monitor and adjust physical exertion levels
- rules and guidelines for different types of sports and activities
- recreational resources available in the community

Fitness and Conditioning 12

- anatomical terminology
- skeletal system, including bones and joints
- ways to train the muscular and cardiovascular systems
- different types of muscle, including cardiac and skeletal muscle
- relationships between energy systems and muscle fibre types
- different types and functions of connective tissue
- components of an exercise session
- exercise safety and etiquette
- ways to monitor and adjust physical exertion levels, including heart-rate monitoring and percentage of one-repetition maximum
- principles of program design, including training principles to enhance personal fitness levels, such as the FITT principle, SAID principle, recovery, and specificity
- effects of different types of fitness activities on the body
- sources of health information
- influences of personal choices on physical performance
- performance-enhancing supplements and drugs

Leadership 12 (Intramurals – Application Course)

Communication

- How to communicate with respect and clarity through verbal, written and visual means to small groups amongst peers.
- How to actively listen and understand unique perspectives and be open to different ideas.
- Conflict resolution is a process that leads to the establishment of healthy teams. Different student ideas and opinions are valuable.

Creative and Critical Thinking

- How to undertake ethical decision making. Understand that actions have consequences and problems can be approached from different perspectives.
- How to recognize and understand leadership theory and how group dynamics are impacted.
- How to set SMART goals and introduce personal short-term goals.
- Importance of reflective practice and the effect on student learning. Students understand how personal actions and failures are assessed.

Personal and Social Connection

- How to differentiate personal leadership styles and be comfortable working within them.
- How to undertake student-centered events and activities; including how to plan, facilitate and implement small group activities with guidance.
- Develop a philosophy of service and recognize the benefits of giving back. Specifically, how individuals play an important role within healthy school communities.
- Identify and understand the cause of stressors and how the body responds. Develop strategies to minimize negative effects.

Cultural Identity

- Valuing diversity and different ways of knowing how individuals fit within their community.
- How to incorporate Indigenous ways of knowing and acknowledgments of territory. Students should understand oral traditions of sharing knowledge and recognize the value of mentorship.

Weight Training 12 (BAA Course)

- Exercise safety and etiquette – breathing techniques, proper use of equipment and facilities, spotting and working out with a partner
- Antagonistic muscle pairing
- Synergistic Muscles
- Skeletal system-actions of joints
- Types of muscle fibres – fast twitch, slow twitch, type A & type B
- Types of muscle contractions – isometric
- Principles of Training – Progression, Reversibility, Overload, Adaptation, Individuality, Specificity
- Progressions – negative sets, pyramids
- Periodization Programs (12's)
- Routines – Plyometrics, Cross-Fit, Cross training
- Goals of Weight Training – Power, Body Building
- Injuries – (muscles and tendon strains and tears, tendonitis, ligament and joint injuries, fractures)
- Body Types: Ectomorph, Endomorph, Mesomorph
- Nutrition: micro and macro calorie counting
- Current trends and innovation in weight training
  - TRX, Kettle Bell Training
- Profession in the industry Ways to monitor and adjust weight training program based on personal goals

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Sciences 12

Anatomy and Physiology 12

- biological molecules
- metabolism and enzymes
- feedback loops and regulation of the body's internal environment
- transport across a cell membrane
- DNA:
- the cell's genetic information
- replication
- gene expression
- proteins and their relationship to the structure and function of all cells
- genomics and biotechnology
- micro to macro organization
- organ systems:

- structure and function
- structural and functional interdependence
- maintenance of homeostasis

- lifestyle differences and their effects on human health
- holistic approach to health
- disease as an imbalance in homeostasis

Chemistry 12

- reaction rate
- collision theory
- energy change during a chemical reaction
- reaction mechanism
- catalysts
- dynamic nature of chemical equilibrium
- Le Châtelier's principle and equilibrium shift
- equilibrium constant (K_{eq})
- saturated solutions and solubility product (K_{sp})
- relative strength of acids and bases in solution
- water as an equilibrium system
- weak acids and weak bases
- titration
- hydrolysis of ions in salt solutions
- applications of acid-base reactions
- the oxidation-reduction process
- electrochemical cells
- electrolytic cells
- quantitative relationships

Physics 12

- frames of reference
- relative motion within a stationary reference frame
- postulates of special relativity
- relativistic effects within a moving reference frame
- static equilibrium
- uniform circular motion:
  - centripetal force and acceleration
  - changes to apparent weight
- First Peoples knowledge and applications of forces in traditional technologies
- gravitational field and Newton's law of universal gravitation
- gravitational potential energy
- gravitational dynamics and energy relationships
- electric field and Coulomb's law
- electric potential energy, electric potential, and electric potential difference
- electrostatic dynamics and energy relationships
- magnetic field and magnetic force
- electromagnetic induction
- applications of electromagnetic induction
- impulse and momentum
- conservation of momentum and energy in collisions
- graphical methods in physics

Social Studies 12

Asian Studies 12

- resource distribution and physiographic features
- demography, migration, urbanization, and environmental issues
- industrialization, globalization, economic systems, and distribution of wealth
- development, structure, and function of political and social institutions
- social and political movements, including human rights initiatives
- local, regional, and global conflict and co-operation
- local, regional, and national identities

History (20th Century World History)

- authoritarian regimes
- civil wars, independence movements, and revolutions
- human rights movements, including indigenous peoples movements
- religious, ethnic, and/or cultural conflicts, including genocide
- global conflicts, including World War I, World War II, and the Cold War
- migrations, movements, and territorial boundaries
- interdependence and international co-operation
- social and cultural developments
- communication and transportation technologies

Human Geography 12

- demographic patterns of growth, decline, and movement
- relationships between cultural traits, use of physical space, and impacts on the environment
- relationship between First Peoples and the environment
- global agricultural practices
- industrialization, trade, and natural resource demands
- factors behind increased urbanization and its influence on societies and environments
- relationships between natural resources and patterns of population settlement and economic development
- political organization of geographic regions

Law Studies 12

- the Constitution of Canada and the Canadian Charter of Rights and Freedoms
- structures and powers of the federal and provincial courts and administrative tribunals
- key areas of law such as criminal law, civil law, and family, children's, and youth law
- Canadian legislation concerning First Peoples
- indigenous legal orders and traditional laws in Canada and other global jurisdictions
- Canada's correctional system and principles of rehabilitation, punishment, and restoration
- structures and roles of global dispute resolution agencies and courts

Social Justice 12

- definitions, frameworks, and interpretations of social justice
- self-identity and an individual's relationship to others
- social justice issues
- social injustices in Canada and the world affecting individuals, groups, and society
- governmental and non-governmental organizations in issues of social justice and injustice
- processes, methods, and approaches individuals, groups, and institutions use to promote social justice