



# **Georges P. Vanier**

Secondary School

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## **Course Selection Guide 2026-2027**



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# PROGRAM PLANNING INFORMATION

**GP Vanier Counselling Department** – Counsellors are an integral part of the academic advising process. Students should meet with their assigned counsellor to plan their programs and review graduation requirements.

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**Course Selection** – Students in Grade 10 and 11 **MUST** carry full timetables and are **NOT** permitted to have unassigned blocks in their timetables, except for very exceptional circumstances approved by the Principal. Each Grade 10 and 11 student will enroll in a minimum of eight courses. **Grade 12 students will enroll in 8 courses and undertake a full course load, unless a study block is requested and approved by an administrator.**

**Course Changes** – Students will have an opportunity to meet with their counsellors during the first week of classes to finalize their course selection. Not all course requests can be accommodated.

**Dropped Courses** – Courses are not dropped after the 1<sup>st</sup>/3<sup>rd</sup> term reports have been issued.

**Repeating Courses** – students who have failed required courses will be re-scheduled into those courses to meet graduation requirements. Students who have completed an online course over the summer should inform their counsellor to ensure that marks have been recorded and credits have been assigned.

**Post-Secondary Admissions** - When selecting courses, students should research post-secondary requirements to ensure they are making suitable course selections. Current post-secondary calendars are available online. It is the student's responsibility to be aware of any post-secondary requirements and plan accordingly

**Class Size Limitations** – When space in classes is limited, priority will be given to students needing the course to meet graduation requirements. Students wishing to upgrade previously attempted courses may be admitted depending on availability of space.

**It is very important that students and parents understand that Vanier's course offerings are determined by the selections made in this programming process. Changes to your choices may not be possible once online course selection is completed. Some courses may not run due to low enrollment. Please be very careful to make choices that fit with your future educational and/or vocational plans. Our counsellors are available to answer your questions or to direct you to resources.**

# GRADUATION REQUIREMENTS

In British Columbia, prescribed Provincial Graduation Requirements provide for mastery of a common core of learning as well as the opportunity for significant student choice. To graduate, students must earn a minimum of **80 credits** in courses numbered 10, 11 and 12.

<b>REQUIRED COURSES</b> <i>(52 credits)</i>	<ul style="list-style-type: none"><li>• A <b>Language Arts 10</b> (4 credits) Literary Studies/Composition, New Media/Spoken Language or English 10 First Peoples</li><li>• A <b>Language Arts 11</b> (4 credits) Literary Studies/Composition, New Media/Spoken Language or English 11 First Peoples</li><li>• A <b>Language Arts 12</b> (4 credits) English Studies 12 or English 12 First Peoples</li><li>• <b>Social Studies 10</b> (4 credits)</li><li>• A <b>Social Studies 11 or 12</b> (4 credits)</li><li>• A <b>grade 10 Mathematics</b> (4 credits)</li><li>• A <b>grade 11 or 12 Mathematics</b> course (4 credits)</li><li>• <b>Science 10</b> (4 credits)</li><li>• A <b>grade 11 or 12 Science</b> course (4 credits)</li><li>• <b>Physical and Health Education 10</b> (4 credits)</li><li>• <b>Career Life Education</b> (4 credits)</li><li>• <b>Career Life Connections and Capstone</b> (4 credits)</li><li>• <b>Fine Arts</b> and/or <b>Applied Skills</b> 10, 11 or 12 course (4 credits)</li><li>• <b>Indigenous Studies</b> (4 credits)</li></ul>
<b>ELECTIVE COURSES</b> <i>(28 credits minimum)</i>	See an extensive list of the Elective Courses throughout the Course Selection Guide
<b>Notes:</b>	<ul style="list-style-type: none"><li>• An unlimited number of credits from Board Authority Authorized (BAA) or post-secondary courses may count towards graduation</li><li>• A minimum of 16 credits from either Ministry or BAA or post-secondary courses are required at the grade 12 level</li><li>• Three graduation exams are required for graduation – two in literacy and one in numeracy (gr 10 &amp; gr 12)</li></ul>
For more information on graduation: <a href="#">BC Provincial Graduation Requirements</a>	

## Assessments- Grades 10-12

Students will complete three Graduation exams focused on literacy and numeracy: Numeracy 10, Literacy 10 and Literacy 12.

The emphasis in these exams will be on demonstration and application of learning through different means. There will be a greater focus on classroom assessment that is flexible and personalized and give educators greater flexibility to decide how and when students are assessed.

Much has been learnt about assessment in recent years, through research and consultation. B.C.'s education system will reflect this greater understanding of the potential of assessment, and fundamentally rethink the relationships between curriculum, assessment practices and learning.

Final assessments for all courses will be determined by the classroom teacher.

**Students need to be aware of post-secondary admission requirements. They may want to meet with their counsellor to ensure they are able to qualify for a Provincial Ministry scholarship.**

Senior students are expected to formulate general educational goals based upon their interests, needs, and abilities as experienced in Grades 8, 9 and 10.



# VanierFLOW

Personalized, Teacher-Supported Flexible Learning Option (Grades 10-12) - starting September 2026!

VanierFLOW is a teacher-supported blended learning option for students in Grades 10-12 who want more flexibility in how they learn.

Students can take one or more courses through FLOW and work in a supportive learning hub with in-person teacher coaching, check-ins, and assessment.

FLOW is designed to help students build momentum, ownership, and skills for life beyond high school—while staying connected to Vanier.

## What VanierFLOW Offers Students

### PERSONALIZATION

Your learning path doesn't have to look like everyone else's. In FLOW, teachers help you plan goals, choose learning resources, and show what you know in a way that fits your strengths, while meeting course outcomes.

### FLEXIBILITY

FLOW offers flexibility in pace, learning environment, and approach. You can work independently, join a small-group workshop, collaborate at tables, or use quiet spaces, depending on what you need to learn well that day.

### SUPPORT + ACCOUNTABILITY

Flexible doesn't mean "on your own." FLOW includes teacher mentorship, regular check-ins, progress tracking, and timely feedback so students stay supported and on track for credit and graduation.

## Is VanierFLOW right for me?

### VanierFlow can be a good fit for students who:

- want more flexibility in how they learn (pace, place, approach)
- do well with independence and owning their learning, and want teacher support
- are balancing athletics, work, family responsibilities, wellness, or other
- want to catch up, stay on track, or move ahead in a course.
- want access to a course that may not run in the timetable or is custom built for them
- are ready to build skills like self-management, self-advocacy, and goal setting
- want a calmer, focused workspace with coaching available when needed





# How it works



In Year 1, VanierFLOW is designed to be accessible and flexible:

- Students enroll in 1–8 FLOW blocks (depending on their needs and timetable).
- Students may combine FLOW with regular timetabled classes and programs (Athletics, Shop classes, Band, Cafeteria, Theatre, Trades/Programs, Dual-credit, etc.).
- Most learning uses a blended approach: digital course resources + in-person teacher support, conferencing, and assessment.
- Students receive and develop a clear plan, expectations, and regular check-ins to support progress and success.
- Students earn BC course credits and are assessed by Vanier teachers.

## Three ways to take courses through FLOW

### 1. Vanier-hosted blended (online) courses:

Take a course in an online-style format with Vanier teachers supporting, coaching, and assessing your learning in person

### 2. Courses that don't run in the timetable:

Flow can help students access low-enrolment or specialty courses that may not run as a full class section every year (based on interest and prerequisites).

### 3. Co-designed learning pathways:

Want a more personalized route? With teacher guidance, students can co-create a plan, clarify success criteria, and use approved learning resources (projects, curated units, online platforms, community learning, etc.) to meet course outcomes.

**Your pace.  
Your plan.  
Your VanierFLOW.**

FLOW is:	FLOW isn't:
teacher-supported, credit-earning blended learning with check-ins and assessment.	a drop-in spare block, or "just online school."

Check out the link below for a complete list of possible courses available through VanierFLOW



[bit.ly/VanierFLOW-Courses](http://bit.ly/VanierFLOW-Courses)

Interested in learning more?

Choose VanierFLOW in course selection and indicate how many blocks you are interested in. Questions? Speak with your counsellor or scan the QR code for details, course examples, and FAQs.



# CAREER EXPLORATIONS

## Career Planning

Visit the Comox Valley Careers website <https://www.comoxvalleyschools.ca/career-programs/>

A very important component of any Career Planning is connecting students to the 'world of work' through **work experience**. Work experience validates whether a student's interests and predicted career pathway is realistic or needs adjusting. G.P. Vanier offers the following programs to link students with the workforce.

## Career Life Education 10

The Career Life Education program in School District 71 addresses the connection and overlap between areas of intellectual development, human and social development and career development by creating healthy, active and educated citizens. Career Life Education 10 is a 2-credit course designed to enable students to develop the skills they need to become self-directed individuals who make thoughtful decisions, set goals and take responsibility for pursuing their goals throughout life. Students will explore a wide range of career and post-secondary options, think critically about health issues and decision making, develop financial literacy skills and plan the actions required to pursue future goals. In addition, students will lay the foundation for their Grade 11/12 Career Life Connections and Capstone Project standards.

In summary, what will students learn in Career Life Education?

- components and requirements of the Graduation Program
- education planning and career transitions
- financial planning (as it relates to student transitions from high school)
- informed decision-making related to health issues

## Career Life Connections 11/12

The Career Life Connections program in SD71 is designed to assist students with career guidance at appropriate timing. Students will be expected to complete a Capstone Project and cover the following topics:

- Create a personal integrated plan for post-graduation that articulates choices related to:
  - career
  - education
  - finances
  - health and well being
- Engage in, evaluate, and reflect on employment, career exploration and/or volunteer opportunities (30 hours or more) and their role in career, education and life planning.
- Design, assemble and present a Capstone Project to an audience that demonstrates personal learning and achievement (in and out of school), growth in the core competencies and reflection on their post-graduation plan.

## Career Experience – 30 Hour Career Life Connections Requirement

Students are required to complete a minimum of 30 hours of volunteer and/or career experience between Grades 10 and 12.

To complete a minimum of 30 hours of career experience, a student may participate in one or more of the following activities:

- school-arranged career experience
- day shadowing (one or more short-term industry visit)
- volunteer work/community service

The goal of career experience is two-fold. Firstly, it's an opportunity for youth to experience, and communicate, with an adult in their chosen career path and secondly, for youth to become aware of, and practice, employability skills such as punctuality, communication, teamwork, positive work ethic and attitudes. Students may choose career experience to train for entry-level employment or a placement related to future career goals.

For school-arranged career experience, Work Experience Teachers and Coordinators connect students with career experience opportunities within the community. Students access the worksite under regulated hours and conditions and are closely supervised. While in high school, students are covered under a provincial WorkSafeBC agreement in case they get injured while on the job. This type of coverage only occurs for high school students, so it is a good way for students to be able to be on a job site, without the employer having to hire them.

## Work Experience 12A & 12B

(Open to Grades 10, 11 and 12) **Must be 16 years of age**

Long-term work experience is open to Grade 10, 11 and 12 students who have an interest in pursuing almost any career area. In Work Experience 12A & 12B, a student spends 100 hours training at one or more worksite. By doing this, skills are learned and questions are answered before career decisions are made; students may realize they love the field they are exploring, or that they would like to pursue a different career path. Students choose placements according to their current interests. Students typically work after school, on weekends, or during the school day (this course can be extra-sessional, which means that a student could have 9 or 10 courses listed on their timetable). Students can sign up for a Work Experience course before summer vacation begins and complete their 100 hours over the break.

Benefits of work experience are:

- earn 4-8 credits toward graduation
- receive pre-employment job training and potentially secure paid employment
- help make decisions about potential career paths

**Contact the Work Experience Coordinator or Career Center Teacher for information.**

## Metal Mechanical Trade Sampler (Isfeld)

This program is intended to prepare students to go into any of the welding, pipefitting, machining and fabricating trades. It is a full-time program, 4 days per week, and combines applied math and communication skills with hands-on project work. There will be field trips to industry and training institutions to better assist students in choosing a career path.

If interested, please go to the Work Experience Office and pick up a district Trade Sampler application to be completed and handed back in. It is open to students entering Grade 11 and 12 and is offered in Semester 2.

**SKILLED TRADES BC**

Youth Explore Trades Sampler

<b>What You Need...</b>	<b>What You Will Get...</b>
<ul style="list-style-type: none"> <li>➤ Mechanical interest</li> <li>➤ Desire to work in a trade involving mechanics or metal</li> <li>➤ Good attendance and a strong work ethic</li> </ul>	<ul style="list-style-type: none"> <li>➤ Math 11 credit (Apprenticeship &amp; Workplace Math 11)</li> <li>➤ 16 credits towards Grade 12 (Will receive 20 Credits with WEX)</li> <li>➤ Practical “hands-on” training experience</li> <li>➤ Valuable industry experience</li> <li>➤ Workforce training certificates (First Aid, WHMIS, Fork Lift, etc.)</li> </ul>
<b>What You Will Do...</b>	
<ul style="list-style-type: none"> <li>➤ Spend a semester fully immersed in metal work/machining/fabricating</li> <li>➤ Monthly tours to industry shops to learn about different careers</li> <li>➤ 4 days in shop and 1 day per week on work experience or working on workforce training certificates</li> </ul>	

### Construction Trade Sampler (Vanier)

The goal of the Construction Trade Sampler is to prepare students to explore a career in the construction industry by developing practical skills in carpentry, plumbing, electrical, roofing, drywall and concrete. Some students may decide on a college trade foundation program upon completion.

**SKILLED TRADES<sup>BC</sup>**

Youth Explore Trades Sampler

If interested, please go to the Work Experience Office and pick up a district Trade Sampler application to be completed and handed back in. It is open to students entering Grade 11 and 12 and is offered in Semester 2.

<b>What you Need...</b>	<b>What You Will Get ...</b>
<ul style="list-style-type: none"> <li>➤ Enjoy working outside</li> <li>➤ Desire to work in a construction trade</li> <li>➤ Good attendance and a strong work ethic</li> <li>➤ Like to build structures</li> </ul>	<ul style="list-style-type: none"> <li>➤ Math 11 credit (Apprenticeship &amp; Workplace Math 11)</li> <li>➤ 16 credits towards Grade 12 (Will receive 20 Credits with WEX)</li> <li>➤ Practical “hands-on” training experience</li> <li>➤ Valuable industry experience</li> <li>➤ Workforce training certificates (First Aid, WHMIS, Fork Lift, Fall protection, etc.)</li> </ul>
<b>What You Will Do...</b>	
<ul style="list-style-type: none"> <li>➤ Spend a semester fully immersed in the construction trades such as carpentry, electrical, plumbing, drywall, etc.</li> <li>➤ 4 days in shop and 1 day per week on work experience or working on workforce training certificates</li> </ul>	

## Transportation Trade Sampler (Vanier)

The goal of the Transportation Trade Sampler is to prepare students to explore a career in auto, heavy duty, aircraft and marine mechanics by developing practical skills. Some students may decide on a college trade foundation program upon completion.

If interested, please go to the Work Experience Office and pick up a district Trade Sampler application to be completed and handed back in. It is open to students entering Grade 11 and 12 and is offered in Semester 2.

**SKILLED TRADES<sup>BC</sup>**

Youth Explore Trades Sampler

<b>What you Need...</b> <ul style="list-style-type: none"><li>➢ Enjoy working outside</li><li>➢ Desire to work in a transportation mechanics trade</li><li>➢ Good attendance and a strong work ethic</li><li>➢ Like to work with engines of all types</li></ul>	<b>What You Will Get ...</b> <ul style="list-style-type: none"><li>➢ Math 11 credit (Apprenticeship &amp; Workplace Math 11)</li><li>➢ 16 credits towards Grade 12 (Will receive 20 Credits with WEX)</li><li>➢ Practical “hands-on” training experience</li><li>➢ Valuable industry experience</li><li>➢ Workforce training certificates (Fork Lift, First Aid, WHMIS, etc.)</li></ul>
<b>What You Will Do...</b> <ul style="list-style-type: none"><li>➢ Spend a semester fully immersed in the transportation trades such as auto, heavy duty aircraft and marine mechanics etc.</li><li>➢ 4 days in shop and 1 day per week on work experience or working on workforce training certificates</li></ul>	

## Youth Train In Trades

- Youth Train In Trades programs allow students to earn credit towards both high school graduation and trades qualifications.
- Students in Train programs will complete Level 1 Apprenticeship Technical Training in their chosen trade and gain valuable practical experience.
- Work in Trades students also qualify for the Train program.
- Train programs involve course work at high school and/or college.
- Train programs cover tuition costs.
- Students should start planning Train courses by Grade 11.

**TRAIN**

**SKILLED TRADES<sup>BC</sup>**

### Train in Trades programs offered

NIC Programs	NIC Programs
Plumbing	Carpentry
Metal Fabrication	Welding
Professional Cook	Electrical
Heavy Duty Mechanics	Electronics Core/Electrical
Auto Service Technician	**Other opportunities exist - see work experience office

See the school district careers web page [careerprograms.comoxvalleyschools.ca](http://careerprograms.comoxvalleyschools.ca) to learn more.



# DISTRICT APPRENTICESHIP PROGRAMS

## Robotics 71

The Robotics71 STEM program is geared towards students interested in robotics and the Engineering field. The program/course is open to all Comox Valley Schools students in Grade 8 through Grade 12 and will be offered in the “Botshop” at Highland Secondary School Tuesday and Thursday after school from 4:00pm – 6:00pm beginning in mid September and running until June.

- The program builds skills in; coding, communication and collaboration, electronic wiring, mechanical design and assembly, machining & fabrication, 3D printing & laser cutting.
- Students have the opportunity to compete in Vex and Skills Canada tournaments (locally, provincially, nationally, internationally)
- Public transit can get students from G.P. Vanier to Highland by 4:00pm.



## Professional Cook 1

Do you enjoy working in a kitchen environment and creating tasteful food? Maybe you can see yourself in the fast-paced tourism industry working wherever you want, while mixing in some travel? Possibly you like to express your creative self through food preparation. This program can lead to a Red Seal Certification. This program is offered through a partnership with Camosun College and combines online learning, hands-on training with a chef in a restaurant, along with one day a week classroom training. It is open to students in Grade 12 and is offered in Semester 2.

<b>What You Need...</b> ➤ Have a passion for the culinary field ➤ Desire to work in the hospitality and food industry	<b>What You Will Get...</b> ➤ Professional Cook 1 Certification of Qualification ➤ Practical “hands-on” training experience ➤ 20 Credits towards grade 12
<b>What You Will Do...</b> ➤ Spend roughly 2 hours per day online learning ➤ 15-20 hours a week at a local restaurant ➤ 1 full day at Mark Isfeld Secondary working on labs with a Home Economics Teacher	

## Youth Work In Trades

What is Youth Work In Trades?

Youth Work In Trades is open to Grade 10-12 students, 16 years of age or older, who are motivated to gain hands-on training in a designated trade.

**Hidden Apprentice:** If you are presently working in a trade related job, contact your Work Experience Coordinator to see if you qualify as a Work Student. It can mean receiving graduation credits for learning outside of school, and you can qualify for a \$1,000 scholarship.



### Need more information?

Visit the Comox Valley Careers web site: <https://www.comoxvalleyschools.ca/career-programs/>

## Dual Credit Opportunities with North Island College, Camosun or Vancouver Island University

Are you interested in taking college/university courses while in grade 12? The Careers Department can sponsor you to take courses or a Certificate program if you have completed the pre-requisites and are still a student in your high school.



**Courses:** Students may take any NIC, Camosun or VIU course.  
Popular career path courses are:

<ul style="list-style-type: none"><li>➤ Computer Programming Systems 102</li><li>➤ Fine Arts 110, 140</li><li>➤ Medical Terminology</li><li>➤ Criminal Justice 131</li><li>➤ Sociology 110</li></ul>	<ul style="list-style-type: none"><li>➤ Psychology 130 &amp; 131</li><li>➤ Business 162 &amp; 150</li><li>➤ Criminology 101</li><li>➤ Math 151</li><li>➤ Digital Design 105</li><li>➤ Biology 160 + Lab</li><li>➤ Social Work 122</li></ul>
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### **Certificate Programs:**

- Health Care Assistant
- Early Childhood Care & Education
- Human Services
- Business & Office Administration
- Web Design
- Digital Marketing
- And more...



**Key points...** Spend your last semester making the transition to Post Secondary, courses run at NIC, Camosun or VIU. Be sponsored to take a course(s) or a certificate program. Please visit your school Careers office for more information.

## Computer Programming Systems 102 (Required for Engineering)

3 Credit(s)

This course is an introduction to computer programming using C++. Topics include problem analysis and program development, data types, selection and iteration, functions, recursion, arrays, lists, and an introduction to object-oriented programming.

### **Prerequisite(s):**

- C in one of Pre-calculus Math 11
- C in English 12

## **Emergency Medical Responder (EMR)**

Columbia Learning Emergency Medical Responder Course is an entry-level medical course that trains candidates to respond to life-threatening medical conditions and traumatic emergencies. The EMR course is systematically designed to progress learners through all aspects of pre-hospital care including various treatment guidelines and medical protocols.

This district program is second semester and based at two schools, Mark R Isfeld and Highland Secondary. There is a program fee, but the dual credit tuition is sponsored. EMR supports students as they head towards paramedicine, firefighting, nursing...

## **Principles of Marketing BUS 162 (Required for Business Programs, Certificates and Degrees)**

3 Credit(s)

This course introduces students to the basic concepts and principles of marketing as it relates to the public, private, and not-for-profit sectors. Particular emphasis will be given to the topics of assessing dynamic marketing environments and developing a marketing strategy and marketing mix.

**Prerequisite(s):**

- C in English 12

## **Graphic Design Foundations DGL 102 (Required for most Digital and Web Certificates and Diplomas)**

3 Credit(s)

4 hours

This course provides a general overview of contemporary practices in Graphic Design. The creation of vector graphics and the application of design principles are integrated into projects that cover identity design, poster design and the design process. Students will discuss historical and contemporary concepts and learn to think critically.

**Prerequisite(s):**

- C in English 12

## **Drawing & 2-Dimentional Language I FIN-110 (Required for most Fine Art Certificates and Diplomas)**

3 Credit(s)

This course is an exploration of drawing and mark-making, it introduces methods, material and concepts particular to the medium of drawing and visual language. The intention of this course is to provide students with foundational skills and artistic vocabulary that will enable them to express themselves in the medium of drawing. An emphasis will be put on comprehension, analysis, and ability to make artistic decisions.

**Prerequisite(s):**

- C in English 12

# **ART**

## **Art 10**

**1 Term**

**2 Graduation Credits at the Grade 10 Level**

Every student has artistic potential and the objective of this course is to develop basic skills and understanding of art processes. This is an introductory course that will deal with art created in two dimensions through various techniques such as drawing, painting and printmaking. Students will use the principles and elements of art and design to create great art and communicate ideas.

## Art Studio 10

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

The objective of the course is to develop basic skills and understanding of art processes using the principles and elements of art and design. This is an introductory course that will deal with art created in two dimensions through various techniques such as drawing, painting and printmaking. Students will create art and use it to communicate personal, social, and cultural ideas.

## Graphic Novel and Comic Illustration 11

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

This course is for students interested in exploring art making through the lens of comics. Students will engage in the creation of print-ready comics, cartoons and graphic novels. Areas of study will include anatomy, layout, character and environmental design and narrative illustration. Students will employ a variety of two-dimensional media to explore the production pipeline from penciling through inking and color and on to final production. This rigorous course is intended for students with a background in art and illustration who are self-motivated and able to work independently toward hard deadlines.

## Art Printmaking 11

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

This course is designed to provide students with a basic set of skills in a variety of drawn and painted media. Students will continue to develop their understanding of art theory and practice as learned in Art 10. Media explored in this course will include ink, charcoal, soft pastel, oil pastel, acrylic and aquarelle. It is highly recommended that students have taken art 10 prior to taking this course. This course is recommended for students wishing to pursue graphic design, animation, fashion and interior design as well as studio arts.

## Art Studio 11

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

This course is designed to provide students with a set of tools to expand their art making practice beyond drawing and painting. Students will engage in digital media, graphic design, illustration, digital image manipulation and print making. In this course student will be encouraged to adapt the various media they learn to suit their personal art objectives. It is highly recommended that students have taken Art 10 prior to taking this course. This course is recommended for students who wish to pursue graphic design, fashion design, architecture, digital arts and game design as well as studio arts.

## Art Studio 12

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

Students who take this semester long course will continue to use individual style, the creative process and exploration to create in two and three dimensions through the use of specific strategies: live observation, simplification, distortion, viewpoint, and self-expression. A range of media such as acrylic, watercolour, ink, clay, found objects and print making will be used. The objective is to give students the creative potential to solve art and design problems while producing successful, independent, self-directed visual art pieces. Students will continue to use critical analysis of works of art and some time will be devoted to art history. Students will create and use art to develop a professional quality portfolio for admission to post-secondary schools.

## Senior Open Studio & Portfolio Development 11/12

**1 Semester**

**4 Graduation Credits**

**Applied Skill: Yes**

This visual art studio elective offers senior students a guided, self-directed studio experience designed to support **post-secondary portfolio preparation** or focused advancement in a specific area of studio art. Students work closely with an instructor to develop a personalized studio plan, outlining their goals, media, and areas of exploration before moving into independent production. Emphasis is placed on sustained inquiry, technical refinement, and the creation of a cohesive, high-quality body of work. Due to the independent and advanced nature of the course, **prior instructor approval is required**.

## Analog Game Design: Board & Card Games 11/12

**1 Semester**

**4 Graduation Credits**

**Applied Skill: Yes**

This visual art studio elective invites students to design, prototype, and refine original analog games, including board games, card games, and hybrid tabletop experiences. Students will engage deeply with the **design process**, learning core principles of **game theory, mechanics, balance, and player experience**, while developing strong written rulesets and thematic coherence. The course emphasizes creativity, iteration, and playtesting, alongside digital skills such as **image creation, layout, and component design**. Ideal for students who are imaginative, articulate, visually minded, and willing to think critically about how systems shape player behavior.

## Cosplay Props, Armor & Jewelry 11/12

**1 Semester**

**4 Graduation Credits**

**Applied Skill: Yes**

This hands-on visual art studio elective introduces students to the art and craft of **cosplay construction**, with a focus on props, armor, and wearable costume elements. Students will explore a range of materials and techniques, including **EVA foam, extruded polystyrene, foam clay, and finishing methods**, to bring original designs to life. Emphasis is placed on problem-solving, fabrication skills, and translating concept designs into durable, wearable forms. This course is ideal for students interested in costume design, fabrication, and creative craftsmanship, whether for cosplay, performance, or character-based art.

## Tabletop Game Terrain & Model Building 11/12

**1 Semester**

**4 Graduation Credits**

**Applied Skill: Yes**

This visual art studio elective functions as a sculpture-focused course centered on **model making, diorama construction, and tabletop terrain design**. Through a series of guided and self-directed projects, students will learn construction techniques, structural planning, surface treatment, and advanced **finishing and detailing** methods. The course emphasizes craftsmanship, scale, texture, and visual storytelling, allowing students to create immersive environments for games or display. It is well suited for students interested in miniature work, world-building, and hands-on creative production.

# AUTOMOTIVE SERVICE TECHNOLOGIES (AST)

## Automotive 11

**1 Semester**

**4 Graduation Credits**

**Applied Skill: Yes**

Are you interested in cars, trucks and motorcycles? Do you own one or plan to buy one in the future? Automotive 11 explores how vehicle systems work and how to fix and maintain your own vehicle. Students will fix real problems and perform maintenance on our selection of shop vehicles and customer vehicles. You do not have to own your own vehicle, but if you do you could have the opportunity to work on it! Automotive topics include: wheels & tires, brakes, engine performance, batteries, fuel systems, ignition systems, Cooling systems, drivetrain, steering, suspension, electrical systems, diagnostics - and even what to look for when buying a car! All students are welcome, and no previous experience is required.

## Power Mechanics 10

**1 Term**

**2 Graduation Credits at the Grade 10 Level**

**Applied Skill: Yes**

Have you ever wondered how an engine works? Do you want to learn more about tools and engines in order to fix a dirt bike or ATV? Power mechanics 10 students will learn about the basic operation of 2 and 4 stroke motors and have the opportunity to work in groups to disassemble, rebuild, and start/run small motors. Topics covered will include: hand tools, measurement tools, 2 & 4 stroke engine operation, fuel, ignition, and lubrication. All students are welcome, and no previous experience is required.

# BUSINESS

## All About Money 12

**1 Semester**

**4 Graduation Credits**

**Applied Skills: No**

Money plays a role in almost every part of our lives—you earn it, save it, spend it, and plan your future around it. But do you truly understand how to manage it wisely? *All About Money* is a practical, real-world course designed to help you build financial confidence and set yourself up for long-term success.

In this course, you'll learn how to create and maintain a budget, understand how taxes work, and navigate borrowing through loans and mortgages. You'll explore how saving and investing can help you build wealth over time, including how tools like TFSAs, GICs, RRSPs, and RESPs work and how the stock market fits into a long-term financial plan. You'll also gain an understanding of insurance, financial decision making, and strategies for achieving personal and academic financial stability.

Whether you're curious about passive income, planning for the future, or simply want to make smarter money choices, this course will give you a fresh perspective on how to save, spend, and use your money effectively.

## Entrepreneurship, Marketing and Management 12

**1 Semester**

**4 Graduation Credits**

**Applied Skills: Yes**

Have you ever wondered what it would be like to run your own business? Do you dream of becoming an entrepreneur? If so, this is the course for you.

Entrepreneurship, Marketing and Management 12 is a hands-on, action-oriented course designed to introduce you to the world of business ownership. You will learn the fundamentals of entrepreneurship, marketing strategies, business management skills, and how to develop a complete business plan of your own.

One of the highlights of this course is the unique opportunity to operate the school store. Not only will you learn how a business works—you'll actually get to run one. From managing inventory to serving customers to making financial decisions, you'll gain real world experience you can't find in a textbook.

This yearlong course blends theory with practical application, giving you the skills, confidence, and insight needed to pursue your entrepreneurial ambitions.

## Business 12

### 1 Semester

### 4 Graduation Credits

### Applied Skills: Yes

Business 12 is a dynamic, comprehensive course designed for students with a strong interest in the world of business. Throughout the course, students will explore key business concepts and essential management strategies, gaining a solid foundation in how organizations operate, lead, and grow.

Students will build their understanding of business by examining a wide range of topics, including:

- Business Basics and Foundations
- Economics and Market Principles
- Ethics and Social Responsibility
- Management and Leadership Skills
- Human Resources and Workplace Relationships
- Marketing Concepts and Strategies
- Business Finance and Financial Decision Making

Business 12 is an excellent starting point for students planning to pursue post-secondary studies in business. Many of the ideas introduced in this course align with—and prepare students for—the concepts taught in business diploma and degree programs at colleges and universities.

## Tourism 12

### 1 Semester

### 4 Graduation Credits

### Applied Skills 11: Yes

Are you passionate about travel, culture, and adventure? In Tourism 12, you will dive into the exciting world of tourism by exploring the industry's role in shaping destinations, economies, and cultures—right here on Vancouver Island and beyond! From designing unforgettable trips to learning the ins and outs of sustainable travel, this course will prepare you to think like a true travel expert. Whether you are dreaming of becoming a tour guide, travel writer, or hospitality manager, this course will give you hands on experience and the knowledge to craft amazing journeys. Field trips, industry certifications, and guest speakers provide direct connections to the tourism industry. Get ready to plan trips, research dream destinations, and discover what makes the tourism industry one of the fastest growing sectors in the world.

## University Prep / Scholarship / SAT 12

### 1 Semester

### 4 Graduation Credits

### Applied Skills 11: No

Are you an academic student hoping to attend University or College? This course is designed to help students pursue their post-secondary education dream. University Prep focuses on developing the skills to become a better student, specifically in English (grammar), critical thinking skills/activities, note-taking strategies and typing skills. Additionally, you will explore post-secondary options that fit for you. You will research schools, requirements, programs, course loads, costs, financial aid (bursaries and scholarships), and housing. This course includes the option of university and college tours. This course uses the SAT test as a framework for improving your ability to perform well in school – at Vanier and at post-secondary. Attendance, participation and a desire to attend post-secondary are a requirement for success in this course.

# CARPENTRY AND WOODWORK

## Woodwork 9

### 1 Term

### No Graduation Credits

Do you want to work with your hands? Are you interested in making projects that you can keep with you forever! This might be the course for you. This course will introduce students to working safely in a woodshop. Topics will include safety, power tools, preparing stock by machine, basic joinery, the wood lathe, basic drafting, and applying a finish. Students will work on at least three small projects that include one toy, one wall hanging, and one artistic project. You will also have the opportunity to utilize the laser engraver or CNC machine to put an image onto your wall hanging. This is a hands-on course and students will be expected to demonstrate safe work habits while working in the wood shop.

## Woodwork 10

### 1 Term

### 2 Graduation Credits

### Applied Skills: Yes

Do you want to work with your hands? Are you interested learning new skills, or in further developing your skills in the wood shop? If you have not taken a woodshop course before this course will follow the same format as the Woodwork 9 course. If you are a returning veteran in the woodshop, you will have the opportunity to complete more complex projects. Topics will include safety, power tools, preparing stock by machine, basic joinery, the wood lathe, basic drafting, and applying a finish. This is a hands-on course and students will be expected to demonstrate safe work habits while working in the wood shop.

## Woodwork 11

### 1 Semester

### 4 Graduation Credits

### Applied Skills: Yes

Are you interested in learning about advanced wood working, joinery, or even furniture making? Do you want to take old, worn-out objects and make them useful again? This could be the course for you. This course is primarily a hands-on course in which you will be making various wooden projects. These projects evolve yearly depending on what is needed or wanted by the students. In the past students have built nightstands, created toys out of 2x4s, created complex laminated projects, built stages for community theatre groups as well as the Vanier Theatre, built sheds and dog houses. There will also be an “upcycling” project in this year’s class where students will re-imagine a new use for an old item. The topics that will be covered are safe work practices, power tools, preparing stock by machine, basic joinery, the wood lathe, basic drafting, reading plans, proper measuring techniques, and applying a finish. Students have more opportunity to develop projects that they are interested in building in this course which continues to build on the foundations learned in Woodwork 9 or 10. More onus is placed on the individual student to choose, plan, and develop projects that interest them. Students are expected to draw and plan their projects and to demonstrate safe work practices.

## Woodwork 12

### 1 Semester

### 4 Graduation Credits

### Applied Skills: Yes

Are you interested in learning about fine woodworking or furniture making? Have you already completed a SR wood course? Do you want to take old, worn-out objects and make them useful again? This could be the course for you. This course is primarily a hands-on course in which you will be making various wooden projects. These projects evolve yearly depending on what is needed or wanted by the students and require advanced drafting including plans and cut lists. In the past students have built nightstands, created complex laminated projects, and coffee tables. There will also be an “upcycling” project in this year’s class where students will re-imagine a new use for an old item. The topics that will be covered are safe work practices, power tools, preparing stock by machine, basic joinery, the wood lathe, basic drafting, reading plans, proper measuring techniques, and applying a finish. More onus is placed on the individual student to choose, plan, and develop projects that interest them. Students are expected to draw and plan their projects and to demonstrate safe work practices.

## **Skills Exploratory 10 (Carpentry/Electrical/Plumbing)**

**1 Term**

**2 Graduation Credits at the Grade 10 Level**

**Applied Skill: Yes**

This construction trades exploratory course introduces students to the world of construction. Students do not need any previous experience with trades or shop courses to take this course. The skills explore 10 course teaches students the basic techniques used in the carpentry, electrical and plumbing trades. Throughout this course students will learn how to safely operate tools and build a number of hands-on projects relating to the trades. This course is open to all grade 10 students, those who are interested in pursuing the trades, and also to those who are interested in a safe place to get some hands-on experience.

## **Skills Exploratory 11/12 (Carpentry/Electrical/Plumbing)**

**1 Semester**

**4 Graduation Credits**

**Applied**

**Skill: Yes**

Open to: Grades 11,12. Do you want to learn how to build a small building, wire a shop, or plumb a sink so you can have running water? Are you thinking about going into the trades one day? Do you want to know how to do basic carpentry, electrical, and plumbing repairs so you do not have to pay expensive hourly rates to service technicians? This could be your course! This is a very hands-on course with the focus being on developing skills with hand and power tools. There is a strong emphasis on safety and proper techniques. This course will provide you with time to explore different skills and develop a foundation for entering the work force or prepare you for a College Foundation Program.

## **CNC Machining & Design for Woodworking 11/12 (See ELECTRONICS also)**

**1 Semester**

**8 Graduation Credits**

**Applied Skill: Yes**

**Ministry Courses: Industrial Coding & Design 12 & Furniture & Cabinetry 12**

This course integrates traditional woodworking, digital design, and advanced manufacturing using a CNC wood router. In the wood shop, students will learn woodworking basics and how to operate a CNC machine. In the electronics shop, students will learn how to design their projects on the computer, create programs for the CNC, and use the laser engravers and 3D printers. This is a rare opportunity for students to learn specialized skills used in trades, engineering, industrial design, and many other careers. **This is an 8-credit, two-block course, taught by two teachers, and takes place in the wood shop and electronics shop.** Please see Mr. Dakiniewich or Mr. Ross if you have any questions.

## **Construction Trades Sampler**

See write up in Careers Explorations pg. 8

## **Transportation Trades Sampler**

See write up in Careers Explorations pg. 9

# CULINARY ARTS

## Culinary Arts 10

**1 Term/1 Semester**

**2 Graduation Credits / 4 Graduation Credits**

**Applied Skills: Yes**

Culinary Arts is a trade exploration course where you will learn how to cook in a hands-on environment and build the basic skills for working in a professional commercial kitchen. You will work as a team to prepare food that will be sold at lunch in the cafeteria. You will build a variety of skills including knife skills, measurement accuracy, ingredient storage and identification, and commercial kitchen equipment use. You will rotate through all the stations in the kitchen including Soup, Salad, Sandwich, Burger, Fries, Noodle Box, Special, Bake Shop, Pizza and Dishwashing. The menu will change every week giving you the opportunity to explore different cuisines and cooking techniques. Eating is a big part of learning how to cook; you will get to sample what you make and there will be plenty of occasions to eat food!

You will have the opportunity to earn your Food Safe certificate and gain valuable skills that can be added to your resume to help with job applications in the futures.

## Culinary Arts 11

**1 Semester**

**4 Graduation Credits**

**Applied Skills: Yes**

Culinary Arts is a trade exploration course where you will learn how to cook in a hands-on environment and build the basic skills for working in a professional commercial kitchen. You will work as a team to prepare food that will be sold at lunch in the cafeteria. You will build a variety of skills including knife skills, measurement accuracy, ingredient storage and identification, and commercial kitchen equipment use. You will rotate through all the stations in the kitchen including Soup, Salad, Sandwich, Burger, Fries, Noodle Box, Special, Bake Shop, Pizza and Dishwashing. The menu will change every week giving you the opportunity to explore different cuisines and cooking techniques. Eating is a big part of learning how to cook; you will get to sample what you make and there will be plenty of occasions to eat food!

You will have the opportunity to earn your Food Safe certificate and gain valuable skills that can be added to your resume to help with job applications in the futures.

Senior students who have taken culinary arts previously will take on a leadership role in the kitchen mentoring new students. You will continue to build your skills and move beyond the basics to include organization and time management, recipe development, costing and ordering of supplies.

## Culinary Arts 12

**1 Semester**

**4 Graduation Credits**

**Applied Skills: Yes**

**Strongly Recommend: Cafeteria 11**

Culinary Arts is a trade exploration course where you will learn how to cook in a hands-on environment and build the basic skills for working in a professional commercial kitchen. You will work as a team to prepare food that will be sold at lunch in the cafeteria. You will build a variety of skills including knife skills, measurement accuracy, ingredient storage and identification, and commercial kitchen equipment use. You will rotate through all the stations in the kitchen including Soup, Salad, Sandwich, Burger, Fries, Noodle Box, Special, Bake Shop, Pizza and Dishwashing. The menu will change every week giving you the opportunity to explore different cuisines and cooking techniques. Eating is a big part of learning how to cook; you will get to sample what you make and there will be plenty of occasions to eat food!

You will have the opportunity to earn your Food Safe certificate and gain valuable skills that can be added to your resume to help with job applications in the futures.

Senior students who have taken culinary arts previously will take on a leadership role in the kitchen mentoring new students. You will continue to build your skills and move beyond the basics to include organization and time management, recipe development, costing and ordering of supplies.

## Culinary Arts 12B

**1 Semester**

**4 Graduation Credits**

**Applied Skills: Yes**

**Strongly Recommend: Cafeteria 11 and 12**

Culinary Arts is a trade exploration course where you will learn how to cook in a hands-on environment and build the basic skills for working in a professional commercial kitchen. You will work as a team to prepare food that will be sold at lunch in the cafeteria. You will build a variety of skills including knife skills, measurement accuracy, ingredient storage and identification, and commercial kitchen equipment use. You will rotate through all the stations in the kitchen including Soup, Salad, Sandwich, Burger, Fries, Noodle Box, Special, Bake Shop, Pizza and Dishwashing. The menu will change every week giving you the opportunity to explore different cuisines and cooking techniques. Eating is a big part of learning how to cook; you will get to sample what you make and there will be plenty of occasions to eat food!

You will have the opportunity to earn your Food Safe certificate and gain valuable skills that can be added to your resume to help with job applications in the future.

Senior students who have taken culinary arts previously will take on a leadership role in the kitchen mentoring new students. You will continue to build your skills and move beyond the basics to include organization and time management, recipe development, costing and ordering of supplies.

## DANCE

### Dance 9

**1 Semester**

Dancing is great exercise, fun, and allows you to make connections with others and express yourself! This course explores the elements of movement and choreography while working to improve your dance performance skills, fitness level and abilities to interact with, collaborate with, and share ideas with others. The class is designed to work for all levels and if there is interest, a final public performance may be an option, but will not be mandatory.

### Dance 10/11/12

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

Dancing is a fantastic way to break up your day with a chance to make connections with others while working to improve dance technique, performance skills, and fitness. Explore the elements of movement and choreography and expressing yourself! The class is designed to accommodate all ranges of dance experience and although there will be a chance to perform for a public audience, it will not be mandatory.

## DRAMA, IMPROV and THEATRE

### Drama 10

**1 Term**

**2 Graduation Credits at the Grade 10 Level**

Everyone has the potential to excel in Drama and participation in a drama class will help everyone excel in life! Skills gained or increased in this class include communication and expression, personal and social skills and collaboration, and creativity and confidence. Course content covers creating scenes and characters, interpreting scripts, gaining specific skills and knowledge connected to theatre and improv (optional for those taking the class for a second time). No previous stage experience is necessary but those who arrive with enthusiasm will gain a great deal!

## IMPROV 10

**Yearlong**

**4 Graduation Credits at the Grade 10 Level**

**Fine Arts: Yes**

Improv-short for improvisation - is for anyone because with practice, everyone has the potential to succeed as an improviser! Students will have a chance to interact with others and improve their skills in collaboration, listening, self expression, creating improvised characters and scenes, and acting without a script. This course takes place throughout the year, outside the timetable and offers the opportunity for public Improv performances and a chance to be considered for the Vanier Improvisation Teams.

## IMPROV 11/12

**Yearlong**

**4 Graduation Credits**

**Fine Arts: Yes**

Improv offers experienced and/or enthusiastic students the chance to work on their skills in improvisation for the stage and to interact with others. Students will further develop their abilities in collaboration, listening, creating characters and scenes in different styles and formats and performing without a script. Improvisation students will have several performance opportunities, though performances are not mandatory. This class takes place throughout the year outside the timetable and offers a chance to be considered for Vanier's Improvisation Teams.

## Drama Performance 10

**1 Semester**

**4 Graduation Credits at the Grade 10 Level**

Every student has the potential to excel in theatre and theatre will help students excel with life and skills beyond the stage – in communication, people skills, and confidence. This course is for those who want to dig a little deeper to explore drama and enrich their drama skills through creating characters, scene development, script work and, for those interested, performing a show for an audience!

## Acting 11/12

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

This course will give students the chance to interact with others in order to explore and create theatre, and to gain a range of theatre skills that are extremely helpful for theatre and life in general. Skills we focus on include communication and expression, personal and social skills, collaboration, creativity and confidence. The course will also focus on many aspects specific to theatre including script interpretation, rehearsal techniques, theatre production and design, and theatre terminology. Students will have the opportunity to present their work to a public audience and in the first semester class to be a part of Vanier's entry to the North Island and or Provincial Drama Festival.

## Script Writing and/or Directing 11

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

This course is an introduction to the arts of script writing and directing. Get experience in writing and directing a variety of short theatre pieces. Performances of students' work will depend on the desire and ability of the class. Students are expected to be able to work and to complete tasks independently. If not, enough students enroll in this course, an independent study may be possible, arranged through the teacher. Because this course is usually combined with other theatre courses, students must be prepared and able to work independently.

## Script Writing and/or Directing 12

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

Students in this class will experiment with different techniques and approaches to script writing, learn and use the techniques of directing and have a chance to share their work and have it performed for an audience. Although the class involves sharing work with others, students will also often be expected to work independently. If not, enough students enroll in this course, an independent study can be arranged through the teacher. Because this course is usually combined with other theatre courses, students must be prepared and able to work independently.

## Theatre Production 11/12

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

The elements behind the scenes are a very important and powerful part of theatre and film. In this class, students will learn and practice some of the different duties in technical theatre – the work behind the scenes that helps share stories with audiences successfully. Some elements include stage management, lighting, sound, costumes, makeup, publicity, stage crew, set design, set construction, scenic painting, poster design, house management, tickets and programs. Students must be able to work independently. Theatre production 12 will involve more in-depth dedication to specific topics. If not enough students enroll in this course, an independent study can be arranged through the teacher.

# ELECTRONICS/3D DESIGN/ENGINEERING

## Engineering 12

**1 Semester**

**4 Graduation Credits**

**Applied Skills: Yes**

**Ministry Course: Engineering 12**

This is an in-depth computer-aided design (CAD) option is for students thinking of entering engineering, architecture, or other design-based careers. Before students propose their own project ideas, the course begins with an introduction to CAD software and some basic skills for working in the electronics shop. Students interested in Engineering 12 will need to be able to work independently, complete several tutorials, and navigate online resources. **No technical experience required.**

## Electronics & Computer-Aided Design (CAD) 10

**1 Term**

**2 Graduation Credits at the Grade 10 Level**

**Ministry Course: Electronics 10**

This is a hands-on course where you will make electronics projects and learn to use 3D modelling software. Students in this course will work with the laser engraver, 3D printers, computers, soldering irons, and other tools used in electronics. If you took this course in grade 9, you will learn some programming and use a microcontroller in at least one of your projects.

## Electronics & Computer-Aided Design (CAD) 11

**1 Semester**

**4 Graduation Credits**

**Applied Skills: Yes**

**Ministry Course: Electronics 11**

This course brings together project design, electronics, and 3D modelling. Students will explore printed circuit board (PCB) design and construction, programming, and CAD software. The 3D printers, laser engraver, electronics equipment, and conventional tools can all be incorporated into the construction of student projects. Students who have taken related courses may be allowed to design their own projects earlier in the course. **No previous experience required.**

## CNC Machining & Design for Woodworking 11/12 (See CARPENTRY & WOODWORK also)

1 Semester

8 Graduation Credits

Applied Skills: Yes

**Ministry Courses: Industrial Coding & Design 12 & Furniture & Cabinetry 12**

This course integrates traditional woodworking, digital design, and advanced manufacturing using a CNC wood router. In the wood shop, students will learn woodworking basics and how to operate a CNC machine. In the electronics shop, students will learn how to design their projects on the computer, create programs for the CNC, and use the laser engravers and 3D printers. This is a rare opportunity for students to learn specialized skills used in trades, engineering, industrial design, and many other careers. **This is an 8-credit, two-block course, taught by two teachers, and takes place in the wood shop and electronics shop.** Please see Mr. Dakiniewich or Mr. Ross if you have any questions.

## Electronics & Computer-Aided Design (CAD) 12

1 Semester

4 Graduation Credits

Applied Skills: Yes

**Ministry Course: Electronics 12**

The focus of this course is developing a technical project all the way from sketches to a finished product. Students have access to CAD software, equipment for making circuit boards, 3D printers, the laser engraver, and conventional tools in the shop to make their project a reality. Each project will begin with a proposal, which the student and teacher will use to narrow down a topic to pursue. If you took this course in grade 11, you may be given more freedom in your choice of project. **No previous experience required.**

## Physics and Engineering 11 (See SCIENCE, also)

1 Semester

8 Graduation Credits

Applied Skill: Yes

**Ministry Course: Engineering 11 & Physics 11**

**Strongly Recommended: Science 10 and at least 65% in Foundations or Pre-Calculus Math 10**

In contrast to conventional physics labs, students will explore the concepts covered in Physics 11 by conducting experiments on several design challenges. The challenges in Engineering 11 typically involve 3D modelling, the laser engraver, 3D printers, motors and gears, and conventional shop equipment. Physics & Engineering 11 is an 8-credit, two-block course, taught by two teachers, and covers both Physics 11 and Engineering 11. Students will need to conduct formal experiments and laboratory reports in addition to practice problem assignments. **This course meets the requirements for entrance to post-secondary institutions and Physics 12.**

# ENGLISH

## English 9

1 Semester

No Graduation Credits

English 9 provides a framework for students to experience language in its full range of contexts and purposes: students will be expected to use language to comprehend a wide range of literary and informational communications and to respond knowledgeably and critically to what they read, view, and hear. Students' abilities to understand and draw conclusions from communications whether written, spoken, or displayed visually and to defend their conclusions rationally is a major goal of education and the particular focus of the English Language Arts 9 course.

## **Literary Studies / Composition 10**

### **1 Semester**

### **4 Graduation Credits**

Literary Studies 10 is designed for students who are interested in the literature of a particular era, geographical area, or theme, or in the study of literature in general. The course allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media. Giving students the choice of a range of literary topics allows them to follow their passion and at the same time work towards developing skills in composition.

## **New Media / Spoken Language 10**

### **1 Semester**

### **4 Graduation Credits**

New Media 10/Spoken Language 10 is a program of studies designed to reflect the changing role of technology in today's society and the increasing importance of digital media in communicating and exchanging ideas and focus on the importance of spoken language and speech arts. This course is intended to allow students and educators the flexibility to develop a program of study centered on students' interests, needs, and abilities, while at the same time allowing for a range of local delivery methods. New Media 10 recognizes that digital literacy is an essential characteristic of the educated citizen. Coursework is aimed at providing students with a set of skills vital for success in an increasingly complex digital world by affording opportunities to demonstrate understanding and communicate ideas through a variety of digital and print media as well as incorporating spoken language into the study of language. New Media 10 explores tasks and texts designed to introduce students to the study of New Media and spoken language.

## **First Peoples Literary Studies/Composition 10**

### **1 Semester**

### **4 Graduation Credits**

### **Indigenous Studies: Yes**

First Peoples Literary Studies/Composition 10 is intended for both Indigenous and Non-Indigenous students. It represents an invitation to all learners to explore and discover First Peoples' worldviews through the study of literary, informational and media text with local, Canadian and International First Peoples' content. The class is the academic equivalent of English Language Arts 10 and allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media. English 9 is strongly recommended.

## **First Peoples Literary Studies/Writing 11**

### **1 Semester**

### **4 Graduation Credits**

### **Indigenous Studies: Yes**

First Peoples Literary Studies 11 is intended for both Indigenous and Non-Indigenous students. It represents an invitation to all learners to explore and discover First Peoples' worldviews through the study of literary, informational and media text with local, Canadian and International First Peoples' content. The class is the academic equivalent of English Language Arts 11. With an emphasis on Indigenous topics, authors and a wide scope of applicable literature, the course allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media.

## **First Peoples Literary Studies/New Media 11**

### **1 Semester**

### **4 Graduation Credits**

### **Indigenous Studies: Yes**

EPP Literary Studies/New Media 11 is designed for students who are interested in studying First Peoples' literature and examining the evolving role of technology in today's society, especially the increasing importance of digital media in communicating and exchanging ideas and engaging in social advocacy. Students delve deeply into First Peoples' oral and written literature in a range of media to explore various themes, authors, and topics. This provides a foundation for students to think critically and creatively as they continue to explore, extend, and strengthen their own writing and communication. Students examine the increasingly complex digital world and have opportunities to demonstrate understanding and communicate sophisticated ideas through a wide variety of digital and print media.

## LINK 11: (Credit given for English First Peoples 11 and Life Sciences 11) (See SCIENCE, also)

### 1 Semester

### 4 Graduation Credits

### IndigenousStudies: Yes

This integrated course combines English First Peoples 11 and Life Sciences 11, grounding learning in the land through Indigenous perspectives and Western scientific inquiry. Students will explore literature, storytelling, and scientific concepts through hands-on experiences, field trips to local ecosystems, and engagement with Indigenous knowledge keepers. By connecting language, culture, and the natural world, students will develop a deeper understanding of both Western scientific and Indigenous ways of knowing and being, while building skills in critical thinking, communication, and environmental stewardship.

## English Studies 12

### 1 Semester

### 4 Graduation Credits

The required English Studies 12 course builds on and extends students' previous learning experiences in previous ELA courses. It is designed for all students and provides them with opportunities to:

- refine their ability to communicate effectively in a variety of contexts and to achieve their personal and career goals
- think critically and creatively about the uses of language
- explore texts from a variety of sources, in multiple modes, and that reflect diverse worldviews
- deepen their understanding of themselves and others in a changing world
- gain insight into the diverse factors that shape identity
- appreciate the importance of self-representation through various methods of communication
- contribute to Reconciliation by building greater understanding of the knowledge and perspectives of First Peoples
- expand their understanding of what it means to be educated Canadian and global citizens

## English Studies 12 – Communication Skills

### 1 Semester

### 4 Graduation Credits

#### Students wanting to keep post-secondary academic options open should take English Studies 12

This variant of English Studies 12 is designed to help students become fully skilled language users, capable of comprehending and responding to the multiple forms and functions of language that surrounds them. This variant of the course focuses on the essential language skills students need to satisfy high school graduation requirements and function in daily life and the workplace. The following are possible focus areas in English Studies 12 (Communications Skills):

- Develop the basic reading and writing skills required of informed citizens
- think critically and creatively about the uses of language
- explore texts from a variety of sources, in multiple modes, and that reflect diverse worldviews
- deepen their understanding of themselves and others in a changing world
- digital communication – suggested content/topics include blogging, writing for the web, writing for social media, gaming, podcasting
- Develop a foundation of communications skills necessary for life-long learning

## First Peoples Literary Studies 12

**1 Semester**

**4 Graduation Credits**

**Indigenous Studies: Yes**

**Strongly Recommend: Literary Studies 11 or First Peoples Literary Studies 11**

First Peoples Literary Studies/Composition 11 is intended for both Indigenous and Non-Indigenous students. It represents an invitation to all learners to explore and discover First Peoples' worldviews through the study of literary, informational and media text with local, Canadian and International First Peoples' content. The class is the academic equivalent of English Language Arts 11. With an emphasis on Indigenous topics, authors and a wide scope of applicable literature, the course allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media.

## Creative Writing 10

**1 Term**

**2 Graduation Credits at the Grade 10 Level**

Creative Writing 10 was created for those students who have an aptitude for and an interest in creative writing. This course will take a portfolio approach to writing as students will build a collection of their work that includes assignments based on improving a variety of creative writing skills and genres. Although this course will have a positive impact on a student's writing skills, it is not a remedial writing course.

## Creative Writing 11/12

**1 Semester**

**4 Graduation Credits**

Creative Writing 11/12 is designed for students who have an aptitude for and an interest in creative writing. Although this course does have a positive impact on student writing, it is not a remedial writing course. This course will take a portfolio approach with both teacher-directed and student-directed writing. While Creative Writing 9/10 is not a pre-requisite, it is recommended that students have completed English 10.

# EXPLORE

This program is a unique opportunity for highly motivated grade 11 students to pursue the traditional academic requirements in an integrated studies program that combines academics with outdoor experiences. This one semester program begins in February at Georges P. Vanier Secondary School and is open to all students in School District #71.

<u>Do You?</u>	<u>Integrated Academics</u>	<u>Activities</u>	
<ul style="list-style-type: none"> <li>• Learn academic concepts quickly?</li> <li>• Love and respect the outdoors?</li> <li>• Enjoy challenges?</li> <li>• Like to work in a team setting?</li> <li>• Enjoy being fit?</li> <li>• Work independently?</li> <li>• Have a strong academic record?</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-Calculus 11</li> <li>• Life Science 11</li> <li>• English First Peoples 11</li> <li>• Active Living 11</li> <li>• Outdoor Leadership 11</li> <li>• Total Credits 20</li> </ul>	<ul style="list-style-type: none"> <li>• Kayaking</li> <li>• Backpacking</li> <li>• Water Safety</li> <li>• Tsolum River Stream Keeping</li> <li>• Teambuilding Activities</li> <li>• Overnight Camps</li> <li>• Camp Cooking</li> </ul>	

***Volunteer opportunities that can be used towards volunteer hours required for Grad Transitions***

## ADVANTAGES OF EXPLORE

- Education through integrated studies and blended learning
- Outdoor explorations
- Field trips (no class time missed)
- 20 credits in one semester
- Member of a dynamic team
- Memories to last a lifetime
- 80 hours physical activity

**\*Contains additional costs for potential course activities**

**Any students and families who are unable to pay the associated fees can contact admin and arrangements can be made to ensure money is not a barrier to this program.**

**For Further Information about Explore check out the link on the GP Vanier school website or see Mr. Pettigrew, Ms. MacKinnon or Mr. Hoy**

# HOME ECONOMICS

## Child Development and Caregiving 11/12

### 1 Semester

### 4 Graduation Credits

### Applied Skills: Yes

This course is designed for students who are interested in a career or future that involves children. This could include an occupation in childcare, healthcare, counselling, teaching, recreation or simply enjoy being around children or plan to become a parent in the future. It will also provide a deeper look into child development from birth to age 12, as well as parenting techniques, pregnancy and how to care for babies and children in each stage of development. This course integrates several methods of learning including interactive presentations, guest speakers and the opportunity to observe, interact and lead activities for preschool students at our neighboring daycare.

## Textiles 10

### 1 Term

### 2 Graduation Credits at the Grade 10 Level

### Applied Skills: Yes

This course introduces hand and machine construction techniques for producing and repairing textile items. We will learn about the environmental and ethical factors that influence textile choices and the impact of those choices on local and global communities.

## Fashion & Design 11/12

### 1 Semester

### 4 Graduation Credits

### Applied Skills: Yes

This course is primarily hands-on to build student's skills. We will create simple and complex textile designs. Students will learn techniques for repurposing textile items and strategies for modifying patterns. Students will learn the physical properties of fabrics, the relationship between fibre content, fabric type, and use. The social, cultural, and historical influences on clothing design and choices will be discussed as well as future career options in textile design, production, distribution and marketing.

## Food Studies 9

### 1 Term

Learn more about the world of cooking in this course. Students will prepare a variety of food dishes and bakery items to introduce them and increase their skills in the kitchen. Key concepts also include food trends, food waste, food borne illness and ethical issues related to food.

## Food Studies 10

### 1 Term

### 2 Graduation Credits

### Applied Skills: Yes

A variety of food products from the four food-groups will be created in this hands-on course covering the basics of cooking and meal preparation. Theory in foods, nutrition, Canada's Food Guide, and planning and safety will also be covered allowing for healthy food choices.

## Baking 12 – Specialized Studies in Food

### 1 Semester

### 4 Graduation Credits

### Applied Skills 11: Yes

#### Strongly Recommend: Foods 11 or by permission from instructor

This course will cover a wide variety of baked products, specialized design opportunities, and best practices in recipe development and preparation. Students will cover most of the basic baking methods, including muffins, scones, cookies, bars, cakes, choux pastry, short pastry, yeast breads as well as cake decorating with artistic elements.

## Food Studies 11

**1 Semester**

**4 Graduation Credits**

**Applied Skills: Yes**

This is a multi-level course building on the skills obtained in level 1 Foods. More advanced techniques and skills will be developed in both preparation and presentation. A portion of the course is dedicated to global food studies and issues related to food security and food waste. Evaluation based on individual as well as group work.

## Food Studies 12

**1 Semester**

**4 Graduation Credits**

**Applied Skills: Yes**

**Strongly Recommend: 4 Credits at the Grade 11 Level, or permission of the instructor.**

Using the Applied, Design, Skills and Technologies process, students will build on their creative, critical thinking and communication skills while making personal and social connections in Foods 12. Students will learn complex and meal recipe development, components of multi-course meal development and preparation, food justice, food safety and food production, food policies, indigenous food sovereignty, food philosophies and future career options in food service and interpersonal and consultation skills.

# INDIGENOUS EDUCATION

At Vanier, enhancement opportunities for Indigenous and non-Indigenous students are offered through the following services: **Academic Support by** Indigenous Education Assistant(s), **Cultural Appreciation through:** Classroom, school and community activities, leadership opportunities, **Individual Development supported by:** School Counsellor, School Based Team, Indigenous Personnel and Administration.

## BC First Peoples 12

**1 Semester**

**4 Graduation Credits**

**Indigenous Studies: Yes**

This course will focus on the varied identities and worldviews of Indigenous peoples, and the importance of the interconnection of family relationships, language, culture and the land. There will be a further exploration of factors that sustain and challenge the identities and worldviews of Indigenous peoples including building an understanding of colonial impacts and the resilience and survival of Indigenous peoples. Students will gain an understanding of the process and issues involved in the development of community partnerships and economic opportunities. This course further examines the responses to inequities in the relationships of indigenous peoples with governments in Canada and globally. Students will have the opportunity to develop an understanding of the Truth and Reconciliation process in Canada and around the world.

## First Peoples Literary Studies/Composition 10

**1 Semester**

**4 Graduation Credits**

**Indigenous Studies: Yes**

First Peoples' Literary Studies/Composition 10 is intended for both Indigenous and Non-Indigenous Students. It represents an invitation to all learners to explore and discover First Peoples' worldviews through the study of literary, informational and media text with local, Canadian and International First Peoples' content. The class is the academic equivalent of English Language Arts 10 and allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media. English 9 is strongly recommended.

## First Peoples Literary Studies 11

**1 Semester**

**4 Graduation Credits**

**Indigenous Studies: Yes**

**Strongly Recommend: Literary Studies/Composition 10 or First Peoples Literary Studies/Composition 10**

First Peoples Literary Studies/Composition 11 is intended for both Indigenous and Non-Indigenous students. It represents an invitation to all learners to explore and discover First Peoples' worldviews through the study of literary, informational and media text with local, Canadian and International First Peoples' content. The class is the academic equivalent of English Language Arts 11. With an emphasis on Indigenous topics, authors and a wide scope of applicable literature, the course allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media.

## First Peoples Literary Studies 12

**1 Semester**

**4 Graduation Credits**

**Indigenous Studies: Yes**

First Peoples Lit Studies 12 represents an invitation to all learners to explore and discover First Peoples' Worldviews through the study of literary, informational and media text. This curriculum will be primarily delivered through online, self-paced thematic units.

# INFORMATION TECHNOLOGY and MEDIA STUDIES

## Photography 10

**1 Term**

**2 Graduation Credits at the Grade 10 Level**

**Fine Arts: Yes**

This introductory course will teach students how to make awesome photographs using DSLRs or cellphone. Working in a fun hands-on, project-based environment, students will learn about composition, design elements, and a variety of photographic techniques. Students will also learn basic post processing techniques using Photoshop.

## Photography 10/11/12

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

This course will continue the skills taught in Digital Photography 9/10 for students who are interested in developing their photography skills. Students will learn advanced photographic techniques including using DSLRs, understanding camera settings, studio work, and post processing using Lightroom, Bridge, and Photoshop. Introduction to traditional darkroom film processing and printing are also included. A final portfolio is created in this course.

## Photography 11/12 (Advanced)

**1 Semester**

**4 Graduation Credits**

**Fine Arts: Yes**

This advanced course will continue the skills taught in Digital Photography for students who are interested in pursuing post-secondary studies in photography or art. Students will learn advanced photographic techniques including working with DSLRs, specialty lenses, studio lighting, and off camera flash. Advanced post processing projects using Lightroom, Bridge, and Photoshop include creating composites, cinemagraphs, traditional film processing and printing, and alternative image techniques. The focus is on creative processes and a final portfolio is created in this course.

## Digital Media Arts 10/11/12

### 1 Semester

### 4 Graduation Credits

Are you a digital artist, a coder, a film producer, an animator, a web designer, or a video game developer but just can't find a space and time to do it? Vanier's Digital Media Arts "hacker space" might be for you! This open-ended course is for self-directed students who are interested in project-based learning. You choose a focus, submit a proposal for a project(s), and get creative. Students will have access to video production gear, drawing tablets, and a whole range of software including the Adobe Creative Suite, Affinity Studio, Blender, and much more.

## Digital Animation 10

### 1 Term

### 2 Graduation Credits at the Grade 10 Level

In this introduction to 2D animation using Adobe Animate, students will learn the basics of creating and animating characters, objects, and scenes in short animations. In addition, students will learn how to add sound to their animation as well as building more complex animations that use a walk cycle and characters with expressions. No digital drawing experience is needed for this class.

## Digital Animation 10/11/12

### 1 Semester

### 4 Graduation Credits

This course will continue the skills taught in Digital Animation 9/10 with a focus on more complex characters, objects, and scenes in longer animations. More advanced techniques to create better animations will be introduced including: use of camera, advanced movement, and lip syncing dialogue. Students with a particular focus may have the opportunity to develop their own learning paths. A final project or demo reel is produced in this course.

## Graphic Design 10

### 1 Term

### 2 Graduation Credits at the Grade 10 Level

### Applied Skills 11: Yes

In this introductory graphic design course, you'll be using Adobe Illustrator and InDesign to create promotional media like illustrations, advertising, logos and posters. This hands-on, project-based course provides students with an introduction to design theory and practical skills using Adobe software.

## Graphic Design 10/11/12

### 1 Semester

### 4 Graduation Credits

### Applied Skills 11: Yes

In this advanced graphic design course, you'll primarily be working with Adobe Illustrator and InDesign for promotional and print media development. Students gain practical experience planning, designing and producing typography, logos, branding, packaging, advertisements, event posters, zines, and more!

## Film and Television Studies 10

### 1 Term

### 2 Graduation Credits at Grade 10

Do you like movies? Ever think about the way they are made? This class is for students interested in watching engaging films, exploring how they were made and what they have to say in entertaining ways, as well as creating their own films. Film and Television Studies give students the opportunity to view and reflect on a wide variety of genres, bring their own favorite films for viewing and have fun with the art of filmmaking. Students will learn skills involving criticism, theory, scripting, performance and production aspects of creating movies. The class will have the opportunity to create and collaborate on writing and developing their own films and share them with a wide audience.

## Film and Television Studies 11/12

### 1 Semester

### 4 Graduation Credits

### Applied Skills: Yes

Do you like movies? Ever think about the way they are made? This class is for students interested in watching engaging films, exploring how they were made and what they have to say in entertaining ways, as well as creating their own films. Film and Television Studies give students the opportunity to view and reflect on a wide variety of genres, bring their own favorite films for viewing and have fun with the art of filmmaking. Students will learn skills involving criticism, theory, scripting, performance and production aspects of creating movies. The class will have the opportunity to create and collaborate on writing and developing their own films and share them with a wide audience.

# LANGUAGES

## Introduction to French

### 1 Semester

### Strongly Recommend: French 8

**Prerequisite(s):** To those who did French 10 on Rosetta Stone during their grade 8 or 9 year, we very strongly advise that French 9 be taken in the first semester and the grade 10 level in the second. You will continue to communicate and comprehend French in a variety of ways. By the end of this course, you should be able to narrate real-life scenarios, such as emotions and well-being, seasonal activities, cultural events, daily routines, and travel. You will explore written and visual works that will allow you to make connections between language and culture. You will also gain more social and personal awareness skills through the lens of a global citizen.

## French 10

### 1 Semester

### 4 Graduation Credits

**Prerequisite(s):** To those who did French 10 on Rosetta Stone during their grade 8 or 9 year, we very strongly advise that French 9 be taken in the first semester and the grade 10 level in the second. You will learn more vocabulary and grammar techniques. You will also be challenged to use all the French you have learned from previous courses to communicate in various ways. By the end of this course, you should be able to narrate your feelings, opinions, and beliefs using a variety of real-life scenarios, such as community, directions, food shopping, emergencies, hobbies, and travel. You will respond to historical, contemporary, and authentic works, and will explore your cultural understanding through daily activities and interactions.

## French 11

### 1 Semester

### 4 Graduation Credits

#### Strongly Recommend: French 10 or with permission from the teacher

Do you want to travel, work, or take a language at post-secondary? If so, this is the course for you! You will learn more vocabulary and grammar techniques through stories. You will also be challenged to use all the French you have learned from previous courses to communicate in various ways. By the end of this course, you should be able to voice your thoughts and opinions using a variety of real-life scenarios; such as community, public services, celebrations, and professions. You will respond to historical, contemporary, and authentic works, and will explore your cultural understanding through daily activities, interactions, and story.

## French 12

### 1 Semester

### 4 Graduation Credits

#### **Strongly Recommend: French 11 or equivalent with permission from the instructor**

Continue to be challenged in your French language skills and use all the French you have learned from previous courses to communicate in various ways. By the end of this course, you should be able to voice your thoughts and opinions using a variety of real-life scenarios; such as community, public services, celebrations, and professions. You will expand your grammar with more comprehensive readings, writing assignments and conversations between your instructor and your peers. You will respond to historical, contemporary, and authentic works with more depth and will explore your cultural understanding through daily activities, interactions, and story.

## Introduction to Spanish

### 1 Semester

**Prerequisite(s):** To those who did Spanish 10 on Rosetta Stone during their grade 8 or 9 year, we very strongly advise that Intro to Spanish be taken in the first semester and the grade 10 level in the second.

**¿Quieres aprender español?** As a student of introductory Spanish, you will learn how to speak, read, and write in Spanish using real-life scenarios, such as shopping, food, family, friends, traveling, hobbies, and the household. You will use story to share your experiences and strengthen your own personal identity. You will also explore different regional variations of cultural identity through a variety of creative works.

## Spanish 10

### 1 Semester

### 4 Graduation Credits

**Strongly Recommend: Spanish 9/Introduction to Spanish:** To those who did Spanish 10 on Rosetta Stone during their grade 8 or 9 year, we very strongly advise that Spanish 9 be taken in the first semester and the grade 10 level in the second.

**¿Te gusta el mundo hispano?** You will continue to communicate and comprehend Spanish in a variety of ways. By the end of this course, you should be able to narrate real-life scenarios, such as emotions and well-being, seasonal activities, cultural events, daily routines and travel. You will explore written and visual works that will allow you to make connections between language and culture. You will also gain more social and personal awareness skills through the lens of a global citizen.

## Spanish 11

### 1 Semester

### 4 Graduation Credits

**Prerequisite(s):** To those who did Spanish 10 on Rosetta Stone during their grade 8 or 9 year, we very strongly advise that Spanish 9 be taken in the first semester and the grade 10 level in the second.

**¿Te gusta hablar español?** You will learn more vocabulary and grammar techniques. You will also be challenged to use all the Spanish you have learned from previous courses to communicate in various ways. By the end of this course, you should be able to narrate your feelings, opinions, and beliefs using a variety of real-life scenarios, such as community, directions, food shopping, emergencies, hobbies, and travel. You will respond to historical, contemporary, and authentic works, and will explore your cultural understanding through daily activities and interactions.

## Spanish 12

1 Semester

4 Graduation Credits

**Strongly Recommend: Spanish 11 or equivalent with permission from the instructor.**

**¿Quieres ser bilingüe?** Do you want to travel, work, or take a language at post-secondary? If so, this is the course for you! You will learn more vocabulary and grammar techniques through stories. You will also be challenged to use all the Spanish you have learned from previous courses to communicate in various ways. By the end of this course, you should be able to voice your thoughts and opinions using a variety of real-life scenarios, such as community, public services, celebrations, and professions. You will respond to historical, contemporary, and authentic works, and will explore your cultural understanding through daily activities, interactions, and story.

## Intro to Languages 10/11/12

1 Term or Semester

2 or 4 Graduation Credits

This course provides students with an introduction to the Romance languages and the diverse cultures they represent. Through the lens of travel and cultural exploration, students will learn key language skills while discovering the history, customs, traditions, and regional diversity of Romance-speaking countries. The focus will be on practical language use in travel scenarios, cultural immersion, and understanding how language shapes identity and communication.

# LEADERSHIP

## Leadership 9

1 Term

Leadership 9 is a course designed for enthusiastic, motivated and energetic students who wish to be part of the organization of events occurring in the school and community throughout the year. This course also provides students with many opportunities to develop their own unique leadership styles and skills as well as their potential as public speakers and team players. Public speaking is a mandatory component of this course.

## Leadership 10

1 Term

2 Graduation Credits

Leadership 10 is a course designed for enthusiastic, motivated and energetic students who wish to organize a variety of events for the school throughout the year. This course continues the development of a student's personal leadership style and leadership skills. Public speaking is mandatory. Students are expected to be team players.

## Community Events and Planning 10/11/12

**1 Term/1 Semester      2 Graduation Credits at the Grade 10 Level / 4 Graduation Credits at the Sr Level**

Students will run, organize and be an integral part of events within the school and community setting. If you want to get involved in your school this is the course for you. We will help with athletics, grad events, and community events. This course is dedicated to students that are enthusiastic, and willing to give of their time to make Vanier an even better place.

## **Leadership 11/12**

### **1 Semester**

### **4 Graduation Credits**

This course is all about developing real-world leadership skills while making a difference in our school and community. You will not just learn about leadership, you will live it through hands-on involvement in planning and running events by taking part in activities like assemblies, spirit events, fundraisers, theme days, and community projects, you'll gain practical experience in public speaking, teamwork and collaboration, as well as time management and organization. You will have opportunities to lead school-wide events like Clubs Day, Terry Fox Run, Careers Day, Christmas hampers, Remembrance Day and Winter Assemblies, and more. Plus, you can take on peer mentorship roles and help shape the culture of your school. If you are ready to step up, speak out, and make an impact, this course is for you!

## **Sports Leadership 10/11/12**

### **1 Semester**

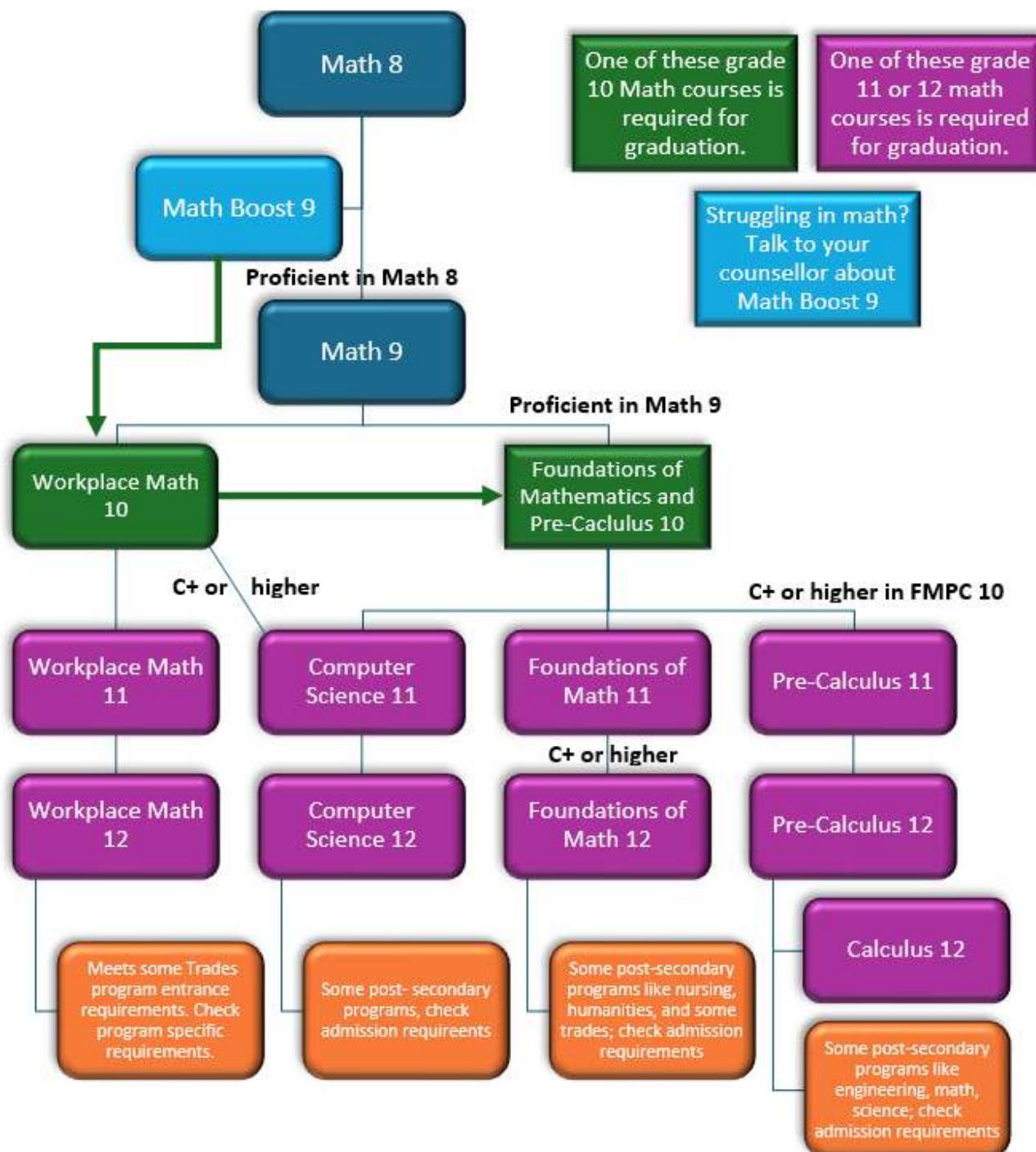
### **4 Graduation Credits at the Gr 10 Level**

Sports Leadership is an opportunity to become involved in athletics at Vanier! No prior experience is needed – just an interest and passion in sports and wanting to be a part of the action! It is offered outside the regular timetable as a ninth course. With the support of the teacher, students will plan, organize, and lead intramural activities during lunch twice a week. They will also volunteer to assist with after-school athletic programs and support home tournaments on weekends. This course will meet once a week at lunch on Monday and run for the first semester ONLY.

# Mathematics

The goals of all pathways are to provide prerequisite attitudes, knowledge, skills and understanding for specific post-secondary programs or direct entry into the workforce. When choosing a pathway, students should consider their current abilities and future interests.

Teacher Recommendations:



## Mathematics 9

### 1 Semester

This course focuses on theoretical aspects of math. Students will study problem-solving, number concepts, number operations, patterns, variables and equations, measurement, 3-D objects, 2-D shapes, data analysis, and probability. It is recommended that students enter this course with at least a “C” grade in Mathematics 8.

## Foundations and Pre-Calculus Mathematics 10

### 1 Semester

### 4 Graduation Credits

#### Strongly Recommend: students achieve at least 60% in Math 9

This course is designed to provide students with the skills required for post-secondary programs that do not require theoretical calculus, such as humanities, business and social sciences. It is also designed for students who intend to study theoretical calculus in the future. Topics include factoring of polynomial expressions, simplifying irrational numbers, powers with integral exponents, relations and functions, analysis of linear equations, solving systems of linear equations, trigonometry with primary ratios, and financial literacy.

\*Pre-Calculus 11 and 12 will be required courses for post-secondary entry into fields that require undergraduate study of theoretical calculus, including (but not limited to) mathematics, science, engineering, and medicine.

## Workplace Mathematics 10

### 1 Semester

### 4 Graduation Credits

This course is designed to provide students with the skills required for training in many post-secondary trades programs\* and for direct entry into the workforce. Topics include algebra and formula-use, unit conversion between metric and imperial systems, decimal and fractional measurements, area calculations, applications of Pythagorean Theorem, trigonometry with primary ratios, angle geometry, proportional analysis, income calculations, graphing, probability, and central tendency. After successfully completing this course at the grade 10 level, students will take Apprenticeship and Workplace Mathematics 11. After having fulfilled provincial graduation requirements in grade 11, students may choose to take Apprenticeship and Workplace Mathematics 12 as an elective (this may be required by some trades programs).

\*A small number of trades programs may require a more theoretical level of mathematics (or upgrading after graduation), making it essential to obtain exact requirements from post-secondary institutions themselves. For example, electrical, engineering and some mechanics courses have had some advanced mathematics requirements in the past. Contact college or trade-school academic advisors for further information.

## Computer Science 11

### 1 Semester

### 4 Graduation Credits

Computer Science 11 introduces students to programming and computational thinking as tools for solving real problems. Students learn to break complex tasks into smaller parts (decomposition) and design clear step-by-step solutions (algorithms). Through hands-on coding projects, students build skills in data representation, logical thinking, control flow (conditionals/loops), arrays/lists and searching, and writing well-organized programs using functions and modules. Students also apply computing to meaningful mathematical contexts, including financial “what-if” modelling and analysis. Communication and reflection are emphasized, and projects connect to place and community, including perspectives relevant to local First Peoples where appropriate and respectfully supported.

## Foundations of Mathematics 11

1 Semester

4 Graduation Credits

**Strongly Recommend: Completion of Foundations of Math and Pre-Calculus 10**

This pathway was designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies in programs that **do not require** the study of theoretical calculus. Topics include angle relationships, logical reasoning, statistics, quadratic functions, linear inequalities, financial literacy and proportional reasoning.

## Pre-Calculus 11

1 Semester

4 Graduation Credits

**Strongly Recommend: students achieve at least 70% in Foundations of Math & Pre-Calculus 10**

This pathway is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies that require the study of theoretical calculus. Topics include algebra & factoring, exponents, radical & rational functions, quadratic equations, graphing, trigonometry, linear & quadratic inequalities, and financial literacy.

## Workplace Mathematics 11

1 Semester

4 Graduation Credits

**Strongly Recommend: Workplace Mathematics 10 or Foundations Pre-Calculus Math 10**

This pathway is designed to provide students with the mathematical understandings and critical thinking skills identified for direct entry into the workforce. Topics include algebra, data analysis and statistics, scale and scale factor, owning and operating a vehicle and personal finance.

## Foundations of Mathematics 12

1 Semester

4 Graduation Credits

**Strongly Recommend: students achieve at least 60% in Foundations of Math 11**

This pathway is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Topics include financial mathematics (renting, leasing, buying, interest, loans), puzzles and games, logical reasoning, functions and relations, statistics and probability (fundamental counting theorem, permutations\combinations).

## Computer Science 12

1 Semester

4 Graduation Credits

**Strongly Recommend: students achieve at least 67% in Computer Science 11**

Computer Science 12 builds on programming skills from CS11 and focuses on how efficient software and data systems work. Students explore how information is stored and accessed in memory, how data structures organize information, and how algorithm choices affect speed and performance. Students learn classic searching and sorting algorithms, Big-O runtime analysis, recursion, persistent storage (files/databases), and clean program design through encapsulation. Projects involve building and improving larger programs, working with datasets, and explaining design choices clearly. Learning also includes reflection and connections to place and community, including perspectives relevant to local First Peoples where appropriate and respectfully supported.

## Pre-Calculus 12

1 Semester

4 Graduation Credits

**Strongly Recommend:** students achieve at least 67% in Pre-Calculus 11

This is a challenging course designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies that require the study of theoretical calculus. Topics include transformations of functions & relations, exponential functions & equations, geometric sequences & series, logarithms, polynomial functions & equations, rational functions, and trigonometric functions, equations, & identities.

## Calculus 12

1 Semester

4 Graduation Credits

**Strongly Recommend:** that students achieve at least 75% in Pre-Calculus 12

This is a challenging course that is useful to students who are planning post-secondary courses of study which include calculus and wish to investigate the subject in advance. It will provide students with the opportunity to develop their math knowledge beyond Pre-Calculus 12 while still in secondary school. Many of the topics covered are similar to a first-year course in calculus at a university or college but are taught at a secondary level so that a solid mathematics background can be formed for the students' future mathematics courses. Topics include functions and graphs, limits, differentiation, and integration.

# METALWORK

## Metalwork 10

1 Term

2 Graduation Credits at the Grade 10 Level

Applied Skills: Yes

Metal Work 10 is a course where you develop metal work and design skills as you complete a variety of assignments. There is an emphasis on group problem-solving, which is taught along with the metal work. These are different projects than Metalwork Technology 10. Students who took this course in grade 9 are welcome to take the course again in grade 10, with different projects being created.

## Metalwork 11

1 Semester

4 Graduation Credits

Applied Skills: Yes

**Strongly Recommend:** A Metal 9/10 course recommended

This is a metal technology course that provides interesting opportunities for students to explore machine use, basic engineering problems and much more, including art metal and jewelry design. You will have the freedom to work independently and co-operatively in groups on projects, and to learn how research and development is accomplished by engineers, technicians and artists. Bring your unique ideas and we will explore them. This course is activity-based and provides challenging opportunities to discover the world of metals and their many uses.

## Metalwork 12

1 Semester

4 Graduation Credits

Applied Skills: Yes

**Strongly Recommend:** Metal Work 11 or approval of instructor

Metal Work 12, will provide students with the opportunities to apply skills and techniques learned in Metal Work, to a range of open-ended problems. Opportunities will be provided to research and develop a wide variety of applications for metal working skills. For the students interested in the more traditional machine shop operations, opportunities to expand and refine their skills will also be provided. Students enrolling in Metal Work, must recognize the need for and value of student-directed learning and self-motivation in the design and reaction of projects while working in a safe, responsible manner.

## Jewelry 10

1 Term

2 Graduation Credits at the Grade 10 Level

Applied Skills: Yes

**Recommend: Metalwork 10**

Design and make your own one-of-a-kind jewelry! You will learn several metalworking techniques to make custom rings, bracelets, pendants, keychains, and castings. Our participatory and hands-on class is designed to help everyone feel comfortable and safe using tools and machines.

## Jewelry & Metalwork 11/12

1 Semester

4 Graduation Credits

Applied Skills: Yes

Design and make your own creative, unique jewelry, and learn how to work with fire and build with metal! Skills include safe use of machines & hand-tools, hot and cold joining, professional lost-wax casting, and even a bit of welding and lathe-work to build projects from rings to belt buckles. Both set and self-directed projects can take you almost anywhere you'd like to go in this course!

# MUSIC

## Band 9

All Year/Alternate Days

**Strongly Recommend: Band 8, or permission of the GP Vanier Music Dept**

This course offers students the opportunity to study instrumental music in a group setting and is a continuation of Band 8. The class will focus on individual and ensemble playing techniques, musical literacy, teamwork and group effort, and the rehearsal and performance of a variety of styles of concert band music. This ensemble will perform in concerts, in local and provincial festivals and a variety of community events. Regular at home practice is expected.

## Beginning Band 9/10

1 Term

**Gr 8,9 No Graduation Credits/Gr 10,11,12 2 Graduation Credits**

This course has been specifically designed for those students in grade 9 & 10 that are interested in learning a band instrument that may not have had the opportunity to be in band in earlier grades or at a previous school. With guidance from the teacher, students will choose a standard concert band instrument to learn how to play while also learning how to read music and perform a variety of musical styles. There is an emphasis on developing teamwork and group rehearsal skills in addition to individual playing proficiency. Beginning Band 9/10 is the best place to start before joining Band 9/10 in Term 2.

## Band 10/11/12

All Year/Alternate Days

4 Graduation Credits

Fine Arts: Yes

**Strongly Recommend: Band 9/10/11 or permission of GP Vanier Music Dept, or Beginning Band**

These three courses offer students the opportunity to study instrumental music in a group setting. They will focus on individual and ensemble playing techniques, musical literacy, teamwork and group effort, and the rehearsal and performance of a variety of styles of concert band music. This ensemble will perform in concerts, in local and provincial festivals, and at a variety of community events. Regular at home practice is expected.

## **Band and Wood Shop 11/12**

### **All Year/Alternate Days**

### **8 Graduation Credits**

Are you a band student in grades 10-12? Do you dream of having a class made just for you to compliment your day 1/day 2 band schedule? This might be the place for you. A woodshop class tailored for band students meeting every other day for the year. The focus during semester 1 will be on creating marketable projects that will be sold at the winter concert. Why? So that you can fundraise for band trips while attending a class! Semester two will see more ambitious projects and be student inspired. Want to try making a cigar box guitar? Want to build a cool marble track for your cousin? Feel like trying to make wooden percussion instruments? This is the place for you. The woodshop is a learning environment where we connect the head, the heart, and the hands to build projects in a safe, caring environment. See Mr. D or Ms. Livingstone if you have further questions.

## **Vanier Vocalists 8/9/10/11/12**

### **1 Term**

### **Gr 8,9 No Graduation Credits/Gr 10,11,12 2 Graduation Credits**

Are you looking for a music credit but playing an instrument just isn't for you? Singing with the choir is the answer! The only requirement to joining is your willingness to try new things, bring your enthusiasm to rehearsals, and be a supportive member of the group. All level, from beginner to experienced are welcome. There will be opportunities to perform and share our work with outside of class time.

## **Jazz Band Grades 9/10/11/12**

### **4 Graduations Credits at Grades 10,11,12**

### **Fine Arts: Yes**

#### **All Year - Tuesday & Thursday mornings 7:30 am - 8:45 am**

This course offers students an opportunity to study Jazz in an instrumental group setting. In addition to rehearsing and performing works in a variety of jazz styles, students will also learn historical and theoretical concept specific to jazz. The topic of improvisation will be introduced and developed throughout the year. This ensemble will perform in concerts, at a variety of community events, and when possible, in a festival. All members of the ensemble are expected to be members of the concert band.

## **Guitar Level 1**

### **1 Term**

### **2 Graduation Credits at the Grade 10 Level**

### **Fine Arts: Yes**

This course is designed to help beginning guitarists achieve a number of musical goals. No previous experience is required. The main focus will be to learn a variety of basic techniques and styles so students can pursue their own musical interests in the future. Guitars are available for students who do not have their own.

## **Guitar Level 2**

### **1 Semester**

### **4 Graduation Credits**

### **Fine Arts: Yes**

This course is intended for students who have some previous guitar experience. It is recommended that Beginner Guitar be taken first. Topics to be covered include: fundamental guitar technique, music literacy (scales, chord symbols and tablature) and various musical styles. Students will have the opportunity to pursue projects of their own choosing. Guitars are available for students who do not have their own.

# PHYSICAL and HEALTH EDUCATION

**Successful completion of Physical and Health Education 10 is a REQUIREMENT for graduation**

## **Physical and Health Education 9**

This course builds on the foundations of PHE 8 in which students continue to do, learn, and understand how movement is an essential aspect of our overall health. In PHE 9 we use games, dance, gymnastics, fitness activities, and outdoor pursuits to find joy in movement, to improve our physical skills, and to stay healthy. In addition, students in PHE 9 participate in several academic health units that focus on mental well-being, community and social health, and sexual health.

## **Physical and Health Education 9 backed onto Band 9 linear**

### **Alternate Days**

This course builds on the foundations of PHE 8 in which the student learns to recognize and appreciate the place of sport and physical fitness as an essential aspect of overall health and physical literacy. The course is designed to improve physical strength, cardiovascular efficiency, and neuromuscular skills as well as to learn knowledge of game rules and strategies through involvement in a variety of individual and group activities. In addition, students will investigate different aspects of health including: mental well-being, community and social health, and sexual health. The curriculum covers Team Games, Individual Sports, Dance, Gymnastics and Alternate Activities.

## **Physical and Health Education 10**

**1 Semester**

**4 Graduation Credits**

### **Strongly Recommend: Physical & Health Education 9**

Students will participate in a wide variety of activities to enhance their physical literacy and understanding of overall health. In addition, students will participate in activities in which they take on leadership roles to better understand personal and social responsibility. Finally, students will participate in a comprehensive health unit that includes modules in sexual health, mental health, and community health.

## **Physical and Health Education 10 backed onto Band 10 Linear**

### **Alternate Days**

**4 Graduation Credits**

This course builds on the foundations of PHE 9 in which the student learns to recognize and appreciate the place of sport and physical fitness as an essential aspect of overall health and physical literacy. The course is designed to improve physical strength, cardiovascular efficiency, and neuromuscular skills as well as to learn knowledge of game rules and strategies through involvement in a variety of individual and group activities. In addition, students will investigate different aspects of health including: mental well-being, community and social health, and sexual health. The curriculum covers Team Games, Individual Sports, Dance, Gymnastics and Alternate Activities.

## Adventures in the Outdoors 10 (See SCIENCE, also)

### Semester

### 8 Graduation Credits (4 Science 10 plus 4 PHE 10)

Adventures in Outdoor Education is a blend of Outdoor Education skills and experiences with an inquiry-based approach to Science 10. Taking advantage of good weather in a double block the cohort experience will engage students in the environment around them. Reinforcing scientific learning through the lens of becoming comfortable in many aspects of the outdoors. Tunnel through the molecular mysteries of the snow and paddle through genetically diverse waters. Students must be willing and interested in challenging themselves outdoor to enrich their learning experience.

\*Contains additional costs for potential course activities.

\*Any students and families who are unable to pay the associated fees can contact admin and arrangements can be made to ensure money is not a barrier to this program.

## PE Games 10

### 1 Term

### 2 Graduation Credits at the Grade 10 Level

This term elective will feature a variety of individual, dual, and team-based games. Emphasis will be on fun, fair play, working together as a team, and developing recreational and sport leadership skills.

## Fitness 10 (Personal Fitness)

### 1 Term

### 2 Graduation Credits

Fitness 10 is a term elective designed to allow students to develop their movement skills and comprehensive personal fitness. The course will be a mixture of teacher led and student-centered activities to allow for personal goals to be set and achieved. Safety, movement skills and techniques, goal setting, principles of developing fitness, and program design will be covered. In addition, the importance of rest, nutrition, and recovery will be stressed. This course will appeal to all students whether they want to improve their sport performance or general health.

## Health and Wellness 10

### 1 Term

### 2 Graduation Credits at the Grade 10 Level

Health & Wellness 10 is a new course to Vanier as of September 2021. This course is based on the eight dimensions of health: Financial Health, Intellectual Health, Emotional Health, Occupational Health, Physical Health, Social Health, Spiritual Health, and Environmental Health. Students will learn about each dimension and put newly learned skills into practice. Resilience and life balance are also key learning principles in the course curriculum.

## Rugby 10

### 1 Term

### 2 Graduation Credits at the Grade 10 Level

This course offered to Gr 10s, is designed to improve Rugby skills on and off the field. Fitness and speed training will occur on the field, while coaching and leadership skills will be developed off the field.

## Physical and Health Education: Games 11/12

### 1 Semester

### 4 Graduation Credits

#### Strongly Recommend: PHE 10 COURSE

Games 11/12 is a semester long elective that will continue to give students an opportunity to participate in and enjoy a variety of games. Some units may be organized into mini “sport seasons” in which students play as part of a fixed team. Emphasis will be on being an effective team player, developing team leadership (i.e. being a team coach or a game official), improving game play, understanding sportsmanship, and having FUN!

## **Physical and Health Education 11 (Active Living 11)**

### **1 Semester**

### **4 Graduation Credits**

This course will give students the opportunity to participate in a wide range of activities commonly offered in the community. Activities may include games, recreational activities (i.e. curling, bowling, beach volleyball, squash, tennis, and others), outdoor activities, and personal health and fitness. Some activities may occur off campus. Emphasis will be placed on developing one's physical literacy and understanding healthy habits.

## **Physical and Health Education 12 (Active Living 12)**

### **1 Semester**

### **4 Graduation Credits**

*Active Living 12* builds on the health and activity focus of *Active Living 11*. This course will continue to give students the opportunity to participate in a wide range of activities commonly offered in the community. Activities may include games, recreational activities (i.e. curling, bowling, beach volleyball, squash, tennis, and others), outdoor activities, and personal health and fitness. Some activities may occur off campus. Emphasis will be placed on developing one's physical literacy and understanding healthy habits.

## **Fitness and Conditioning 11 (Personal Fitness 11)**

### **1 Semester**

### **4 Graduation Credits**

Fitness and Conditioning 11 is designed to give students the knowledge and skills necessary to improve their physical fitness levels. Initially, students will work towards developing efficient and safe movement skills. Students will then set personal fitness goals and select or design a program. The principles of fitness, movement principles, components of fitness, and program design will be covered. Finally, the importance of nutrition, rest, and recovery will be covered in relation to fitness and overall health. Students can focus on athletic development (skills, strength and conditioning), strength development, cardiovascular development, or on overall health and wellness.

## **Fitness and Conditioning 12 (Personal Fitness 12)**

### **1 Semester**

### **4 Graduation Credits**

Fitness and Conditioning 12 continues from Fitness and Conditioning 11 in that students will set personal goals and design a program to meet those goals. In addition, students will investigate the use of a wider variety of exercises, different program designs, and investigate the principles of nutrition and its effect on health.

## **Rugby 11/12**

### **1 Semester**

### **4 Graduation Credits**

#### **Strongly Recommend: Rugby 10**

Rugby Level 2 is a senior course designed for grade 11/12 rugby players looking to improve the basic principles and foundations developed in Level 1. Specifically, this high-performance class will include: i) Position – specific physical conditioning; ii) Position – specific technical and tactical preparation; iii) Position – specific technical and playing skills under competitive conditions; iv) Mental training and preparation; v) Provide athlete-centered planning and decision-making skills; vi) Recovery programs to maximize sports participation. This high-performance class incorporates attack and defense principles in the game of rugby. Physical contact is a significant portion of this course and mouth guards will be required. In addition, students will participate in comprehensive strength and conditioning program designed to enhance their athletic performance, ability to recover, understanding of fitness components and principles, and understanding of nutrition. The fitness classes will alternate with the rugby field classes. This class is open to anyone who wants to learn the game!

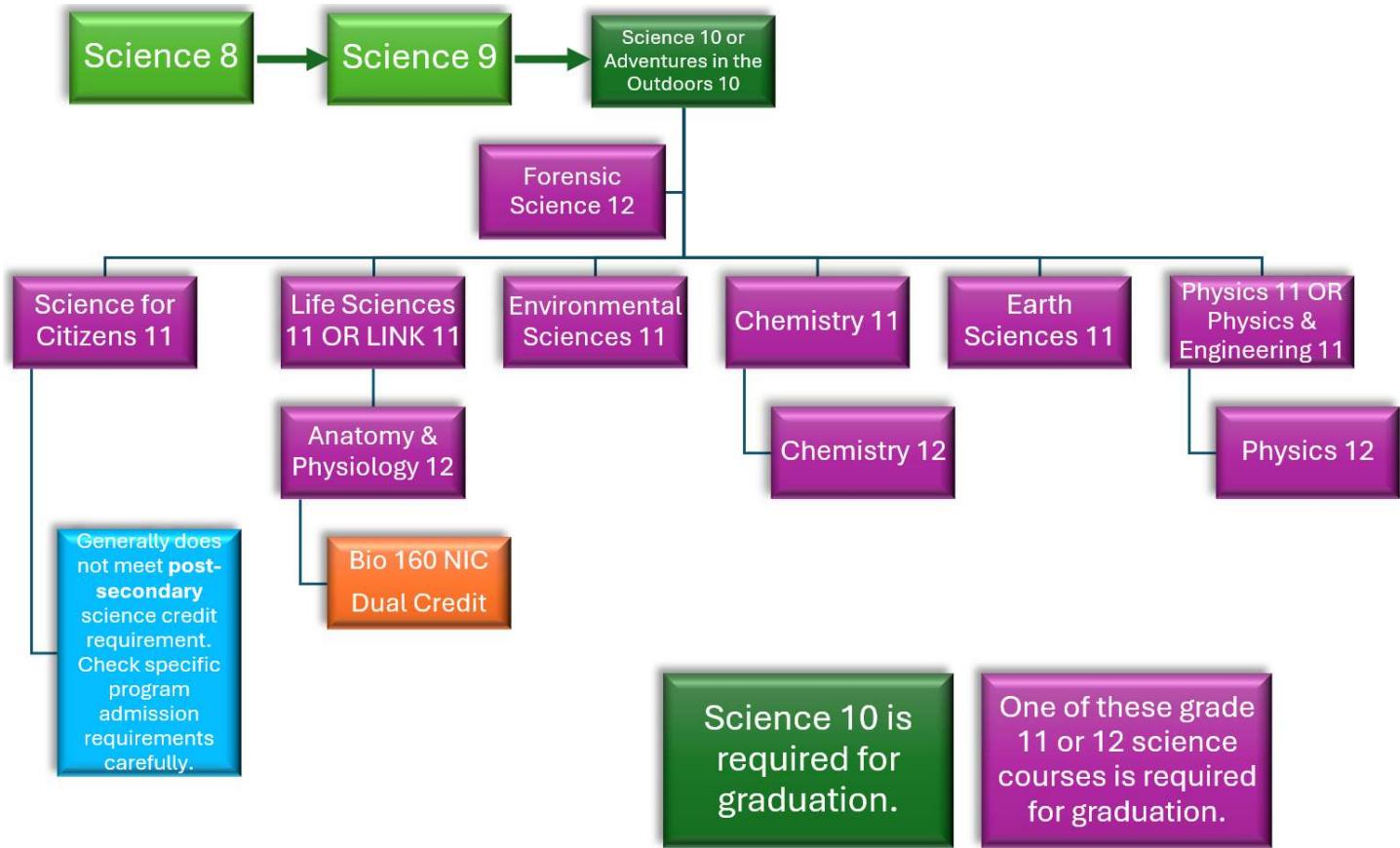
## **Sports Medicine 11/12**

**1 Semester**

**4 Graduation Credits**

Sports Medicine is to prepare prospective medical practitioners with a basic understanding in the area of sport injuries, first aid care, training room management, and career opportunities related to sports medicine, nutrition, anatomy and physiology. This course offers a logical beginning for those interested in fields such as sports medicine, physiotherapy, massage therapy, nursing, physical education, or emergency medical technician.

# Sciences



## Science 9

Building on laboratory skills and the methods of scientific inquiry introduced in Grade 8, students discover some of the basic principles of Physics (electricity), Chemistry (atomic theory and bonding), Biology (cell reproduction) and Earth or Space Science (Biosphere, Geosphere, Hydrosphere and Atmosphere are interconnected), through experimentation.

## Science 10

### 1 Semester

### 4 Graduation Credits

Science 10 is a required course. It is a survey course that acquaints the student with some basic Biology, Chemistry, Earth Science and Physics. This course should help the student decide which area of science to study at the Grade 11 level. Students will perform various laboratory experiments and projects.

## Adventures in the Outdoors 10 (See PHE, also)

### 1 Semester

### 8 Graduation Credits (4 Science 10 plus 4 PHE 10)

Adventures in Outdoor Education is a blend of Outdoor Education skills and experiences with an inquiry-based approach to Science 10. Taking advantage of good weather in a double block the cohort experience will engage students in the environment around them. Reinforcing scientific learning through the lens of becoming comfortable in many aspects of the outdoors. Tunnel through the molecular mysteries of the snow and paddle through genetically diverse waters. Students must be willing and interested in challenging themselves outdoor to enrich their learning experience.

\*Contains additional costs for potential course activities

## Science for Citizens 11

### 1 Semester

### 4 Graduation Credits

#### Strongly Recommend: Science 10

This course takes a different approach to science and will help you learn how science, through technology, affects you and the world around you. Through distinct modules you will explore a series of topics. Videos, newspapers, magazines, oral reports, and class discussion play an important role in this course. Active participation in discussions, group activities, and completion of work help to determine a student's mark.

## Environmental Science 11

### 1 Semester

### 4 Graduation Credits

#### Strongly Recommend: Science 10

Environmental Science 11 is a course that explores the connections between organisms within ecological systems and the humans who occupy and influence them. By learning about the structure and diversity of natural systems, students will examine human impacts in order to promote better stewardship, restoration, and support of the environment. Students will explore how human needs and decisions affect the natural world through local and global activities and case studies.

## Physics 11

**1 Semester**

**4 Graduation Credits**

**Strongly Recommend: Science 10 as well as 73% in Foundations and Pre-Calculus Mathematics 10 (or completion of Math 11).**

Physics 11 explores the “big ideas” of motion, forces, energy, and waves using models, experiments, and problem-solving to explain how the physical world works. Students learn through formal labs and investigations, developing skills in safe measurement, SI units, significant figures/uncertainty, and graphing and analyzing relationships. Topics typically include vectors, uniform and accelerated motion (including projectile motion), Newton’s laws and free-body diagrams, work/energy/power, simple machines (including First Peoples applications), DC circuits (Ohm’s and Kirchhoff’s laws), and waves and sound. This is a math- and problem-solving intensive academic course that prepares students for Physics 12 and many post-secondary pathways. If you’re concerned about the math, taking Pre-Calculus 11 or Foundations 11 first is a good plan.

## Physics and Engineering 11

**1 Semester**

**8 Graduation Credits**

**Applied Skill : Yes**

**Strongly Recommend: Science 10 as well as 65% in Foundations and Pre-Calculus Mathematics 10 or prior completion of Math 11**

In contrast to conventional physics labs, students will explore the concepts covered in Physics 11 by conducting experiments on several design challenges. The challenges in Engineering 11 typically involve 3D modelling, the laser engraver, 3D printers, motors and gears, and conventional shop equipment. Physics & Engineering 11 is an 8-credit, two-block course, taught by two teachers, and covers both Physics 11 and Engineering 11. Students will need to conduct formal experiments and laboratory reports in addition to practice problem assignments. **This course meets the requirements for entrance to post-secondary institutions and Physics 12.**

## Life Science 11

**1 Semester**

**4 Graduation Credits**

**Strongly Recommend: Science 10**

Life Sciences 11 explores how life works at the molecular and cellular level, how evolution shapes populations, and how organisms are grouped based on shared characteristics. Students learn through hands-on labs and investigations, building skills to ask testable questions, form hypotheses, collect and analyze data, evaluate evidence (including bias and sources of error), and communicate scientific explanations. Topics commonly include cell structure and function, reproduction, photosynthesis & cellular respiration, viruses and immunity, micro- and macroevolution, and biological classification with connections to local place and First Peoples perspectives. This is a content-rich academic course that helps prepare students for Anatomy & Physiology 12 and many post-secondary pathways.

## Chemistry 11

**1 Semester**

**4 Graduation Credits**

**Strongly Recommend: Science 10**

**Recommended: 73% in FMPC 10 (or completion of Math 11). As well as a strong standing in the Chemistry section of Science 10**

Chemistry 11 helps students explain everyday materials and processes using core chemical ideas: atomic structure and bonding, the mole and quantitative chemistry, conservation of matter and energy in reactions, solution chemistry/solubility, and an introduction to organic chemistry and its impacts on health, society, and the environment. Students develop skills through hands-on labs and investigations, with an emphasis on safe lab technique, careful measurement (significant figures/uncertainty), analyzing data and sources of error, evaluating claims and bias, and communicating evidence-based explanations, often with connections to local contexts and green chemistry. This is a content- and calculation-rich academic course that supports entry into Chemistry 12 and many post-secondary pathways

## Earth Sciences 11

**1 Semester**

**4 Graduation Credits**

**Strongly Recommend: Science 10**

Earth Science 11 is an introductory course into the fascinating fields of astronomy, geology and atmospheric sciences. Students will learn about stars and galaxies, planets and moons, and focus in on aspects of our own planet, including the formation and identification of rocks and minerals, the causes of earthquakes and volcanic activity, and the reasons why we get so much rain in the winter. This course is suitable for students who are strong in the sciences as well as those who are looking for a science credit towards graduation.

## LINK 11: (Credit given for English First Peoples 11 and Life Sciences 11) (See ENGLISH also)

**1 Semester**

**4 Graduation Credits**

This integrated course combines English First Peoples 11 and Life Sciences 11, grounding learning in the land through Indigenous perspectives and Western scientific inquiry. Students will explore literature, storytelling, and scientific concepts through hands-on experiences, field trips to local ecosystems, and engagement with Indigenous knowledge keepers. By connecting language, culture, and the natural world, students will develop a deeper understanding of both Western scientific and Indigenous ways of knowing and being, while building skills in critical thinking, communication, and environmental stewardship.

## Anatomy and Physiology 12

**1 Semester**

**4 Graduation Credits**

Anatomy & Physiology 12 is an academic science course focused on human biology. Students explore how cells, tissues, and organs work together to maintain homeostasis, and how body systems interact to keep the body functioning in changing conditions. Learning happens through labs, models, and case-study style problem solving. Students strengthen skills in interpreting biological data, applying scientific reasoning, communicating explanations, and connecting structure to function across systems. Topics commonly include cell processes and communication, nervous and endocrine regulation, cardiovascular and respiratory function, digestion and nutrition, immune function, and how disruptions to homeostasis relate to health and disease. Dissection of fresh or preserved specimens may be offered as a learning experience; alternatives can be provided when needed. This course is good preparation for many post-secondary programs that require a biology background, and it is also a strong choice for students interested in health, fitness, and how the human body works.

## Chemistry 12

**1 Semester**

**4 Graduation Credits**

**Strongly Recommend: Chemistry 11, and a mark of 67% or better in Math 11**

Chemistry covers in detail the theory of why chemical reactions occur. Unlike Chemistry 11 which touches on several topics, Chemistry 12 studies 5 detailed units. Students are required to perform various experiments and turn in thorough lab reports. This course may be used as an academic Grade 12 level course for university entrance.

## Physics 12

**1 Semester**

**4 Graduation Credits**

**Strongly Recommend: Physics 11, and recommended 73% in Physics 11 and Mathematics 11**

Physics 12 is a pre-requisite course for most post-secondary science programs and is strongly recommended for serious science students. It covers less topics than in Physics 11, but in more detail with a higher degree of mathematical analysis and a significantly higher level of difficulty. Fewer but more in-depth laboratory experiments reinforce various concepts in the course. Physics 12 may be used as an academic Grade 12 level course for university entrance.

## Forensic Science 12

### 1 Semester

### 4 Graduation Credits

Although the crime scene represents the first step in solving crimes through forensic science, the crime laboratory plays a critical role in the analysis of evidence. This course focuses on the analysis of evidence and testing that takes place within this setting. We will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined.

# SOCIAL STUDIES

## CSI Law - Criminal Minds 10

### 1 Term

### 2 Graduation Credits at the Grade 10 Level

Crime Scene Investigation (CSI) Law is an exploration of the major areas of crime scene examination. Students will take a deep dive into understanding theories of searching and dealing with the entire range of physical evidence located during crime scene investigations.

## Introductory Law 10

### 1 Term

### 2 Graduation Credits at the Grade 10 Level

Introduction to Law takes you to the scene of the crime, to the crime lab, into the heads of investigators and through the legal process from arrest to trial. You'll get a chance to hone your sleuthing skills, working to solve crimes. You'll find case files describing how police solve crimes and catch criminals, some as real as the latest police report, some made up of details from several cases. You'll walk, step by step, through every stage of the criminal justice system and we will debunk a few myths about the police and the courts in Canada. Topics include: Criminology, Criminal Pathology (profiling), Crime Scene Investigation, Forensic Science, Arrests, Searches, Trials and Sentencing.

## Social Studies 9

### 1 Semester

Grade 9 Social Studies deals with some big ideas that affected local, national and international people and events from 1750-1919. Students learn about how emerging ideas (like political, social, economic and technological revolutions) profoundly influenced societies. How the physical geographic world influenced political, social and economic change will be explored, and students will try to understand how unequal power structures influenced where people lived and moved to and caused conflict between and among societies. Lastly, create understanding as to how collective identity is created.

## Social Studies 10

### 1 Semester

### 4 Graduation Credits

Social Studies 10 is a graduation required course that examines concepts and content from the 20th century, mainly from a Canadian perspective. Students will continue developing historical thinking skills (significance, evidence, continuity and change, cause and consequence, perspective, and ethical judgment) and be encouraged to see the connections between current events and those in the past. Content is chosen to support the following "Big Ideas":

- Local, national, and global conflict can have lasting effects on the contemporary world
- The development of political organizations is influenced by economic, social, ideological, and geographical factors
- Political decision making and societal change are influenced by interactions between individuals, groups, and institutions.
- Developments in Canadian society can be viewed in many different ways depending on an individual's world-view or perspective.

## Social Studies 11

### 1 Semester

### 4 Graduation Credits

#### Strongly Recommend: Social Studies 10

Explorations in Social Studies 11 students leave the course with a well-rounded knowledge and mindset. Students will study a variety of different topics while looking at Human Geography, Social Issues, 20th Century History, Law Studies and B.C. First Peoples. Various platforms will be used including film, primary and secondary sources, and videos. One goal of Explorations in Social Studies 11 is to prepare students for senior Social Studies courses if they choose, as well as post-secondary programs where they need to be creative and independent thinkers who can articulate ideas, manage their time and be self-directed learners.

## Social Justice 12

### 1 Semester

### 4 Graduation Credits

Are you interested in learning Social Studies with a blend of activism? If so, take Social Justice 11/12! We will explore both historical and contemporary injustices in Canada and globally. You will be exposed to a wide variety of topics that will allow you to gain the critical thinking and research skills needed for post-secondary. We will explore changes and continuities, interconnections, and differing perspectives and worldviews. You will be exposed to a wide variety of content that will allow you to build a personal understanding of the global state of injustices and how we are currently dealing with these issues. Your learning will go beyond the classroom. The course encompasses locally developed learning resources, guest speakers, field studies, and volunteer/service-learning.

## BC First Peoples 12

### 1 Semester

### 4 Graduation Credits

#### Indigenous Studies: Yes

This course will focus on the varied identities and worldviews of Indigenous peoples, and the importance of the interconnection of family relationships, language, culture and the land. There will be a further exploration of factors that sustain and challenge the identities and worldviews of Indigenous peoples including building an understanding of colonial impacts and the resilience and survival of Indigenous peoples. Students will gain an understanding of the process and issues involved in the development of community partnerships and economic opportunities. This course further examines the responses to inequities in the relationships of indigenous peoples with governments in Canada and globally. Students will have the opportunity to develop an understanding of the Truth and Reconciliation process in Canada and around the world.

## Comparative Cultures 12

### 1 Semester

### 4 Graduation Credits

Take a journey through time and gain a deeper understanding of the world in which we live. Throughout this course, students will be challenged to critically examine the foundations, patterns, and legacies of key cultures and civilizations that are integral to the composition of our own. We will make connections between the past and the present by studying the origins of human history and the development of civilizations while also exploring contemporary issues. We will examine how cultures have evolved over time with a focus on the elements of culture and cultural expression, interactions and exchange between cultures and the natural environment, as well as systems of power, authority and governance and what role value and belief systems play in the development of culture. In addition to historical perspectives, students will also use geographical, archeological, and anthropological evidence to examine the evolution of culture over time and place. There will be a range of choices for students to pursue their interests related to the areas of study through research and inquiry projects.

## Human Geography 12

### 1 Semester

### 4 Graduation Credits

Human Geography is an exciting class that looks at the real world and focuses on the interactions between people, societies and the physical environment through time and across the globe. We'll look at different languages, religions, and ethnicities to see how they shape the various cultures across the planet. We will explore the diverse ways in which people affect the world around them and how they are affected by their surroundings, examining contemporary issues such as: poverty; sustainability; resource consumption; and climate change. We will see the relationship between human activities and their impact on the environment, the challenges the world faces with urbanization and the uneven access to health and food. In Human Geography, you will appreciate our shared responsibility as a citizen of an interconnected world in order to deal with the problems we face at local, regional, national and international levels.

## Criminology 12 (Does not meet the social studies graduation requirement)

### 1 Semester

### 4 Graduation Credits

**Criminology 12** asks the big questions: What is crime? Why do people commit it? And how do we learn about it? This engaging Humanities course explores crime through a Canadian lens, examining real criminal cases, crime theories, and patterns in who commits crime and who becomes a victim. Students investigate violent crime, organized crime, white-collar crime, and social crimes, while also analyzing how movies, TV shows, news, and true crime shape our views of justice. Expect serious topics, lively discussion and plenty of critical thinking as we uncover what crime reveals about society—and ourselves.

## Physical Geography 12

### 1 Semester

### 4 Graduation Credits

Did you ever watch one of those natural disaster movies like "Into the Storm" or "San Andreas" and wonder whether what happened in the movie was real? Physical Geography is an exciting physical and environmental studies humanities course that helps to try to answer those questions. In Physical Geography we get to look at the potential hazards and damages earthquakes and volcanoes cause to human populations. We look at severe weather and find out why hurricanes and tornadoes do so much damage to buildings and people's lives. We will get an idea as to why avalanches are so dangerous and see how this and other forms of "mass wasting" impacts where we live and what we do. We also look at rivers, oceans, glaciers, deserts and the impact that human beings have on the earth. We end the course by examining our future on the planet in order to see what we are doing and examine what steps we can make to live in a more sustainable way.

## 20<sup>th</sup> Century World History 12

### 1 Semester

### 4 Graduation Credits

History 12 examines major events of the 20th century. An emphasis on the West and its relation to world affairs is central to the course, with topics including: World Wars I and II, the Russian Revolution, the development and expansion of various ideologies, the Great Depression, the Cold War and others. Students are supported to learn about the connection between past events and the world in which they live. The content and themes explored are based on the "Big Ideas" of:

- Nationalist movements can unite people in common causes or lead to intense conflict between different groups.
- The rapid development and proliferation of technology in the 20th century led to profound social, economic, and political changes.
- The breakdown of long-standing empires created new economic and political systems

## Law Studies 12

### 1 Semester

### 4 Graduation Credits

Law 12 is an exciting senior humanities class that deals with the foundation, structure, and key principles and concepts of the Canadian legal system. Everything in the class revolves around the question "How does the law affect you as a Canadian citizen?" The goal of the class is to help you become a legally literate citizen...someone who is more likely to become an active, informed, and productive citizen and is better equipped to participate effectively in a democratic society and recognize what conduct is regulated by law. This "issues-based" course explores current legal and social problems that relate to criminal law, civil and human rights, private wrongs, conflict resolution, and family law.

## Genocide Studies 12

### 1 Semester

### 4 Graduation Credits

**Does history really repeat itself? Will we ever learn from our past actions and those of others?** Genocide, or the intentional destruction of peoples and their cultures, is not inevitable and such attempts can be disrupted and resisted. Despite international commitments to prohibit genocide, violence targeted against groups of people has continued to challenge global peace and prosperity. This course will examine the reasons for, local and global reaction to, and tangible actions we can take as a global community to end human atrocities. Additionally, the course will focus on the identification and categorization of genocides both past and present using theory like the 10 Stages of Genocide and Cultural Genocide. Students will explore various topics, which may include: the Holocaust, Yugoslavia, First Peoples in North America, Rwanda, Sudan, and the Khmer Rouge.

## Psychology 11 – Foundations of Psychology (Does not meet the social studies graduation requirement)

### 1 Semester

### 4 Graduation Credits

Psychology 11 is an engaging, eye-opening introduction to the world of human behavior and mental processes. Throughout the course, you'll dive into major perspectives in psychology, explore how the brain works, uncover how we learn and think, investigate how our senses shape our reality, and examine what drives our social interactions and development. You'll also get hands-on experience with research and ethical decision-making. Whether you're curious about people, thinking about a future in teaching, childcare, health care, social work, or counseling, or simply want to understand yourself and others better, Psychology 11 offers a fascinating journey into what makes us who we are.

## Psychology 12 – Applications of Psychology (Does not meet the social studies graduation requirement)

### 1 Semester

### 4 Graduation Credits

Psychology 12 takes you deeper into how psychology shapes your identity, relationships, and the world around you. You'll explore what drives your emotions and habits, see how psychology shows up in popular culture, and dive into the realities of mental health, including how disorders are understood and how different forms of therapy work. The course wraps up with a focus on building genuine well-being and practical skills for staying mentally healthy. While Psychology 11 is helpful prior to taking Psychology 12, Psychology 12 stands completely on its own and is perfect for anyone curious about people, passionate about helping others, or considering careers in teaching, health care, law enforcement, social work, or counseling.

## Political Studies 12

1 Semester

4 Graduation Credits

**What does Conservative or Liberal mean? How have the events of the past led us to where we are today? Why are certain people in charge?** Political Science 12 is an exciting and relevant course that challenges students with understanding political ideologies and applying these ideas to real-world examples and events. In this course, we will discuss and analyze important roles in politics and governance, assess local, national and international governments and institutions, explain differences in process and policy outcomes, make sense of the social movements of our times; and, acknowledge the importance of global political and economic changes in the 21st century. All the while, students will learn important skills in writing, speaking, debating and assessing aspects about politics, governments, nation states, political cultures, ideologies, social movements, the news media and more. If you are interested in the news, government, how decisions are made, and want to be more involved in these processes in the future, this course is a great place for you!

## OTHER OPPORTUNITIES

### Dungeons & Dragons 10 – An Introduction to Game Design and Tabletop RPGs

1 Term

2 Graduation Credits at the Grade 10 Level

This course introduces students to game theory, game design and narrative creation for gaming through the lens of the Dungeons & Dragons role-playing game. Students will learn the rules and mechanics of Dungeons & Dragons through collaborative design and play. Furthermore, students will learn how to create game worlds from the ground up and then populate them with characters to meet, problems to solve and quests to complete. This course is ideal for students wishing to pursue the design side of the gaming industry, creative writing or just learn how to better play the world's most popular tabletop role-playing game.

### Game Design with Dungeons and Dragons 5E

1 Semester

4 Graduation Credits

Game Design with Dungeons and Dragons 5E is an innovative and immersive course designed for students in grades 11-12. This semester-long program integrates the captivating world of Dungeons and Dragons with British Columbia core competencies, emphasizing communication, creative thinking, critical thinking, and social responsibility. Students will delve into the fundamentals of D&D, from character creation to storytelling and world-building, all while applying these concepts to develop their own unique campaign settings. The course also explores the art of Dungeon Mastering, honing skills in improvisation, adaptability, and effective storytelling. An exciting addition is the focus on game mechanics design, where students delve into core D&D mechanics, explore homebrew additions, and examine their impact on player engagement. The culmination of the course involves presenting and playtesting student-designed campaigns, providing a platform for showcasing creativity, collaboration, and mastery of game design principles.

### Board Games 10

1 Term

2 Graduation Credits at the Grade 10 Level

Unlock the world of strategic thinking, social interaction, and endless fun in Board Games 10! This engaging and interactive class is designed specifically for students who are eager to discover the exciting realm of board games beyond the screen. Throughout this course, participants will delve into a diverse selection of board games that not only entertain but also challenge the mind. From classic strategy games to modern tabletop gems, students will explore a variety of genres, enhancing their critical thinking, decision-making, and interpersonal skills.

## Library Assistant

### 1 Term/1 Semester

### 2/4 Graduation Credits

The goal of this TA position is to instill students with the independent, forward thinking and problem-solving work ethic that employers require. Students will learn basic library skills such as how to shelve and organize library materials, as well as create fiction and non-fiction displays. In addition, students are encouraged to use basic computer and technology tools, such as applications software, e-resources and digital media to complete tasks. Furthermore, students may be asked to read fiction and non-fiction resources and create reviews for their peers. Permission from the librarian is needed to take this course. Sign-up for this course must occur through a counsellor - maximum 1 student per block.

## Yearbook 10/11/12

### 1 Term/ Semester

### 2 Credits at the Grade 10 Level

### 4 Credits at the Grade 11/12 Level

Grade 11/12 students, strongly recommend prior experience in Yearbook 9 or 10 or a deep interest in producing our Vanier Yearbook.

Students taking Yearbook will need to provide leadership, initiative and a willingness to accept all tasks that lead to successful completion of our yearbook. This includes writing articles and taking photographs that tell the story of an event, club or team or documenting student life outside of class time. **Experience or a deep interest in photography, graphic design, and/or journalism is recommended.** Photography of school events is a mandatory requirement in this course. In addition, you will be involved in the design and layout of pages, proof-reading, image selection and editing. **Students on the Yearbook Team are expected to be self-motivated, confident, responsible, driven, and proactive.** The successful production of the yearbook relies heavily on your leadership in many areas.

## Foundations of Inquiry 10

### 1 Term

### 2 Graduation Credits at the Grade 10 Level

Have you always wanted to explore a new topic, improve a hobby or make a change to your lifestyle? Foundations of Inquiry is a course where students are able to, through the guidance of their teacher, direct their learning experience as it relates to their own interests, queries and passions. As active participants in the learning process, this inquiry course gives students the freedom to investigate direction of their learning which will help enhance their critical thinking skills while taking ownership of their learning process.

## Foundations of Human Services 11/12

### 1 Semester

### 4 Graduation Credits

Ever wondered what it takes to make a real difference in people's lives? This course dives into the world of care-focused careers (Health Care, Education, Mental Health, Allied Health) that are in high demand across Canada. You'll explore what makes you tick—your values, interests, and strengths—while looking at big-picture influences like technology, mental health, trauma-informed practices, and the changing needs of society. Through hands-on skill building, creative presentations, self-reflection, and community connections, you'll discover how personal wellness and ethical communication shape the human services field. By the end, you'll have a clear sense of the career paths available and how you can play a role in supporting others. If you're passionate about helping people and want to explore meaningful careers, this is your starting point!

## **Emergency Care 10**

**1 Term**

**2 Graduation Credits at the Grade 10 Level**

Empower yourself with the knowledge and skills to respond effectively in emergency situations. Emergency Care 10 is based on the St. John Ambulance Emergency First Aid course and is designed to provide participants with essential knowledge and skills to respond effectively to common medical emergencies. The course covers fundamental principles of first aid, enabling individuals to assess situations, prioritize care, and administer basic life-saving techniques. Students have the option to be certified with their Emergency First Aid with Level C CPR/AED ticket.

Key Topics Covered: Scene Safety and Initial Assessment, CPR, Choking Management, Wound Care and Bleeding Control, Fractures and Musculoskeletal Injuries, Burns and Thermal Injuries, Medical Emergencies, Allergic Reactions and Anaphylaxis, Poisoning and Overdose Response.