



## **W.J. MOUAT COURSE SELECTION GUIDEBOOK**

Following are descriptions of each of the courses offered at WJ Mouat. They are organized by department and grade. To navigate the document, you can use the links in the Table of Contents to move directly to a specific department. Courses are listed in order of grade level, but you are able to select courses outside your current grade. Read each description to see what courses you are eligible to choose.

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## APPLIED DESIGN, SKILLS, AND TECHNOLOGIES

\*This course does not meet the Applied Skills graduation requirement but earns 4 credits.

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## **GRADE 9**

### **Art Metal 9**

This ART-METAL course explores the artistic nature of metals. Aluminum, Copper and Silver will be used to make jewelry, stain glass, ornaments, and artifacts. Custom rings can be designed and cast in sterling silver. A variety of processes such as welding, blacksmithing, and casting will be used to create everything from sculptures to coffee tables. Students will explore metal as a medium of personal aesthetic expression, develop skills and technical competency in working with metal, be introduced to creative and technical experimentation, and begin to expand their awareness of historical and contemporary movements in metal.

### **Computer Arts 9**

Computer Arts 9 is a fun computer-based course where you will develop skills and produce original work in 2D graphics, animation, video, sound, and game design. Evaluation will consist primarily of completed projects and assignments. This is designed as a survey course to introduce you to all the Media Design courses offered here at WJ Mouat. Software includes Adobe Photoshop CC, Adobe Animate CC, and many Web 2.0 applications. If you are interested in art, media, film, animation, and video games, this is the course for you!

### **Computer Coding 9**

No computer knowledge is needed to have fun and succeed in this course! All classwork is completed on the computer. Minecraft – Explore and build worlds. Lego Mindstorms – Build and bring your own Lego robot to life and learn to code at the same time! App Inventor – Write mobile apps and games to install on your own phone. Code your own website with HTML. Create various Internet and Social Media projects. This course is essential for anyone wanting to increase their knowledge of computer and Internet technology.

### **Drafting 9**

Design your own cars, jets, houses, or jewelry, with the latest 3D Autodesk Inventor software. Take your models home after printing them in the 3D printer. This course will be an introductory course using the latest current industry standard 3D modeling software used by engineers, architects, and designers. The focus of this course will be creative problem solving and personal design.

### **Electronics and Robotics 9**

An introductory course that allows students to explore the areas of design, electronics, and robotics. Students will refine prototypes, learn how to code, and compete in design challenges. In this course students must produce solutions to the design challenges they are given. Students will explore electrical theory using parallel and series circuits, produce simple circuits from schematic drawings, use diagnostic and testing instruments, learn the function and use of hand tools, as well as the operation of stationary equipment. Students will also learn how to build a functional robot, use block-based coding or logic-based programming to control the robot's behavior.

### **Food Studies 9**

Foods & Nutrition 9 is an introductory course for students to develop an interest and enjoyment of food. Students will explore the basic principles of food preparation, cooking techniques and cooking processes. Students will gain exposure to various technologies and appliances used in the kitchen. In addition, students will learn to make informed eating choices in conjunction with the Canadian Food Guide. As a result, basic and practical skills are developed which will enable students to comfortably enjoy the more advanced food courses.

### **Metalwork 9**

Introductory course in metal work. Students will experience metal art, jewelry design, CNC plasma cutting, decorative metalwork and welding. Heavy emphasis will be placed on safe work practices and use of tools in

this introductory course. Students will work both individually and in teams through various workstations.

### **Student Leadership- Indigenous 9, Extended Day**

This course is separated into four sections: spirit, heart, body, and mind – this is symbolic of the teachings of the medicine wheel. Students will work on their own and collaborate with others on various projects. The class also contains opportunities for students to learn principles of effective leadership.

### **Textiles 9**

Develop clothing construction skills in this course while learning to create unique clothing yourself. Course projects will be determined by students in consultation with the teacher.

Note: Basic patterns, fabric and notions will be supplied. Most students will want to personalize the course.

### **Women in Trades 9**

This is an introductory course that will introduce female students to jewelry making, woodworking, metalwork, art metal, and computer-controlled machines (CNC). Being a project centered course, the students will make a variety of projects such as jewelry, candle holders, picture frames, yoyos, pens, bowls, goblets, jewelry boxes, stained glass, CNC made signs.

### **Woodwork 9**

This is an introductory woodworking course providing students with the opportunity to use the latest woodworking equipment and computer-controlled machines (CNC). Safe use of hand and power tools will be heavily emphasized. Being a project-centered course, students will make a variety of projects such as skateboards/longboards, candle holders, picture frames, yoyos, pens, bowls, cups, jewelry boxes, household furniture, gumball machines.

## **GRADE 10**

### **Art Metal & Jewelry 10**

This ART-METAL course explores the artistic nature of metals. Aluminum, copper and silver will be used to make jewelry, stained glass, ornaments, and artifacts. Custom rings can be designed and cast in sterling silver. A variety of processes such as welding, blacksmithing and casting will be used to create everything from sculptures to coffee tables. Students will explore metal as a medium of personal aesthetic expression, develop skills and a technical competency in working with metal, be introduced to creative and technical experimentation and begin to expand awareness of historical and contemporary movements in metal.

### **Drafting 10**

Open to all grade 10 students.

**Level 1:** Design your own cars, jets, houses, or jewelry, with the latest 3D Autodesk Inventor software. Take your models home after printing them in the 3D printer. The focus of this course will be creative problem solving and personal design.

**Level 2:** In this course we will build on skills learned in Level 1. While the focus of this course is individual design and interest, students will learn to formalize technical drawings. Learn the latest 3D Inventor software. There is a growing demand for students with skills in 3D modeling in the fields of Architecture, Engineering, Interior Design and Construction.

### **Electronics and Robotics 10**

An introductory course that allows students to explore the areas of design, electronics, and robotics. Students will refine prototypes, learn how to code, and compete in design challenges. In this course students must produce solutions to the design challenges they are given. Students will explore electrical theory using parallel and series circuits, produce simple circuits from schematic drawings, use diagnostic and testing instruments,

learn the function and use of hand tools, as well as the operation of stationary equipment. Students will also learn how to design a functional robot, use block-based coding or logic-based programming to control the robot's behavior.

### **Food Studies 10**

This course introduces Grade 10 students to more advanced techniques in food preparation, including baking, cooking, and beginner butchery. Students will refine their knife skills and recipe comprehension as they prepare a variety of savory and sweet foods, such as fresh pasta, perogies, tiramisu, and much more.

### **\*Yearbook and Journalism 10**

The course is designed for students to experience and learn aspects of print journalism and the digital production of our school newspaper, 'The Hawkzine'. Students are responsible for producing articles and photographs for the newspaper, as well as for the digital production of the layout.

This course will also produce the school's Yearbook. Students involved in the production will learn and will use technology for digital layout, graphic production, digital photography, word processing and editing. Students will work collaboratively to design, problem solve, and produce the various elements needed for the two main projects. No experience necessary!

**\*This course does not meet the Applied Skills grad requirement but earns 4 credits.**

### **Metalwork 10**

Introductory course in metal work. Students will experience metal art, jewelry design, CNC plasma cutting, decorative metalwork and welding. Heavy emphasis will be placed on safe work practices and use of tools in this introductory course. Students will work both individually and in teams through various workstations.

### **Power Technology 10**

Examines the diverse sources of power which include internal and external combustion engines. The disassembly, inspection, repair and successful reassembly of small two and four stroke engines will enable the student to gain proficiency with safe use of hand tools and with theory and operation. This will be expanded upon to include preventive maintenance and basic operational theory of the automobile. Students are expected to supply their own project work for credit in this course.

### **Trades Exploration 10**

The Trades Exploration course is an introduction to the trades and technology careers that students may be thinking of pursuing following high school completion. This course is to give students a taste of six different ITA-recognized trades:

- Carpentry
- Plumbing
- Electrical
- Cabinet Making
- Roofing
- Drywall

Participation in this course will prepare students for work experience and apprenticeship opportunities. The course will serve as a strong foundation for students considering Abbotsford School District's Youth Train in Trades programs. Other trades may be covered based on student interest.

### **\*Student Leadership- Indigenous 10, Extended Day**

This course is separated into four sections: spirit, heart, body, and mind – this is symbolic of the teachings of

the medicine wheel. Students will work on their own and collaborate with others on various projects. The class also contains opportunities for students to learn principles of effective leadership.

**\*This course does not meet the Applied Skills graduation requirement but earns 4 credits.**

### **Textiles 10**

Develop clothing construction skills in this course while learning to create unique clothing for yourself. Course projects will be determined by students in consultation with the teacher. Note: Basic patterns, fabric and notions will be supplied. Most students will want to personalize the course.

### **Woodwork 10**

Open to all grade 10 students. Woodwork 10 will provide students with the opportunity to use the latest woodworking equipment and Computer Controlled Machines (CNC). Safe use of hand and power tools will be heavily emphasized. Being a project centered course, students will make a variety of projects such as skateboards and longboards, candle holders, picture frames, yoyos, pens, bowls, cups, jewelry boxes, household furniture (side tables, coffee table, entertainment stand), and CNC design signs and projects.

### **Women in Trades 10**

This is an introductory course that will introduce female students to jewelry making, woodworking, metalwork, art metal, and computer-controlled machines (CNC). Being a project centered course, the students will make a variety of projects such as jewelry, candle holders, picture frames, yoyos, pens, bowls, goblets, jewelry boxes, stained glass, CNC made signs.

## **GRADE 11**

### **Automotive Technology 11 – Level 1**

Recommended: Gr. 11 or 12 student. Introductory course designed to enable students to achieve a good understanding of fundamental concepts of the automobile. You will learn the basics in car maintenance including oil changes, tune-ups, brakes, tires, exhaust, and computer diagnostic testing. Yes, you need to get a little dirty at times, but that's part of the process. Students are encouraged to work on their own vehicles when possible. We start with the basics in shop safety and tools and move up from there, so if you know absolutely nothing then you're at the right place.

### **Art Metal & Jewelry 11**

This ART-METAL course explores the artistic nature of metals. Aluminum, copper and silver will be used to make jewelry, stained glass, ornaments, and artifacts. Custom rings can be designed and cast in sterling silver. A variety of processes such as welding, blacksmithing and casting will be used to create everything from sculptures to coffee tables. Students will explore metal as a medium of personal aesthetic expression, develop skills and a technical competency in working with metal, be introduced to creative and technical experimentation and begin to expand awareness of historical and contemporary movements in metal.

### **Baking and Pastry 11**

This is an introductory course for students with no commercial baking or pastry art experience, skills, or knowledge. The focus of this course is for students to have the opportunity to gain supporting knowledge and practice fundamental skills in baking and pastry arts in a collaborative setting. Students will refine their recipe comprehension including scaling recipes, understand the function of ingredients and making substitutions. In addition, this course will allow students to develop and practice skills in cooking and butchery. Food safe Level 1 topics will be covered in class, and students will have the opportunity to gain Food safe Level 1 certification during the course.

## **Child Development and Caregiving 12**

An interactive two module course that will cover interpersonal relationships and child development. You will be given an opportunity to consider your future while focusing on personal development within relationships, independent living, commitment and marriage, family life, and living environments. This class provides many opportunities for discussion and interaction and incorporates 'real' life activities and experiences as much as possible. Taking care of a computerized baby for 2-3 days (and nights!) is a project in this course.

## **Drafting 11**

Open to all grade 11 & 12 students.

Level 1: Design your own cars, jets, houses, or jewelry, with the latest 3D Autodesk Inventor CAD software. This course will be an introductory course using the latest current industry standard 3D modeling software used by engineers, architects, and designers. The focus of this course will be creative problem solving and personal design.

Level 2 & 3: In this course we will build on skills learned in Level 1 & 2. While the focus of this course is individual design and interests, students will learn to formalize designs and technical drawings. Learn computer programs such as Inventor, Revit, or AutoCAD. Learn to take your computer designs and build them with CNC mills. Explore different software, tools, and materials used in computer manufacturing. This is an excellent course for those who are looking at careers in Engineering, Architecture or Construction Trades.

## **Food Studies 11**

This course is designed to further develop skills learned in Food Studies 9 and introduces Grade 10 -12 students to more advanced techniques in food preparation, planning, meal presentation and butchery. Students will also learn about food-borne illnesses, food choices and nutrition. A variety of foods will be prepared such as flour tortillas, crepes, French bread, soups, pizza, and much more.

## **Graphic Production 11 - Vinyl Graphics**

Introductory class. Students will learn about the industry of sign and graphic making using state-of-the-art technology vinyl cutters, laser engraver, large format printers and Signlab software. Learn how to make vinyl cut signs, vehicle graphics, banners, posters, and stickers. For students wanting to earn extra income there are employment opportunities and work experience available within the community and within the class.

## **Interior Design - Housing and Living Environments 12**

This course is open to all grade 11 and 12 students.

Recommended: Drafting level 1 and Art or permission from Mrs. Beck.

Explore Housing and Living Environments through focusing on Interior Design. The students will use 3D computer software Revit to design spaces for residential houses and commercial buildings. Discover how design is influenced by culture, social trends, and environmental issues. Explore how interior design, building methods and materials improve our living spaces. Learn to use Virtual Reality to walk through your designs and color board presentations. This course also provides scholarship and portfolio opportunities.

## **\*Yearbook and Journalism 11**

The course is designed for students to experience and learn aspects of print journalism and the digital production of our school newspaper, 'The Hawkzine'. Students are responsible for producing articles and photographs for the newspaper, as well as for the digital production of the layout.

This course will also produce the school's Yearbook. Students involved in the production will learn and will use technology for digital layout, graphic production, digital photography, word processing and editing. Students will work collaboratively to design, problem solve, and produce the various elements needed for the two main projects. No experience necessary!

**\*This course does not meet the Applied Skills grad requirement but earns 4 credits.**

### **Metalwork 11**

An introductory course in metal work. Students will experience sheet metal, CNC plasma cutting, decorative metalwork and welding. Heavy emphasis will be placed on safe work practices and use of tools in this introductory course. Students will work both individually and in teams through various workstations. Students will be introduced to the growing opportunities in employment in related fields.

### **\*Peer Tutoring 11**

Recommended: Gr. 11/12 students with an 80% average. Regular attendance, integrity, initiative, and punctuality are requirements. Counsellor permission required.

Peer tutors learn about individual academic, social, and cultural differences; study a variety of approaches and skills to assist their tutees' learning; practice self-assessment and reflection; develop communication, interpersonal relationship, leadership, and conflict management skills. Activities include creating lesson plans, teaching lessons, and analyzing learning styles. Tutors must be cooperative, enthusiastic, hardworking, and willing to learn new course content.

**\*This course does not meet the Applied Skills grad requirement but earns 4 credits.**

### **Trades Exploration 11**

The Trades Exploration course is an introduction to the trades and technology careers that students may be thinking of pursuing following high school completion. This course is to give students a taste of six different ITA-recognized trades:

- Carpentry
- Plumbing
- Electrical
- Cabinet Making
- Roofing
- Drywall

Participation in this course will prepare students for work experience and apprenticeship opportunities. The course will serve as a strong foundation for students considering Abbotsford School District's Youth Train in Trades programs. Other trades may be covered based on student interest.

### **\*Student Leadership 11, Extended Day**

This course allows students to take on a greater leadership role in the school and provides regular class time for performance of tasks associated with these roles. The class also contains opportunities for students to learn principles of effective leadership.

**\*This course does not meet the Applied Skills grad requirement but earns 4 credits.**

### **\*Student Leadership - Indigenous 11, Extended Day**

This course is separated into four sections: spirit, heart, body, and mind – this is symbolic of the teachings of the medicine wheel. Students will work on their own and collaborate with others on various projects. The class also contains opportunities for students to learn principles of effective leadership.

**\*This course does not meet the Applied Skills graduation requirement but earns 4 credits.**

### **Textiles 11**

Develop clothing construction skills in this course while learning to create unique clothing for yourself. Course projects will be determined by students in consultation with the teacher. Note: Basic patterns, fabric and notions will be supplied. Most students will want to personalize this course.

### **Woodwork 11**

This course is designed to meet the beginning and advanced woodworking student. This class will familiarize



and/or upgrade the student with the correct use and safe operation of power equipment and hand tools. Emphasis is placed on traditional cabinet/furniture making techniques augmented with current Computer Controlled Machine (CNC) technology production methods. Projects can include but are not limited to furniture (coffee tables, end tables, beds, entertainment stands), lathe turning (bowls, goblets and pens), skateboards and longboards, CNC machining of signs.

### **Women in Trades 11**

This introductory course is open to grade 11 and 12 students. The course will introduce female students to jewelry making, woodworking, art metal, automotive maintenance and computer-controlled machines (CNC). Being a project centered course, students will get to make a variety of projects such as candle holders, picture frames, yoyos, pens, bowls, goblets, jewelry boxes, stained glass, CNC made signs, vehicle oil change and basic maintenance.

## **GRADE 12**

### **\*ADST Assistant 12**

Recommended: Min. 73% average in Junior Level of Subject Area or Permission by subject instructor. This is a participatory course that prepares and motivates students to provide assistance to others in their schools and communities. Students will work under the supervision of the applied skills teacher or mentor to provide the assistance to students as individuals and / or small groups in a variety of learning activities and contexts. Students will provide assistance in various applied skills classes such as, Food Studies, Textiles Studies, Woodwork, Automotive, Vinyl Graphics, Drafting and Metalwork. Students will develop instructional skills, communication skills, interpersonal skills, leadership skills, teamwork, and conflict management. Students will apply their skills in tutoring and mentoring roles and acquire an appreciation of the importance of lifelong learning and helping others.

**\*This course does not meet the Applied Skills grad requirement but earns 4 credits.**

### **Art Metal & Jewelry 12**

This ART-METAL course explores the artistic nature of metals. Aluminum, copper and silver will be used to make jewelry, stained glass, ornaments, and artifacts. Custom rings can be designed and cast in sterling silver. A variety of processes such as welding, blacksmithing and casting will be used to create everything from sculptures to coffee tables. Students will explore metal as a medium of personal aesthetic expression, develop skills and a technical competency in working with metal, be introduced to creative and technical experimentation and begin to expand awareness of historical and contemporary movements in metal.

### **Automotive Engine & Drive Train 12 – Level 3**

Recommended: AT11, AT12 and with Teacher's permission.

Advanced level of automotive skills that emphasize engine repair and driveline servicing. Alternate fuels, performance tuning, custom suspensions are some of the topics covered. The school's involvement in motorsports with its dragster program will also be a part of the course. Students are expected to work independently and to undertake a major project during the semester. Because of the extensive practical work, ONLY students with a serious work ethic should apply.

### **Automotive Technology 12 – Level 2**

Recommended: AT11 and with Teacher's permission.

Intermediate level course for students wanting more automotive maintenance and repair skills. A quick review of tools and safety (in case you forgot) and then we're off to newer topics, like the starting and charging

systems. Students are again encouraged to work on their own vehicles when possible. We will start with the oil changes and maintenance inspections and then expand to more advanced servicing depending on individual desires and abilities. Because of the practical nature of this course considerable emphasis is placed on participation.

### **Baking and Pastry 12**

This is an introductory course for students with no commercial baking or pastry art experience, skills, or knowledge. The focus of this course is for students to have the opportunity to gain supporting knowledge and practice fundamental skills in baking and pastry arts in a collaborative setting. Students will refine their recipe comprehension including scaling recipes, understand the function of ingredients and making substitutions. In addition, this course will allow students to develop and practice skills in cooking and butchery. Foodsafe Level 1 topics will be covered in class, and students will have the opportunity to gain Foodsafe Level 1 certification during the course.

### **Child Development and Caregiving 12**

An interactive two module course that will cover interpersonal relationships and child development. You will be given an opportunity to consider your future while focusing on personal development within relationships, independent living, commitment and marriage, family life, and living environments. This class provides many opportunities for discussion and interaction and incorporates 'real' life activities and experiences as much as possible. Taking care of a computerized baby for 2-3 days (and nights!) is a project in this course.

### **Drafting 12**

Recommended: Drafting Level 1

Inquiry based exploration of Architecture, Engineering or Mechanical design. Students will be responsible for choosing and creating their own projects, using design software such as Inventor, Revit or AutoCAD. Discover how design is influenced by culture, social trends and environmental issues. Learn to use Virtual Reality to walk through your designs. This course also provides capstone, scholarship and portfolio opportunities.

### **Fashion Industry 12**

For the Grade 12 student who has completed Textiles 10-12 and would like to further explore fashion design and pattern development. Projects will be determined in consultation with the teacher, and may include a skirt, dress, grad dress, tailored jacket, or other garments. Most students will want to personalize the course.

### **Food Studies 12**

Begins by reviewing some cooking basics. After a brief re-introduction to the foundational skills of cooking, you will work through various units based on Healthy Living. You will learn how to make various breads, baked goods, healthy home cooked meals, how to follow a recipe and how to budget for a family.

### **Furniture and Cabinetry 12**

Recommended: teacher permission or completion of either grade 9, 10 or 11 Woodwork.

This course is open to all grade 12 students. This class will familiarize and/or upgrade the student with the correct use and safe operation of power equipment and hand tools. Emphasis is placed on traditional cabinet/furniture making techniques augmented with current computer-controlled machine technology (CNC) production methods. Projects can include furniture (coffee tables, end tables, beds, entertainment stands), lathe turning- bowls, goblets and pens skateboards and longboards, and CNC machining of signs. This course also provides scholarship and bursary opportunities.

### **Graphic Production 12 - Vinyl Graphics**

An introductory course. Students will learn about the industry of sign making using state of the art technology, including vinyl cutters, large format printers, sublimation printing, laser engraving and various others. Learn how to make vinyl cut signs, vehicle graphics, banners, posters and stickers. For students wanting to earn extra income there are employment opportunities and work experience available within the community and within the class. For students with experience, this course is moving students towards a Sign Association of Canada certification and professional level projects. Students can learn advanced vinyl cutting, large format printing, sublimation printing, heat transfer processes, and professional application techniques. Student lead projects

could involve personal interests such as vehicle wraps or community signage for local events.

### **Interior Design - Housing and Living Environments 12**

This course is open to all grade 11 and 12 students.

Recommended: Drafting level 1 and Art or permission from Mrs. Beck.

Explore Housing and Living Environments through focusing on Interior Design. The students will use 3D computer software Revit to design spaces for residential houses and commercial buildings. Discover how design is influenced by culture, social trends, and environmental issues. Explore how interior design, building methods and materials improve our living spaces. Learn to use Virtual Reality to walk through your designs and color board presentations. This course also provides scholarship and portfolio opportunities.

### **\*Yearbook and Journalism 12**

The course is designed for students to experience and learn aspects of print journalism and the digital production of our school newspaper, 'The Hawkzine'. Students are responsible for producing articles and photographs for the newspaper, as well as for the digital production of the layout.

This course will also produce the school's Yearbook. Students involved in Yearbook production will learn and will use technology for digital layout, graphic production, digital photography, word processing and editing. Students will work collaboratively to design, problem solve, and produce the various elements needed for the two main projects. No experience necessary!

**\*This course does not meet the Applied Skills grad requirement but earns 4 credits.**

### **Machining and Welding 12 – Metalwork 12**

Recommended: teacher permission or completion of either grade 9,10 or 11 Metal Work.

This is an intermediate course which will introduce students to arc and gas welding and molten aluminum casting. The course will also include traditional blacksmithing and modern metal fabrication. Heavy emphasis will be placed on safe work practices and proper setup of oxy-acetylene torches. Students will work both individually and in teams through the various workstations.

### **\*Peer Tutoring 12**

Recommended: Gr. 11/12 students with an 80% average. Counsellor permission required.

Regular attendance, integrity, initiative, and punctuality are requirements.

Peer tutors learn about individual academic, social, and cultural differences; study a variety of approaches and skills to assist their tutees' learning; practice self-assessment and reflection; develop communication, interpersonal relationships, leadership, and conflict management skills. Activities include lesson plans, teaching, and analyzing learning styles. Tutors must be cooperative, enthusiastic, hardworking, and willing to learn new course content. Course complements Peer Tutoring 11.

**\*This course does not meet the Applied Skills grad requirement but earns 4 credits.**

### **Trades Exploration 12**

The Trades Exploration course is an introduction to the trades and technology careers that students may be thinking of pursuing following high school completion. This course is to give students a taste of six different ITA-recognized trades:

- Carpentry
- Plumbing
- Electrical
- Cabinet Making
- Roofing
- Drywall

Participation in this course will prepare students for work experience and apprenticeship opportunities. The course will serve as a strong foundation for students considering Abbotsford School District's Youth Train in Trades programs. Other trades may be covered based on student interest.

**\*Student Leadership 12, Extended Day**

This course allows students to take on a greater leadership role in the school and provides regular class time for performance of tasks associated with these roles. The class also contains opportunities for students to learn principles of effective leadership.

**\*This course does not meet the Applied Skills grad requirement but earns 4 credits.**

**\*Student Leadership- Indigenous 12, Extended Day**

This course is separated into four sections: spirit, heart, body, and mind – this is symbolic of the teachings of the medicine wheel. Students will work on their own and collaborate with others on various projects. The class also contains opportunities for students to learn principles of effective leadership.

**\*This course does not meet the Applied Skills graduation requirement but earns 4 credits.**

**Textiles 12**

Expand your design and clothing construction skills in this course. Advanced construction and fitting techniques will be explored, while using commercial patterns. Note: Basic patterns, fabric and notions will be supplied. Most students will want to personalize the course.

**Women in Trades 12**

This is a trades exploratory course open to all grade 12 female students, whether they have taken a shop course or not. This is an excellent opportunity for girls who may find well-paid careers in trades and technology. Projects will include designing projects using both wood and metal. Students will gain experience and knowledge in the areas of computers in technology, project design, woodworking, metal art and jewelry, stained glass, car maintenance. safe operation and maintenance of tools.

**Woodwork 12**

Recommended: teacher permission or completion of either grade 9, 10 or 11 Woodwork.

An emphasis on more advanced cabinet making and wood joinery is studied in this course. This course enables students to create a wood-working project of their choice from start to finish. Students are encouraged to include the use of Computer Controlled Machines (CNC) to complete parts of their projects. Students will be expected to construct a project from a set of plans using a variety of joints, design and build a project with traditional as well as CNC machinery estimate materials lists, evaluate their own workmanship. Projects may include furniture (desks, coffee tables, coat racks, cedar chests, grandfather clocks etc.). This course also provides scholarship and bursary opportunities.

## FINE ARTS EDUCATION

GRADE 9	GRADE 10	GRADE 11	GRADE 12
Art 9	Art 10	Art 11	Art 12
Art Metal 9	Art Metal & Jewelry 10	Art Metal & Jewelry 11	Art Metal & Jewelry 12
Drama 9	Ceramics and Sculpture 10 (3D Studio Art)	Ceramics and Sculpture 11 (3D Studio Art)	Ceramics and Sculpture 12 (3D Studio Art)
Musical Theatre 9	Digital Photography 11	Digital Photography 11	Digital Photography 12
	Drama 10	Drama 11	Directing and Script Development 12
	Drawing and Painting 10 (2D Studio Art)	Drawing and Painting 11 (2D Studio Art)	Drama 12
	Musical Theatre 10	Musical Theatre 11	Drawing and Painting 12 (2D Studio Art)
	Photography 10	Photography 11 (Dark Room)	Musical Theatre 12
	Studio Arts 10 – Extended Day	Studio Arts 11 – Extended Day	Photography 12 (Dark Room)
	TV and Film 11	TV and Film 11	Studio Arts 12– Extended Day
			TV and Film 12

## MUSIC

GRADE 9	GRADE 10	GRADE 11	GRADE 12
Instrumental Music (Band) 9 /	Instrumental Music (Band) 10	Instrumental Music (Band) 11	Instrumental Music (Band) 12
Instrumental Music (Jazz Band) 9, Extended Day	Instrumental Music (Jazz Band) 10, Extended Day	Instrumental Music (Jazz Band) 11, Extended Day	Instrumental Music (Jazz Band) 12, Extended Day
Choral Music (Choir) 9, Extended Day	Music Composition and Production 10	Music Composition and Production 11	Music Composition and Production 12
	Choral Music (Choir) 10, Extended Day	Choral Music (Choir) 11, Extended Day	Choral Music (Choir) 12, Extended Day

## **GRADE 9**

### **Art 9**

This is a course where students will draw, paint, and sculpt. There will be a focus on learning and practicing foundational art skills. We will also be exploring identity through making a variety of types of art. This course provides opportunities to learn about art perspectives and experiences from a variety of times, places, and cultures. In this course there will be a focus on building community.

### **Art Metal 9**

This ART-METAL course explores the artistic nature of metals. Aluminum, Copper, and Silver will be used to make jewelry, stain glass, ornaments, and artifacts. Custom rings can be designed and cast in sterling silver. A variety of processes such as welding, blacksmithing and casting will be used to create everything from sculptures to coffee tables. Students will explore metal as a medium of personal aesthetic expression, develop skills and a technical competency in working with metal, be introduced to creative and technical experimentation and begin to expand awareness of historical and contemporary movements in metal.

### **Drama 9**

This is a developmental drama program. We don't just DO plays. Major areas of development include story-building, mime, character development and improvisation. In-class emphasis will be placed on teamwork and concentration. The overall goal of the program is to give the student self-confidence to make presentations in class and to transfer this to onstage and stage experiences. Be prepared to have fun and work as a team.

### **Musical Theatre 9**

A performing arts course that blends the disciplines of drama, music, and dance. Students will have the opportunity to explore, prepare, rehearse, and present songs and scenes from well-known musicals in class. Previous experience in drama, music and/or dance is not required, but is recommended.

## **MUSIC**

## **GRADE 9**

### **Instrumental Music (Band) 9 / English 9 (Linear course)**

This unique course allows students to participate in Band 9 for two semesters and complete the English 9 requirement over both semesters (linear course). Band 9 is a performance-based instrumental music class focused on increasing your musical development, instrumental skills, and musical appreciation. You can expect to work on improving your instrumental technique and fluency, artistic expression, ensemble performance skills, and musical literacy while playing fun and challenging music. There are also many opportunities for performances at concerts and festivals as well as trips to various locations. Attendance at all performances is mandatory.

### **Instrumental Music (Jazz Band) 9, Extended Day**

Jazz Band 9 is an instrumental class that focuses on learning, performing, and understanding the performance practices of Big Band Jazz music. This is an extended day class for which the student receives extra credit. Attendance at all extended day rehearsals and performances is mandatory. It is recommended that you also enroll in Band 9.

### **Choral Music: (Choir) 9, Extended Day**

Attendance at all extended day rehearsals and performances is mandatory.

Choir 9 is a vocal music class open to anyone wishing to sing. No previous singing experience is required. This performance-based class helps students to further their understanding of the vocal mechanism and techniques required to sing with a powerful and captivating sound while singing and performing music in a variety of styles.

## **GRADE 10**

### **Art 10**

This course introduces students to a variety of art forms. In this course traditions, perspectives, worldviews, and stories are shared through aesthetic experiences. This course will focus on how growth as an artist requires time, patience, and reflection. Through making and viewing art we will explore our identity and sense of belonging.

### **Art Metal & Jewelry 10**

This ART-METAL course explores the artistic nature of metals. Aluminum, copper and silver will be used to make jewelry, stained glass, ornaments, and artifacts. Custom rings can be designed and cast in sterling silver. A variety of processes such as welding, blacksmithing and casting will be used to create everything from sculptures to coffee tables. Students will explore metal as a medium of personal aesthetic expression, develop skills and a technical competency in working with metal, be introduced to creative and technical experimentation and begin to expand awareness of historical and contemporary movements in metal.

### **Ceramics and Sculpture 10 (3D Studio Art)**

In this course students will be introduced to a variety of 3D media. Through the study of sculpting, traditions, perspectives, worldviews, and stories will be shared. This course will focus on how growth as an artist requires time, patience, and reflection as well as relying on the interplay of mind and body. Ceramics and Sculpture 10 offers unique ways of exploring our identity and sense of belonging.

### **Digital Photography 11**

#### **\*This course is open to grade 10's**

In this introductory course students will take original digital photographs and learn to digitally manipulate them. Artwork created in this course will reflect the interconnectedness of the individual, community, history, and society. This course will focus on how growth as a graphic artist is dependent on perseverance, resilience, and reflection. Students will be encouraged to view and create artistic works which offer unique aesthetic experiences in a variety of contexts.

### **Drama 10**

The second of the introductory drama courses. Building on skills learned in Drama 9, but still open to those new to the stage. Improvisation and creative drama are important part of the course. Basic Scene creation, character development, and script writing are all covered in Drama 10. Students will learn the basics of each and will create group projects in each discipline. The ability to work effectively and cooperatively in a group is a must. Effort is more important than talent.

### **Drawing and Painting 10 (2D Studio Art)**

This is an introductory course. Students will explore and create, using two-dimensional art forms such as painting and drawing. This course will focus on how growth as an artist requires time, patience, and reflection. We will explore how the creation of artistic works relies on the interplay of body and mind as well as offering unique ways of exploring our identity and sense of belonging.

### **Musical Theatre 10**

A performing arts course that blends the disciplines of drama, music, and dance. Students will have the opportunity to explore, prepare, rehearse, and present songs and scenes from well-known musicals in class.

Previous experience in drama, music and/or dance is not required, but is recommended.

### **Photography 10 (Dark Room)**

This is an introductory darkroom photography course. Photography is a unique art form that captures images for artistic expression. In this course traditions, perspectives, worldviews, and stories are shared through the aesthetic experience of photography. This course will focus on how growth as a photographer requires time, patience, and reflection.

### **Studio Arts 10 – Extended Day**

Does not take the place of a regular Art class.

This course has been designed for students who have a passion and talent for Art & design. It is an extended day class which takes place after school on Monday and Tuesday from 2:30-4:00 for the duration of the school year. Students will be mainly painting in an open studio environment. Assignments are thematic and students must be motivated self-starters.

### **TV and Film 11**

Open to grade 10 students

Who doesn't like making, watching, and talking about Film and Television? TV and Film 11 is an introduction to the video camera and video production. Students will learn the basics of camera operation as well as simple editing techniques. There will be a variety of projects to complete in a group format including different genres of film like spoofs, animation, and music videos. The importance of preproduction and planning will be stressed. Must have the ability to work effectively in a team.

## **MUSIC**

### **GRADE 10**

#### **Instrumental Music (Band) 10**

Attendance at all performances is mandatory.

Band 10 is a performance-based instrumental music class focused on increasing your musical development, instrumental skills, and musical appreciation. You can expect to work on improving your instrumental technique and fluency, artistic expression, ensemble performance skills, and musical literacy while playing fun and challenging music. There are also many opportunities for performances at concerts and festivals as well as trips to various locations.

#### **Instrumental Music (Jazz Band) 10, Extended Day**

It is recommended that you also enroll in Band 10. Attendance at all extended day rehearsals and performances is mandatory. Jazz Band 10 is an instrumental class that focuses on learning, performing, and understanding the performance practices of Big Band Jazz music.

#### **Music Composition and Production 11**

Students will learn the basis of different compositional techniques across multiple genres. This course will give students foundations of staff notation and music theory, chord progressions, lyric-writing, and essential instrument techniques. Previous experience reading music and playing instruments is very helpful but not required. This course is open to grade 10, 11, and 12 students.



## **Choral Music (Choir) 10, Extended Day**

Attendance at all extended day rehearsals and performances is mandatory.

Choir 10 is a vocal music class open to anyone wishing to sing. No previous singing experience is required. This performance-based class helps students to further their understanding of the vocal mechanism and techniques required to sing with a powerful and captivating sound while singing and performing music in a variety of styles.

# **GRADE 11**

## **Art 11**

Through painting, drawing, print making, and sculpting students will learn how an artist's intention transforms materials into art. This visual arts course will explore the interconnectedness of the individual, community, history, and society. It will focus on how growth as an artist is dependent on perseverance, resilience, refinement, and reflection. Students will be encouraged to view and create artistic works which offer unique aesthetic experiences in a variety of contexts.

## **Art Metal & Jewelry 11**

This ART-METAL course explores the artistic nature of metals. Aluminum, copper and silver will be used to make jewelry, stained glass, ornaments, and artifacts. Custom rings can be designed and cast in sterling silver. A variety of processes such as welding, blacksmithing and casting will be used to create everything from sculptures to coffee tables. Students will explore metal as a medium of personal aesthetic expression, develop skills and a technical competency in working with metal, be introduced to creative and technical experimentation and begin to expand awareness of historical and contemporary movements in metal.

## **Ceramics and Sculpture 11 (3D Studio Art 11)**

In this course students will develop skills to create a variety of 3D sculptures. This course will focus on how growth as an artist is dependent on perseverance, resilience, and reflection. Ceramics and Sculpture 11 offers unique ways of exploring our identity and sense of belonging.

## **Digital Photography 11**

In this introductory course students will take original digital photographs and learn to digitally manipulate them. Artwork created in this course will reflect the interconnectedness of the individual, community, history, and society. This course will focus on how growth as a graphic artist is dependent on perseverance, resilience, and reflection. Students will be encouraged to view and create artistic works which offer unique aesthetic experiences in a variety of contexts.

## **Drama 11**

Drama 10 an asset, but not required

A transition course in which a deeper focus on the art of acting is examined. Character building, advanced storytelling, and script analysis are a major focus. Equal focus will be on creating your own work and presenting scripts of others. Be prepared to work hard, be reliable and take risks.

## **Drawing and Painting 11 (2D Studio Art)**

Students will explore and create using two-dimensional art forms such as painting and drawing. This course will focus on how growth as an artist requires time, patience, and reflection. We will explore how the creation of artistic works relies on the interplay of body and mind as well as offering unique ways of exploring our identity and sense of belonging.

## **Musical Theatre 11**

A performing arts course that blends the disciplines of drama, music and dance. Students will have the opportunity to explore, prepare, rehearse, and present songs and scenes from well-known musicals in class. Previous experience in drama, music and/or dance is not required, but is recommended.

### **Photography 11 (Dark Room)**

This is an introductory darkroom photography course. Photography is a unique art form that captures images for artistic expression. In this course, traditions, perspectives, worldviews, and stories are shared through the aesthetic experience of photography. This course will focus on how growth as a photographer requires time, patience, and reflection. Students will develop their photographic expression as a physical and mental understanding of our humanity.

### **Studio Arts 11 – Extended Day**

Does not take the place of a regular Art class.

This course has been designed for students who have a passion and talent for Art & design. It is an extended day class which takes place after school on Monday and Tuesday from 2:30-4:00 for the duration of the school year. Students will be painting in an open studio environment. Assignments are thematic and students must be motivated self-starters.

### **TV and Film 11**

Who doesn't like making, watching, and talking about Film and Television? TV and Film 11 is an introduction to the video camera and video production. Students will learn the basics of camera operation as well as simple editing techniques. There will be a variety of projects to complete in a group format including different genres of film like spoofs, animation, and music videos. The importance of preproduction and planning will be stressed. Must have the ability to work effectively in a team.

## **MUSIC**

### **GRADE 11**

#### **Instrumental Music (Band) 11**

Attendance at all performances is mandatory.

Band 11 is a performance-based instrumental music class focused on increasing your musical development, instrumental skills, and musical appreciation. You can expect to work on improving your instrumental technique and fluency, artistic expression, ensemble performance skills, and musical literacy while playing fun and challenging music. There are also many opportunities for performances at concerts and festivals as well as trips to various locations.

#### **Instrumental Music (Jazz Band) 11, Extended Day**

Attendance at all extended day rehearsals and performances is mandatory.

It is recommended that you also enroll in Band 11. Jazz Band 11 is an instrumental class that focuses on learning, performing, and understanding the performance practices of Big Band Jazz music.

#### **Music Composition and Production 11**

Students will learn the basis of different compositional techniques across multiple genres. This course will give students foundations of staff notation and music theory, chord progressions, lyric-writing, and essential instrument techniques. Previous experience reading music and playing instruments is very helpful but not required. This course is open to grade 10, 11, and 12 students.

#### **Choral Music (Choir) 11, Extended Day**

Attendance at all extended day rehearsals and performances is mandatory.

Choir 11 is a vocal music class open to anyone wishing to sing. No previous singing experience is required. This performance-based class helps students to further their understanding of the vocal mechanism and techniques required to sing with a powerful and captivating sound while singing and performing music in a variety of styles.

## **GRADE 12**

### **Art 12**

In this course students will make art with personal identity and culture in mind. Students will learn about past and present art forms. There will be a focus on student growth through skill and portfolio development. Students will be taught how purposeful artistic choices enhance the depth and meaning of artistic work. Students will learn how aesthetic experiences have the power to transform our perspective.

### **Art Metal & Jewelry 12**

This ART-METAL course explores the artistic nature of metals. Aluminum, copper and silver will be used to make jewelry, stained glass, ornaments, and artifacts. Custom rings can be designed and cast in sterling silver. A variety of processes such as welding, blacksmithing and casting will be used to create everything from sculptures to coffee tables. Students will explore metal as a medium of personal aesthetic expression, develop skills and a technical competency in working with metal, be introduced to creative and technical experimentation and begin to expand awareness of historical and contemporary movements in metal.

### **Ceramics and Sculpture 12 (3D Studio Art 12)**

In this course students will refine skills while creating a variety of 3D sculptures. This course will focus on how growth as an artist is dependent on perseverance, resilience, and reflection. Ceramics and Sculpture 12 offers unique ways of exploring our identity and sense of belonging. Students will be expected to produce a portfolio of work to demonstrate their growth.

### **Digital Photography 12**

In this course students will take original digital photographs and learn to digitally manipulate them. Artwork created in this course will reflect the interconnectedness of the individual, community, history, and society. This course will focus on how growth as a graphic artist is dependent on perseverance, resilience, and reflection. Students will be expected to produce a portfolio of work to demonstrate their growth.

### **Directing and Script Development 12**

Permission from Mr. Billo required.

Have an idea for a play or a movie? This course walks you through the steps from the formation of an idea to the creation of a polished final product. Pitching ideas, writing scripts, and directing actors; this course covers it all. Theatre or Film based- it is your choice. This class is run as an individual course and requires independent work.

### **Drama 12**

Drama 11 strongly recommended. Only those students who have shown a keen interest in the subject will be accepted. Performance in front of an audience is part of the course. Getting deeper into risk taking and trusting your instincts is what is needed to succeed in Drama 12. Challenging scene work and improvisations in the beginning will be followed by the audition process and monologues. Script analysis and performance is a focus throughout. Good attendance is integral to success.

### **Drawing and Painting 12 (2D Studio Art 12)**

Students will refine and expand on artistic skills and knowledge to create two-dimensional art forms such as painting and drawing. This course will focus on how growth as an artist requires time, patience, and reflection. Students will be expected to produce a portfolio of work to demonstrate their growth.

## **Musical Theatre 12**

A performing arts course that blends the disciplines of drama, music, and dance. Students will have the opportunity to explore, prepare, rehearse, and present songs and scenes from well-known musicals in class. Previous experience in drama, music and/or dance is not required, but is recommended.

## **Photography 12 (Dark Room)**

This is a darkroom and digital photography course. Photography is a unique art form that captures images for artistic expression. This course will focus on how growth in photographic expression requires perseverance, resilience and risk taking. Students will get the opportunity to take, and hand develop film and photographs. Students will be expected to produce a portfolio of work to demonstrate their growth.

## **Studio Arts 12 – Extended Day**

Does not take the place of a regular Art class.

This course has been designed for students who have a passion and talent for Art & design. It is an extended day class which takes place after school on Monday and Tuesday from 2:30-4:00 for the duration of the school year. Students will be painting in an open studio environment. Assignments are thematic and students must be motivated self-starters.

## **TV and Film 12**

The skills learned in TV and Film 11 will be built upon to create more advanced and complex videos. An exploratory course in which students have much say in the projects they wish to explore in a variety of forms which may include documentaries, musicals, and anything else in the TV and Film world. Students will be expected to put in time beyond scheduled class time.

# **MUSIC**

## **GRADE 12**

### **Instrumental Music (Band) 12**

Attendance at all performances is mandatory.

Band 12 is a performance-based instrumental music class focused on increasing your musical development, instrumental skills, and musical appreciation. You can expect to work on improving your instrumental technique and fluency, artistic expression, ensemble performance skills, and musical literacy while playing fun and challenging music. There are also many opportunities for performances at concerts and festivals as well as trips to various locations.

### **Instrumental Music (Jazz Band) 12, Extended Day**

Attendance at all extended day rehearsals and performances is mandatory.

It is recommended that you also enroll in Band 12. Jazz Band 12 is an instrumental class that focuses on learning, performing, and understanding the performance practices of Big Band Jazz music.

### **Music Composition and Production 11**

Students will learn the basis of different compositional techniques across multiple genres. This course will give students foundations of staff notation and music theory, chord progressions, lyric-writing, and essential instrument techniques. Previous experience reading music and playing instruments is very helpful but not required. This course is open to grade 10, 11, and 12 students.

## **Choral Music (Choir) 12, Extended day**

Attendance at all extended day rehearsals and performances is mandatory.

Choir 12 is a vocal music class open to anyone wishing to sing. No previous singing experience is required. This performance-based class helps students to further their understanding of the vocal mechanism and techniques required to sing with a powerful and captivating sound while singing and performing music in a variety of styles.

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## **BUSINESS AND COMPUTER TECHNOLOGY**

<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
Computer Arts 9	Accounting 11	Accounting 11	Business
Computer Coding 9	Computer Programming 11	Business Computer Applications 12 (online)	Computer Applications 12 (online)
Entrepreneurship & Marketing 10	Entrepreneurship & Marketing 10	Computer Programming 11	Computer Programming 12
	Media Design 10	Marketing & Promotions 11	Economics 12 (online)
		Media Design 11	Entrepreneurship 12
			Financial Accounting 12
			Media Design 12

## **GRADE 9**

### **Computer Arts 9**

Computer Arts 9 is a fun computer-based course where you will develop skills and produce original work in 2D graphics, animation, video, sound, and game design. Evaluation will consist primarily of completed projects and assignments. This is designed as a survey course to introduce you to all the Media Design courses offered here at WJ Mouat. Software includes: Adobe Photoshop CC, Adobe Animate CC, Microsoft 3D Paint and Landscape Art. If you are interested in art, media, film, animation, and video games, this is the course for you!

### **Computer Coding 9**

No computer knowledge is needed to have fun and succeed in this course! All classwork is completed on the computer. Minecraft – Explore and build worlds. Lego Mindstorms - Build and bring your own Lego robot to life and learn to code at the same time! App Inventor – Write mobile apps and games to install on your own phone. Code your own website with HTML. Create various Internet and Social Media projects. This course is essential for anyone wanting to increase their knowledge of computer and Internet technology.

## **Entrepreneurship & Marketing 10**

Are you interested in business? Do you want to run your own business one day? If your answer is yes, this is the course for you! We learn about entrepreneurs, who they are, how they get started and how they market their ideas to you and me! Various projects are used to reinforce learning - including creating a marketing campaign with commercials, online ads & a company website! This course is essential for any student wanting to increase their knowledge of the business world!

## **GRADE 10**

### **Accounting 11**

Accounting 11 will introduce you to the fundamentals of a double entry accounting system. Accounting is a job skill; therefore, there will be considerable emphasis on performing to standards acceptable in the workplace. The program Simply Accounting, the Titan Business Simulation and the Monopoly board game will be used to reinforce the accounting concepts taught.

### **Computer Programming 11**

Open to grade 10s.

Programming is a fundamental skill in this digital age! If you are a cellphone, YouTube, Netflix, or Facebook user, learn to understand the logic behind them. Develop problem solving skills and analytical abilities while learning how to: write in binary; code in Python, Java and JavaScript; and develop 2D games and simple algorithms. This course includes units on game design in Unity as well as Roblox Studio.

## **Entrepreneurship & Marketing 10**

Open to grade 9s

Are you interested in business? Do you want to run your own business one day? If your answer is yes, this is the course for you! We learn about entrepreneurs, who they are, how they get started and how they market their ideas to you and me! Various projects are used to reinforce learning - including creating a marketing campaign with commercials, online ads & a company website! This course is essential for any student wanting to increase their knowledge of the business world!

### **Media Design 10**

No computer knowledge is needed to have fun and succeed in this course! All classwork is completed on the computer. Create fun cartoons with 2D Animation. Design and play role-playing video games with Gamemaker. Edit your own game avatars with Photoshop. Record and edit movies and sound with MIDO and Wav programs. This course is essential for anyone wanting to increase their knowledge of computer and Internet technology. This course is essential for anyone who enjoys or plans a career in graphic design.

## **GRADE 11**

### **Accounting 11**

Accounting 11 will introduce you to the fundamentals of a double entry accounting system. Accounting is a job skill; therefore, there will be considerable emphasis on performing to standards acceptable in the workplace. The program Simply Accounting, the Titan Business Simulation and the Monopoly board game will be used to reinforce the accounting concepts taught.

## **Business Computer Applications 12**

**\*This is an online course.**

The business world runs on Microsoft Office – Word and Excel – Learn the software that will give you the edge in your next job search or your chosen career. Gain proven technical skills employers look for in today's innovation economy. Practice real-world experience in office procedures. You will learn to accurately format your research papers with table of contents, page numbering, and references. Enhance your learning with Corporation Inc. Office simulation game. No prior computer experience is needed to enjoy and succeed in this course.

## **Computer Programming 11**

Open to grade 10s

Programming is a fundamental skill in this digital age! If you are a cellphone, YouTube, Netflix, or Facebook user, learn to understand the logic behind them. This is an exciting, growing, challenging field that has an impact on most aspects of everyday life. Develop problem solving skills and analytical abilities while learning how to: write in binary; code in Java and JavaScript; and develop 2D games and simple algorithms. Expand your Programming experience by working with and building Lego Mindstorm Robots!

## **Marketing & Promotions 11**

Are you interested in learning what businesses do to grab your attention? Are you considering taking business courses or starting your own business? Do you want to know how to persuade someone to buy your product? Or are you interested in a fun interactive course about advertising that will teach you the tricks and strategies used to get you to go shopping? Learn to decipher advertisements and the psychological strategies used to motivate you to shop. Join this course and discover the world of promotions and how companies inspire customers so they can make money.

## **Media Design 11**

Media Design 11 is where creativity meets technology. If you love art, storytelling, gaming, or social media, this course lets you turn ideas into eye-catching visuals. You'll learn 2D and 3D animation, from motion graphics to animated characters, and explore graphic design for posters, logos, and digital content. Create print and online graphics using industry-style tools while building real-world skills. No experience needed—just curiosity and a willingness to create and have fun. Perfect for future designers, animators, filmmakers, content creators, and innovators.

# **GRADE 12**

## **Business Computer Applications 12**

**\*This is an online course.**

The business world runs on Microsoft Office – Word and Excel – Learn the software that will give you the edge in your next job search or your chosen career. Gain proven technical skills employers look for in today's innovation economy. Practice real-world experience in office procedures. You will learn to accurately format your research papers with table of contents, page numbering, and references. Enhance your learning with Corporation Inc. Office simulation game. No prior computer experience is needed to enjoy and succeed in this course!

## **Computer Programming 12**

Deepen your understanding of code and learn Python and C++ as well as Java and JavaScript. Java is emphasized as most post-secondary introductory level programming courses include Java. Advanced topics are covered, such as: Methods, Inheritance, Arrays, Recursion, GUIs. Create and post your own online calculator on a live website! There is no prerequisite for this course.

**Media Design 12**

If you love art, storytelling, gaming, or social media, this course lets you turn ideas into eye-catching visuals. You'll learn 2D and 3D animation, from motion graphics to animated characters, and explore graphic design for posters, logos, and digital content. Create print and online graphics using industry-style tools while building real-world skills. No experience needed—just curiosity and a willingness to create and have fun. Perfect for future designers, animators, filmmakers, content creators, and innovators. For those who have taken Media Design 11, this course will build on your technical and creative skill development.

**Economics 12**

**\*This is an online course.**

What is money? What is pricing? Learn how economics affects your daily life and the global community. Discover why some countries are rich and others are poor and who makes those decisions. Topics will include Government Policies, Price controls, Supply and Demand, Poverty, Taxation, The Canadian and Global economy, and current business news and trends.  
NEW\*\*Economics 12 is accepted as an approved grade 12 course at **most** universities.

**Entrepreneurship 12**

Learn how to run your own business! In Entrepreneurship 12 you will have the opportunity to create a business venture and the opportunity to carry out that venture! Topics in the course include the skills necessary to become an entrepreneur, how to acquire those skills and how to implement them in a business situation. You will also learn how to manage a stock portfolio and run an online version.

**Financial Accounting 12**

A minimum of 67% in PREC11 or FOM11 is recommended.  
This course is designed as an introduction to financial accounting concepts for those planning to pursue post-secondary studies in accounting, finance, business management or commerce. It covers basic accounting concepts for both financial and managerial accounting and will give you a good head start on accounting courses at the college or university level.



**CAREER EDUCATION**

GRADE 9	GRADE 10	GRADE 11	GRADE 12
	Career and Life Education 10		Career Life Connections 12  Work Experience 12/CLC 12

**Career Education 9 (Students will complete course requirements within their core courses)**

In Career Education 9, students will develop the knowledge, skills, and attitudes to assist them in making informed decisions as they plan future education and career paths. They will explore the concepts of professionalism and goal setting and will be introduced to key elements of workplace safety. Students will have the opportunity to discover their skills, interests, motivations, personality and learning styles which they



can use to begin researching potential career and education paths. Finally, they will document their personal growth and celebrate their learning through a process of self-reflection.

### **Career Life Education 10**

The Career Education Curriculum supports students in the process of becoming successful, educated citizens by providing them with opportunities to explore a variety of careers and options for the future. Three of the content areas covered will be: Personal Development, Connections to Community and a Career Life Plan.

### **Career Life Connections 12**

This course will focus on career development and the successful transition out of high school. Topics will include Personal Career Life Development, Connections with Community, and Career Life Planning.

### **Work Experience 12A** (this course takes up 2 blocks)

This course must be taken with CLC 12 to allow for a half day work placement off campus.

Students will have the opportunity to explore their career interests through 100 hours of school-arranged volunteer work experience, typically without missing time from their other classes. Whether the student has identified his/her career interests or is still unsure which career path to pursue, this course will help all students develop basic employability skills and work toward making more informed choices about their future.

### **District Programs (See Mr. Jason Skelton for more details)**

Architectural Drafting (Grade 12)  
Automotive Service Technician (Grade 12)  
Aviation Ground School (Grade 11/12)  
Carpentry (Grade 12)  
Cybersecurity (Grade 11/12)  
Early Childhood Education (Grade 11/12)  
Electrical (Grade 12)  
Hairstylist (Grade 11/12)  
Heavy Equipment Operator (Grade 12)  
Horticulture (Grade 12)  
Professional Cook (Grade 11/12)  
Welding Foundation (Grade 12)

**Regional Career Programs (RCP)** Trades training foundations programs with VERY limited seats. **(See Mr. Jason Skelton for details)**

#### **Offered at UFV:**

Automotive Collision Repair and Refinishing  
Heavy Duty Mechanic  
Joinery  
Plumbing and Piping

#### **Offered at KPU (Kwantlen Polytechnic University):**

Arborist Technician  
Landscape Horticulture  
Masonry  
Metal Fabrication  
Millwright/ Industrial Mechanic  
Parts and Warehousing  
Plumbing and Piping

### Youth Work in Trades (WRK) (16 credits)

Youth Work in Trades provides skill development through practical, hands-on work experience. Students enrolled in these courses go to work and attend high school at the same time. That means they have found an employer who is willing to take them on (and pay them) as an apprentice. Students that are 15 or older can enroll in this program. They must also formally register with the Industry Training Authority as Youth Apprentices. Successful completion of the program earns students 16 credits towards graduation. Some may also qualify for the Youth Work in Trades (WRK) Scholarship, a \$1000 scholarship given to students with 900+ hours of work and a C+ average in their grade 12 year. If you are a high school student already working as an apprentice, speak to Mr. Skelton about signing up for this program.

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## ENGLISH LANGUAGE ARTS

GRADE 9	GRADE 10	GRADE 11	GRADE 12	ELL – ALL GRADES
English 9	English First Peoples 10	English 11-Composition English 11-Creative Writing English First Peoples 11 English 11-Literary Studies English 11-New Media Connect 11 (Interdisciplinary Studies-2 Blocks)	English Studies 12 English First Peoples 12 Connect 12 (Interdisciplinary Studies -2 Blocks) <b>Electives:</b> *English 12-Creative Writing (does not satisfy Eng. 12 grad requirement)	Academic Language Acquisition English 10 ELL (Language Enriched) English Language Learner (ELL)

## GRADE 9

### English 9

Focuses on developing a strong base of reading, listening, viewing, writing, speaking, and representing skills. Students are encouraged to develop critical thinking skills as well as an increasing appreciation of literature.

## GRADE 10

### English First Peoples 10 (EFP Literary Studies 10 and EFP Writing 10)

EFP Literary Studies and Writing 10 focuses on developing a strong base for reading, listening, viewing, writing and speaking skills through studying First Peoples literature in a variety of contexts, genres and media. This course provides students with the opportunities to explore personal and cultural identities, to read and

understand oral and traditional stories, to learn about the lived realities of First Nations people, and to appreciate and understand the significance of place in literature. Students are encouraged to share insights gained from reading and discussion, to develop critical thinking skills, to understand different human values, to hone their writing ability, and to gain increasing appreciation of literature in a variety of forms.

## **GRADE 11**

The Grade 11 suite of English Language Arts classes is designed to meet a variety of student interests and strengths. Reading, listening, viewing, writing, speaking, and representing are included in all options; however, each course is unique in its area of emphasis, choice of texts, and types of activities. **All options equally fulfill the Ministry of Education Grade 11 ELA requirements.** Students must choose one of the following:

### **English 11 - Composition**

Students will study, create, and write original and authentic pieces for a range of purposes and real-world audiences, with an emphasis on drafting, reflecting on, and revising their work. They will read and study compositions by other writers in a variety of styles as models for their own writing. Take this course if you like to express opinions, ideas, and arguments in writing, you want to learn how to critique and revise your own work, or you want to improve your academic writing skills.

### **English 11 - Creative Writing**

Students will express themselves creatively as they develop confidence in and refine their writing skills for various creative purposes. They will explore personal and cultural identities, memories, and stories in a range of genres as they collaborate and apply writing processes. Take this course if you enjoy writing creatively or would like to develop this talent, you want to express yourself through poetry, stories, novels, etc., or you like examining other writers' work as models and inspiration.

### **English First Peoples 11 (Literary Studies and Writing 11)**

This course is an option for all students to fulfill their English 11 requirement, as well as the Indigenous-focused coursework graduation requirement. Students delve deeply into First Peoples oral and written literature in a range of media/text to explore various themes, authors and topics. This provides a foundation for them to think critically and creatively as they continue to explore, extend and strengthen their own writing and communication skills.

### **English 11 - Literary Studies**

This engaging survey course introduces students to English literature from every era alongside important historical events which impacted the authors' works. Students will delve into literature by exploring specific themes, period authors, and areas of the world through literary works in a variety of genres and media. They are given a choice of literary texts and topics to explore, allowing them to follow their interests and passions. Take this course if you are interested in the "classics", enjoy reading, like learning about how authors' lives affect their writing, or have a passion for a particular genre, author, or theme in literature.

### **English 11 - New Media**

Students will develop skills for success in an increasingly complex digital world. With an emphasis on digital literacy and digital citizenship, students will explore the changing role of technology in today's society and the increasing importance of digital media in communicating and exchanging ideas. Take this course if you are interested in creating vs. consuming digital content, you want to explore and critique digital media sources and their impact on society, or you want to communicate professionally and effectively in the digital realm.

### **Connect 11: Interdisciplinary Indigenous Cohort (2 blocks)**

A cross-curricular cohort that earns grade 11 credits in English, Science and Active Living (3 courses in 2

blocks). This cohort, open to ALL Grade 11 students, both Indigenous and non-Indigenous, meets each day in two back-to-back blocks. This will fulfill graduation requirements for Indigenous-focused coursework, English 11, Science 11, and an Active Living course. All 3 subject areas will be explored through an Indigenous lens, with some overlapping (cross-curricular) lessons and assignments.

This cohort earns credits for:

**English First Peoples Literature and Writing 11** (English 11 Requirement) - **4 credits**

**Life Sciences 11 – 4 credits**

**Active Living – 4 credits**

## **GRADE 12**

**\*Students must take one of English Studies 12 or English First Peoples 12 to satisfy Ministry graduation requirements.**

### **English Studies 12**

English Studies 12 builds on and extends students' previous learning experiences in ELA 10 and 11 courses. It is designed for all students. Students will have opportunity to refine their ability to communicate effectively, think critically and creatively, explore a variety of texts, deepen their understanding of themselves and the world, explore factors that shape identity, represent themselves through text, understand First Peoples' perspectives, and grow as educated Canadian and global citizens.

### **English First Peoples 12**

English First Peoples 12 explores the voices, perspectives, and cultural expressions of Indigenous peoples through literature, media, and storytelling. Students will analyze works by Indigenous authors, including novels, poetry, and oral traditions, while reflecting on themes like identity, community, and the impact of colonization. By developing critical thinking and communication skills, students will gain a deeper appreciation for the richness and resilience of First Peoples' cultures.

### **Connect 12: Interdisciplinary Indigenous Studies Cohort (2 blocks)**

A cross-curricular cohort opportunity that earns Grade 12 graduation requirements in English, Social Studies, and Careers (3 courses in only 2 blocks!) This cohort, open to ALL Grade 12 students, both Indigenous and non-Indigenous, meets each day in two back-to-back blocks to facilitate off-campus opportunities. CONNECT uses the First Peoples Principles of Learning to focus on the experiences, values, beliefs, and lived realities of First Peoples as evidenced in various forms of text such as song, film, prose, IG, Twitter, blogs, novels, and more. Students will be supported in their pursuit of learning through projects and seminars guided by their own curiosity and interest. This cohort earns you credit for:

**BC First Peoples 12** (Social Studies Requirement) **4 credits**

**Contemporary Indigenous Studies 12** (English 12 Requirement) **4 credits**

**Career Life Connections 12** (Grad requirement) **4 credits**

## **English Language Arts Electives:**

**(Students must still take English Studies 12 or English First Peoples 12 to satisfy Ministry graduation requirements.)**

### **English 12 - Creative Writing**

This relaxed course allows students to develop and refine the skills involved in expressing themselves through original, creative writing in a variety of forms and styles. Students work independently and collaboratively and have regular opportunities to share and review their work in a supportive environment. Genres of writing may include poetry, short-fiction, journalism, screenwriting, or others determined by the interests of the students.

Students are encouraged to enter writing contests and submit their work for publication.

## **English Language Learners:**

### **Academic Language Acquisition**

This 4-credit course focuses on building academic vocabulary and understanding the language features related to the six genres of writing: discussion text, recount text, narrative text, explanatory text, procedural text, and report text. With equal emphasis on reading, writing and oral language, thematic units are chosen to reflect a Canadian perspective. The teaching of grammar is integrated throughout all units. Intended for levels 2 and 3 English Language Learners, this course is designed to equip students with the academic language skills needed to be successful in academic courses.

### **English 10 ELL (Language Enriched)**

This course follows the same curriculum as English 10, but with an increased focus on vocabulary and building context to make content more comprehensible for English Language Learners. The main focus areas are Literary Studies and Composition. Course enrollment upon ELL teacher recommendation.

### **English Language Acquisition**

In this 4-credit course, students learn through thematic units which are designed to develop reading, writing and oral language skills. Through these units of study, a communicative approach is used to build students' confidence while they engage in meaningful and authentic language activities focused on real-life situations. Intended for levels 2 and 3 English Language Learners who want to increase their basic communication skills.

**\*ELL Support Classes** – Language acquisition and communication skills are taught through a variety of themes. Time is also given to scaffold and support learning in academic courses. This is a non-graded, non-credit course where the emphasis is on individual learning. (\*This course is not part of the course-selection options. Beginning level students are enrolled on the recommendation of ELL teachers.)

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## **FRENCH IMMERSION**

<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
Éducation physique et santé 9 Français langue 9 Mathématiques 9 Sciences humaines 9	Éducation au choix de carrière et de vie Français langue 10 Sciences humaines 10	Études du cinéma et de la littérature francophones 11  Histoire du monde au XXe siècle 12	Français langue 12 FCLC 12

## **GRADE 9**

### **Éducation physique et santé 9**

Follows the same curriculum as the English track. See Physical Health and Education 9 description. This

course is co-ed.

### **Français langue 9**

Recommended: BYOD Continuation of FRAL 8 for immersion students.

Students are expected to demonstrate a working knowledge in their written competency of the present, imparfait, passé composé and plus-que-parfait tenses. In FRAL9, the grammar content will also focus on agreement of past tenses, hypothetical sentences, pronouns used as direct and indirect object complements, and verb moods and tenses associated with the genres being studied. Also, poetic devices will be introduced. The FOUR skills (listening, speaking, reading and writing) continue to be developed.

### **Mathématiques 9**

This French Immersion course follows the same curriculum as the English track. See description for Math 9.

### **Sciences humaines 9**

This French Immersion course follows the same curriculum as the English track. See description for Social Studies 9.

## **GRADE 10**

### **Éducation au choix de carrière et de vie. BYOD**

This course supports students in the process of becoming successful, educated citizens by providing them with opportunities to explore a variety of careers and options for the future. The course will help students to discover a bridge between classroom learning and workplace and post –secondary realities and is intended to make their learning meaningful and relevant. Three of the content areas covered will be: Personal Development, Connections to Community and a Career Life Plan.

### **Français langue 10**

Recommended: BYOD

Continuation of FRAL9 for immersion students. While constantly reviewing FRAL9 grammar concepts and verb tenses, the focus of the grammar component will be concepts such as possessive and demonstrative pronouns, passive and active voice. Also, poetic devices will be emphasized. The FOUR skills (listening, speaking, reading and writing) continue to be developed.

### **Sciences humaines 10**

This French Immersion course follows the same curriculum as the English track. See description for Social Studies 10.

## **GRADE 11**

### **Études du cinéma et de la littérature francophones 11**

French-Language Film and Literary Studies. The film component of the course will enable students to discover cinematographic works from different eras, cultures, styles, and genres. In addition, students will develop their ability to analyze, interpret, and reflect in order to better appreciate cinematographic works from the French-speaking world. They will explore their imagination and develop their creativity, writing style, and spoken communication through multiple cinematographic genres. Through the literature component, students will discover a variety of literary texts and works from different eras, cultures, styles, and genres.

### **Histoire du monde au XXe siècle 12**

See English description of 20<sup>th</sup> Century World History 12

## GRADE 12

### Français langue 12 (4 credits)

The objective of this course is to help students to integrate and enhance the linguistic competencies and linguistic and cultural knowledge acquired during past learning experiences. French Immersion 12 will enable students to gain an overview of the various factors that shape their bilingual identity. It offers many opportunities for students to deepen their knowledge of themselves and others in a changing world. The course will encourage students to use critical and creative thinking to analyze various communication situations.

### Liens avec la vie personnelle et professionnelle 12 (FCLC 12)

This French Immersion course follows the same curriculum as the English track. See description for CLC 12.

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## LANGUAGES

GRADE 9	GRADE 10	GRADE 11	GRADE 12
French 9	French 10	French 11	French 12
Introductory Spanish 11	Introductory Spanish 11	Introductory Spanish 11	Introductory Spanish 11
	Spanish 11	Spanish 11	Spanish 11

## GRADE 9

### French 9

No prerequisites required.

French 9 focuses on the purposeful language to perform real-life tasks, share ideas and acquire information. The program covers the four main skills of language: reading, speaking, writing and listening. Students will also learn about Francophone culture from around the world.

### Introductory Spanish 11

No prerequisites required.

Introduction to Spanish 11 is designed for students with little to no prior knowledge of Spanish. Students will develop foundational skills in pronunciation, vocabulary, sentence structure, and essential grammar, while learning practical expressions for everyday communication. Alongside language development, students will explore cultural practices, traditions, and perspectives across diverse Hispanic regions.

This course emphasizes real-world application and cultural engagement, offering opportunities to connect with local Spanish-speaking communities and partake in enriching cultural events, activities and authentic learning experiences. As students acquire the language, they will also strengthen critical thinking, communication skills and global perspectives.

## GRADE 10

### French 10

Recommended: French 9

In French 10, students will continue to progress in all areas of French reading, writing, speaking, and listening competencies. Students will participate in a variety of partner and group activities that will allow them to become more comfortable using the language. Students will have opportunities to interact with Francophone culture throughout the course.

### **Introductory Spanish 11**

No prerequisites required.

Introduction to Spanish 11 is designed for students with little to no prior knowledge of Spanish. Students will develop foundational skills in pronunciation, vocabulary, sentence structure, and essential grammar, while learning practical expressions for everyday communication. Alongside language development, students will explore cultural practices, traditions, and perspectives across diverse Hispanic regions.

This course emphasizes real-world application and cultural engagement, offering opportunities to connect with local Spanish-speaking communities and partake in enriching cultural events, activities and authentic learning experiences. As students acquire the language, they will also strengthen critical thinking, communication skills and global perspectives.

### **Spanish 11**

Prerequisites: Completion of Introduction to Spanish 11 or equivalent prior knowledge. Students with previous experience may request an interview with the Spanish teacher to determine appropriate placement.

Spanish 11 builds on skills developed in Introduction to Spanish 11, with continues focus on expanding vocabulary and improving communication in both oral and written forms. Students will work on high-frequency language, idiomatic expressions and increasingly complex structures to support fluency in real-world contexts. The course integrates authentic cultural content from Hispanic communities locally and around the world, with opportunities for students to engage in cultural events and experiential learning. Emphasis is placed on practical language use, cultural understanding, and developing confidence in communicating with diverse Spanish - speaking communities.

## **GRADE 11**

### **French 11**

Recommended: French 10

In French 11, students will expand their abilities in areas of reading, writing, speaking and listening, especially by learning new verb tenses, grammatical structures and vocabulary that will allow them to express themselves in greater depth. Throughout the course, students will have opportunities to engage with Francophone culture. Students who successfully complete this course will have met the second language requirement for entrance to a B.C. university.

### **Introductory Spanish 11**

This introductory course is intended for students with no background in Spanish. Students will learn Spanish letter patterns, gender and number, common vocabulary, sentence structures, and expressions, as well as cultural practices, traditions, and attitudes in various Hispanic regions. While acquiring this new language, students will develop competencies in thinking and communication in addition to personal and social awareness. This course will prepare students with the skills and knowledge required for Spanish 11.

### **Spanish 11**

Building on skills acquired in Intro Spanish 11, students will continue to expand their vocabulary in oral and written communication. The focus will be on high frequency vocabulary and idiomatic expressions with a strong Hispanic cultural component both locally and worldwide. Spanish 11 will meet the second language requirement



for entrance to BC universities.

## GRADE 12

### French 12

Recommended: French 11

French 12 is a course which allows students to further develop their ability to use and understand the French language in all its forms. Students will have the opportunity to improve their fluency and proficiency in French. Students will use their French to participate in activities relevant to their graduating year, such as participating in the DELF exam. Throughout this course, students will have the opportunity to engage with Francophone culture. Graduating French 12 students have the possibility of entering second year French courses in their future chosen university or college.

### Introductory Spanish 11

This introductory course is intended for students with no background in Spanish. Students will learn Spanish letter patterns, gender and number, common vocabulary, sentence structures, and expressions, as well as cultural practices, traditions, and attitudes in various Hispanic regions. While acquiring this new language, students will develop competencies in thinking and communication in addition to personal and social awareness. This course will prepare students with the skills and knowledge required for Spanish 11.

### Spanish 11

Building on skills acquired in Intro Spanish 11, students will continue to expand their vocabulary in oral and written communication. The focus will be on high frequency vocabulary and idiomatic expressions with a strong Hispanic cultural component both locally and worldwide. Spanish 11 will meet the second language requirement for entrance to BC universities.



## MATHEMATICS

GRADE 9	GRADE 10	GRADE 11	GRADE 12
Mathematics 9	Workplace Mathematics 10  Foundations of Mathematics & Pre-Calculus 10	Workplace Mathematics 11  Foundations of Mathematics 11 Pre-Calculus 11	Foundations of Math 12 Pre-Calculus Math 12 Calculus 12

## GRADE 9

### Mathematics 9

Our math 9 program is completed without the use of calculators. We concentrate on developing mental math strategies and dedicate time in each class to practice fundamental math facts, such as addition, subtraction, multiplication, and division, to enhance numeracy skills. The course includes numeracy, exponents, operations with polynomials, operations with rational numbers, two-variable linear relations, multistep linear equations, spatial reasoning, and financial literacy. Students will need a solid background from Math 8 and good work habits. This course prepares students for the grade 10 Foundations & Pre-Calculus Math option.

## GRADE 10

### Workplace Mathematics 10 (see flow chart)

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force. Topics include algebra, geometry, measurement, trigonometry and finances.

### Foundations of Mathematics & Pre-Calculus 10 (see flow chart)

Recommended: Foundations of Math 9 with C+

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies. Topics include algebra, measurement, relations, functions and trigonometry.

## GRADE 11

### Workplace Mathematics 11 (see flow chart)

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force. Topics include Measurement, Geometry, Finances, Algebra and Statistics. It is each student's responsibility to investigate the requirements of any post-secondary program they may wish to pursue prior to selecting their pathway.

### Foundations of Mathematics 11 (see flow chart)

Recommended: Foundations of Math and Pre-Calculus 10

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. It is recommended that students purchase a graphing calculator. Graphing calculators will be provided to students but for in-class use only. It is each student's responsibility to investigate the requirements of any post-secondary program they may wish to pursue prior to selecting their pathway.

### Pre-Calculus 11 (see flow chart)

Recommended: Foundations of Math and Pre-Calculus 10 with 60% minimum.

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies that require students to take a math class (Calculus). It is recommended that students purchase a graphing calculator. Graphing calculators will be provided to students but for in-class use only. It is each student's responsibility to investigate the requirements of any post-secondary program they may wish to pursue prior to selecting their pathway.

## GRADE 12

**Foundations of Math 12 (see flow chart)**

Recommended: C+ in FOM11.

This is an academic course. Topics covered in this course include Finance, Logic, Statistics and Probability, Relations and Functions. Requires a Graphing Calculator. You will need your own calculator for in-class work and homework.

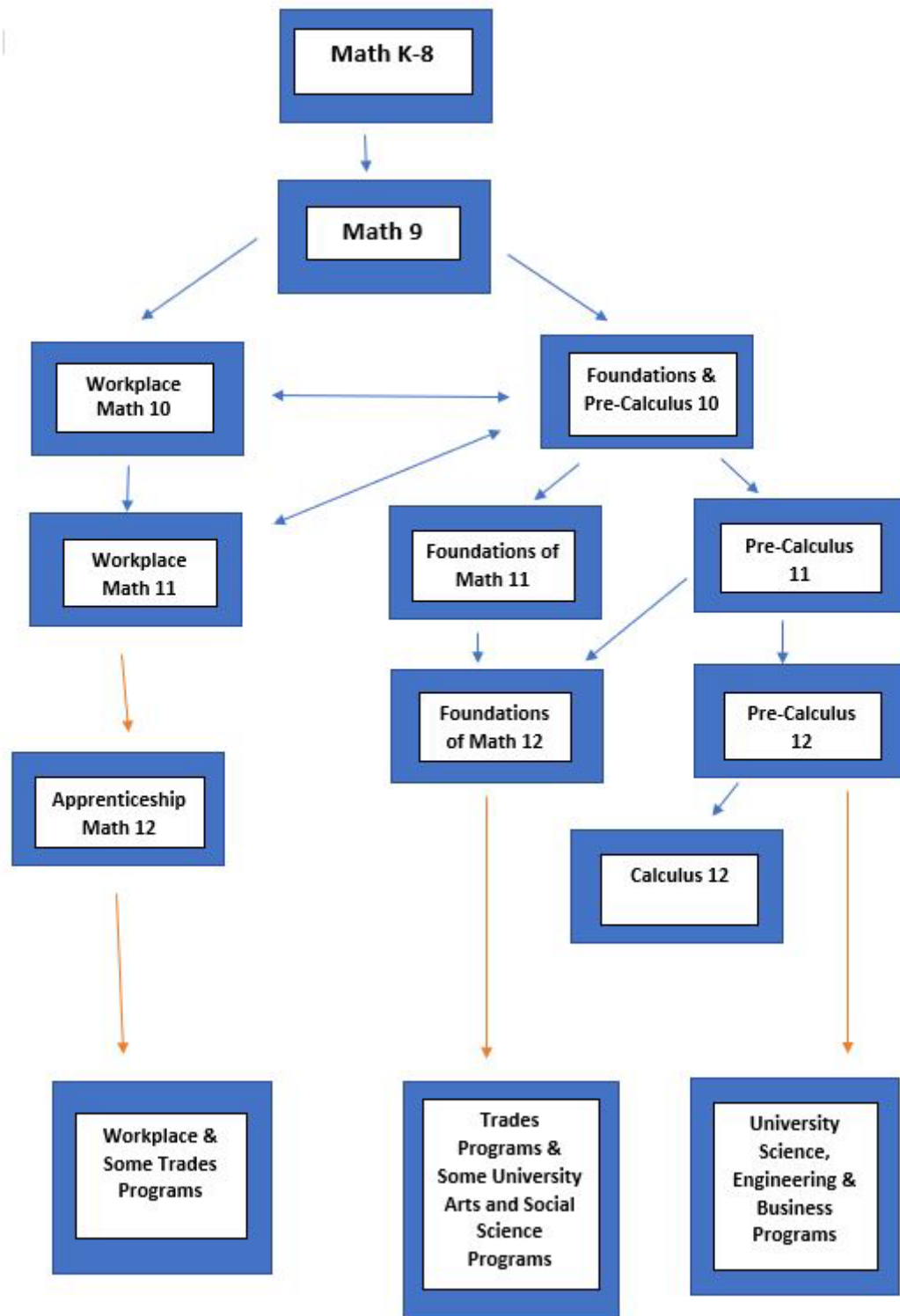
**Pre-Calculus Math 12 (see flow chart)**

Recommended: PREC 11 with 65%

This is an academic course. Designed for students who have an interest in mathematics, or who have career aspirations in the fields of engineering, mathematics, the sciences, economics, and some business programs. The main purpose is to develop the skills needed to continue with the study of calculus. This course relies heavily on topics covered in previous grades. It is strongly suggested that students with less than 60-65% in Pre-Calculus Math 11 discuss their course selection carefully with their teacher. Success is often a combination of good prerequisite skills along with good attendance and strong work habits.

**Calculus 12 (see flow chart)**

Recommended: Pre-Calculus Math 11 with 70% and enrolled in Pre-Calculus Math 12. This course is intended to provide students with an introduction to calculus while they are still in high school so that they are better prepared for calculus in college and university. Content will include units on differentiation and integration and applications of each. Students who plan to register for a university or college math course are strongly recommended to take this course.



## PHYSICAL AND HEALTH EDUCATION

GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>Required:</b> Physical and Health Education 9 (Male or Female) <b>or:</b> Outdoor Education 9 (co-ed) <b>French Immersion:</b> Physical and Health Education 9 <b>Extended Day:</b> PE Leadership 9-12	<b>Required:</b> Physical and Health Education 10 (Male or Female) <b>or:</b> Outdoor Education 10 (co-ed) <b>Elective:</b> Fitness & Conditioning 10 Female Fitness & Conditioning 10 Co-ed course Sport Specialized PE 10- Basketball Sport Specialized PE 10- Football Sport Specialized PE 10- Rugby Sport Specialized PE 10- Soccer Sport Specialized PE 10- Volleyball <b>Extended Day:</b> Extreme Outdoor Education 10 Fitness and Conditioning 10 (Sports Performance) PE Leadership 9-12	<b>Elective:</b> Active Living 11 Outdoor Education 11 Fitness & Conditioning 11 Co-ed course Fitness & Conditioning 11 Female Sport Medicine 11 Sport Specialized PE 11- Basketball Sport Specialized PE 11- Football Sport Specialized PE 11- Rugby Sport Specialized PE 11- Soccer Sport Specialized PE 11- Volleyball <b>Extended Day:</b> Extreme Outdoor Education 11 Fitness and Conditioning 11 (Sports Performance) PE Leadership 9-12	<b>Elective:</b> Active Living 12 Outdoor Education 12 Fitness & Conditioning 12 Co-ed course Fitness & Conditioning 12 Female Sport Specialized PE 12- Basketball Sport Specialized PE 12- Football Sport Specialized PE 12- Rugby Sport Specialized PE 12- Soccer Sport Specialized PE 12- Volleyball <b>Extended Day:</b> Extreme Outdoor Education 12 Fitness and Conditioning 12 (Sports Performance) PE Leadership 9-12

## GRADE 9

### REQUIRED:

**Physical and Health Education 9 (Male or Female)**

Students can only sign up for either this course **or** Physical Health and Education/Outdoor Education 9. Students will participate in a variety of leisure, fitness, sport, and lifestyle activities depending on the instructor and the facility schedule. Depending on scheduling and grade level, students will participate in the following activities: learning to run (run/walk program), volleyball, aerobics, softball, minor games, basketball, touch football, badminton, soccer, dance (folk, square, swing, hip-hop), weightlifting, first aid, handball, swimming, wrestling, skating, ultimate, and lacrosse. Students will also study various health topics and learn training principles through participation in this course. A fitness evaluation will take place each term.

**OR:**

**Physical and Health Education 9 /Outdoor Education 9**

Students can only sign up for either this course **or** Physical Health and Education 9. This co-ed course provides students with PHE 9 credit while supplementing the traditional curriculum by giving students a chance to experience leisure and adventure activities in the community. Typical leisure day activities include swimming, skating, bowling, mini golfing, batting cages, golf driving range, curling, tennis, and many more. In addition, students will be given the opportunity to go on many full day adventure outings offered as curricular enhancements through the Outdoor Education program. This course is a combination of in class and outside the class activities. Students are responsible for expenses associated with the outside the class activities chosen by them.

**French Immersion:****Physical and Health Education 9**

Follows the same curriculum as the English track. See Physical Health and Education 9 description. This course is co-ed.

**EXTENDED DAY:****PE Leadership 9-12**

Full Year Linear Course. Enrollment by instructor approval. The grade 9-12 students in this course will work in teams to plan, promote, and run a variety of health and fitness related activities within the school. These activities include the intramural activity program which runs during the lunch break, as well as special events such as the Mouat Mudder obstacle course, and Mental Health Awareness Week. Leadership students will also support our extracurricular sports teams by participating in activities such as score keeping, refereeing, or helping run various sporting events and tournaments. As an extended day course this class will meet weekly at lunch time.

**GRADE 10****REQUIRED:****Physical and Health Education 10 (Male or Female)**

Only this course **or** Physical Health and Education/Outdoor Education 10 meets the PHE 10 credits required for graduation.

Students will participate in a variety of leisure, fitness, sport and lifestyle activities depending on the instructor and the facility schedule. Depending on scheduling and grade level, students will participate in the following activities: learning to run (run/walk program), volleyball, aerobics, softball, minor games, basketball, touch football, badminton, soccer, dance (folk, square, swing, hip-hop), weightlifting, first aid, handball, swimming, wrestling, skating, ultimate, and lacrosse. Students will also study various health topics and learn training principles through participation in this course. A fitness evaluation will take place each term.

**OR:**

## **Outdoor Education 10**

Students can only sign up for this course OR Physical Health and Education 10. This course provides students with PHE 10 credits while supplementing the traditional curriculum by giving students a chance to experience leisure and adventure activities in the community. Typical leisure day activities include swimming, skating, bowling, mini golfing, batting cages, golf driving range, curling, tennis, and many more. In addition, students will be given the opportunity to go on many full day adventure outings offered as curricular enhancements through the Outdoor Education program. There is no course fee for this class, however all expenses associated with the adventure and leisure enhancement opportunities will need to be covered by the student.

## **ELECTIVE:**

### **Fitness & Conditioning 10 Female**

**\*This course does not satisfy the PHE/OE 10 grad requirement.**

A great course for those that want to get their workouts in at school and learn to be their own trainer. You will set and pursue your fitness goals and will be able to write your own fitness program by the end of the course. The course focuses on strength training principles, sports nutrition, cardiovascular training and improving flexibility. This course incorporates a 3 day a week personalized strength training program, as well as core training and cardiovascular training. Assessment and evaluation is based on daily performance in class, weight training, logbooks and quizzes on training principles.

### **Fitness & Conditioning 10 Co-ed**

**\*This course does not satisfy the PHE/OE 10 grad requirement.**

Want to work out but cannot find the time, or afford a gym membership fee? Resistance/Weight training, speed, and agility training, plyometrics, flexibility, cardiovascular training, and sports nutrition are all aspects of fitness focused on in this course. If you want to be in the best possible shape and perform better than you ever have before, this is the course for you. Course evaluation will be based on daily performance in class, monthly physical testing, weight training logbooks, and quizzes.

### **Sport Specialized PE 10 - Basketball**

This course is designed for students whose primary point of access to being a life-long learners in health and fitness is the sport of basketball. This course is open to any student who has a love of basketball regardless of whether you play at school, in the community or are a past players – if you are wanting to learn about health and fitness with a primary focus of basketball - this course is for you!

### **Sport Specialized PE 10- Football**

This course was designed to provide students with an opportunity to further develop their strength, speed, athleticism, football skill, and knowledge. Students will spend their time in the weight room, on the track, on the field, and in the gym. Students will meet the learning outcomes for Active Living while focusing on football development. This course will give students a comprehensive understanding of all facets of the game of football. A large portion of the course will be on the field playing football games. Positional techniques will also be taught, focusing on all offensive and defensive positions in football. Special teams' positional techniques will also be taught. Students will study offensive and defensive plays and tactics. Students will learn the rules and terminology of football. There will also be a unit on football specific weight training and fitness. Some classes will be held in the classroom and will utilize video analysis. Formative and summative evaluation will be used to measure students' practical and technical understanding of course content

### **Sport Specialized PE 10- Rugby**

Rugby Foundations 11/12 will develop athletic ability and physical literacy while providing a gateway to social or professional involvement in lifelong physical activity and its attendant benefits. The physical literacy focus will be on the fundamental skills of the sport of rugby union (run, carry, evade, pass, catch, kick, tackle), along with a

focus on the four National Key Themes identified by Rugby Canada: run, pass, catch; ball out of contact; tracking & tackling; and breakdown & clear out. As well as these technical components, students will improve their understanding of team strategies and tactics. Additionally, students will gain recognized certifications as both entry level referees and community coaches, while learning the laws, history, cultural significance, and potential employment opportunities of rugby. Students will also learn about how to appropriately prepare for competition in sport, including a program of strength and conditioning, nutrition, psychological skills, general athletic skills, and sport-specific skills, in addition to team training. Ultimately, students will apply these skills to a series of match scenarios, which will be accompanied by debrief, reflection, and goal setting to scaffold ever-improving achievement.

### **Sport Specialized PE 10-Soccer**

This Physical Education Athletics course follows the principles of athlete development as laid out in the Long-Term Athlete Development (LTAD) to ensure enjoyable lifelong soccer opportunities for players of ALL levels of ability, as well as development for elite players to pursue excellence. The over-arching aim for the course is to fuel a passion for soccer for life.

### **Sport Specialized PE 10- Volleyball**

Grade 10-12 P.E. Athletics Volleyball will contribute to each student's physical, intellectual, emotional, and social maturity. The program will include a variety of activities with one clear emphasis of developing students' personal athletic attributes in the sport of volleyball. Students will participate in whole-group, small group, and individual activities to aid in physiological and psychological development. This is a course designed for high level athletes who are interested in augmenting their training regime through a sport specific training program. The course will emphasize student athletes to include the following training programs: Team Theorem volleyball specific weight training, agility and core training, aerobic and anaerobic training. This program will also provide students the opportunity to learn how to officiate the sport of volleyball. Students will gain knowledge to help them in future settings and to maintain a healthy lifestyle beyond the scope of the classroom. All students will be included and expected to participate to the best of their ability.

### **EXTENDED DAY:**

#### **Extreme Outdoor Education 10 \* Does not replace PHE 10 or OE 10**

(Formerly Community Recreation Extreme)

This course is for the outdoor enthusiast who is looking for timetable flexibility and a greater challenge than provided by regular PHE Outdoor Education offerings. This full year linear course will focus on introducing students to outdoor education by developing skills through adventure outings in backpacking and hiking, river rafting/kayaking, snowboarding/skiing, rock climbing, paintballing, as well as additional outings that vary from year to year. Outdoor Education Extreme students have their pick of all adventure outings offered in the program and are required to complete 100 adventure points throughout the course. The cost of these outings will vary and will be the responsibility of the student.

#### **Fitness and Conditioning 10 (Sports Performance)**

**\*This course does not satisfy the PHE/OE 10 grad requirement.**

This is a linear course that follows the same curriculum as Fitness and Conditioning 10/11/12. To be eligible for this class, students must get the approval of the PHE Department Head.

### **PE Leadership 9-12**

Extended Day; Full Year Linear Course. Enrollment by instructor approval. The grade 9-12 students in this course will work in teams to plan, promote, and run a variety of health and fitness related activities within the school. These activities include the intramural activity program which runs during the lunch break, as well as special events such as the Mouat Mudder obstacle course, and Mental Health Awareness Week. Leadership students will also support our extracurricular sports teams by participating in activities such as score keeping,



refereeing, or helping run various sporting events and tournaments. As an extended day course this class will meet weekly at lunch time.

## **GRADE 11**

### **ELECTIVE:**

#### **Active Living 11 Co-ed**

Active Living 11 gives students an opportunity to build on their PHE 9 and 10 experiences with the addition of even more real-world active lifestyle opportunities. The selection of in-school activities will be based on student interest levels, and some fitness activities may be included. Depending on class interest, leisure opportunities in the community may be available to enhance classroom activities.

#### **Outdoor Education 11 Co-ed**

(Formerly Community Recreation)

This course supplements the traditional PHE curriculum by giving students an opportunity to experience leisure and adventure activities in the community. Students will learn specific outdoor education skills, while they participate in more complex leisure opportunities. In addition, students will be given the opportunity, over the course of the school year, to go on many full day adventure outings offered as curricular enhancements through the extended day program. There is no course fee for this class, however all expenses associated with the adventure and leisure enhancement opportunities will need to be covered by the student. For real time pictures, videos, and descriptions of Outdoor Education activities visit our website at [www.commrecextreme.com](http://www.commrecextreme.com).

#### **Fitness & Conditioning 11 Co-ed**

Want to work out but can't find the time, or afford a gym membership fee? This course gives you an opportunity to set and pursue fitness goals and do this during the school day. Resistance/Weight training, speed and agility training, plyometrics, flexibility, cardiovascular training, and sports nutrition are all aspects of fitness focused on in this course. If you want to be in the best possible shape and perform better than you ever have before, this is the course for you. Course evaluation will be based on daily performance in class, monthly physical testing, weight training logbooks, and quizzes.

#### **Fitness & Conditioning 11 Female**

A great course for those that want to get their workouts in at school and learn to be their own trainer. You will set and pursue your fitness goals and will be able to write your own fitness program by the end of the course. The course focuses on strength training principles, sports nutrition, cardiovascular training and improving flexibility. This course incorporates a 3 day a week personalized strength training program, as well as core training and cardiovascular training. Assessment and evaluation are based on daily performance in class, weight training logbooks and quizzes on training principles.

#### **Sport Medicine 11**

Recommended: PE 10

Sport medicine is a senior course for students interested in sports, fitness, and recreation. Any student wanting to pursue a career in athletic training, kinesiology, physical therapy, physical education, or medicine will benefit from taking this course. Students will learn about human physiology, nutrition, and body mechanics. Students will also have hands-on training in athletic taping as well as learn how to treat various athletic injuries. For students who are athletes or want to pursue a career in the athletic field this is the perfect course for you.

#### **Sport Specialized PE 11 - Basketball**

This course is designed for students whose primary point of access to being a life-long learners in health and fitness is the sport of basketball. This course is open to any student who has a love of basketball regardless of

whether you play at school, in the community or are a past players – if you are wanting to learn about health and fitness with a primary focus of basketball - this course is for you!

### **Sport Specialized PE 11- Football**

This course was designed to provide students with an opportunity to further develop their strength, speed, athleticism, football skill, and knowledge. Students will spend their time in the weight room, on the track, on the field, and in the gym. Students will meet the learning outcomes for Active Living while focusing on football development. This course will give students a comprehensive understanding of all facets of the game of football. A large portion of the course will be on the field playing football games. Positional techniques will also be taught, focusing on all offensive and defensive positions in football. Special teams' positional techniques will also be taught. Students will study offensive and defensive plays and tactics. Students will learn the rules and terminology of football. There will also be a unit on football specific weight training and fitness. Some classes will be held in the classroom and will utilize video analysis. Formative and summative evaluation will be used to measure students' practical and technical understanding of course content

### **Sport Specialized PE 11- Rugby**

Rugby Foundations 11/12 will develop athletic ability and physical literacy while providing a gateway to social or professional involvement in lifelong physical activity and its attendant benefits. The physical literacy focus will be on the fundamental skills of the sport of rugby union (run, carry, evade, pass, catch, kick, tackle), along with a focus on the four National Key Themes identified by Rugby Canada: run, pass, catch; ball out of contact; tracking & tackling; and breakdown & clear out. As well as these technical components, students will improve their understanding of team strategies and tactics. Additionally, students will gain recognized certifications as both entry level referees and community coaches, while learning the laws, history, cultural significance, and potential employment opportunities of rugby. Students will also learn about how to appropriately prepare for competition in sport, including a program of strength and conditioning, nutrition, psychological skills, general athletic skills, and sport-specific skills, in addition to team training. Ultimately, students will apply these skills to a series of match scenarios, which will be accompanied by debrief, reflection, and goal setting to scaffold ever-improving achievement.

### **Sport Specialized PE 11-Soccer**

This Physical Education Athletics course follows the principles of athlete development as laid out in the Long-Term Athlete Development (LTAD) to ensure enjoyable lifelong soccer opportunities for players of ALL levels of ability, as well as development for elite players to pursue excellence. The over-arching aim for the course is to fuel a passion for soccer for life.

### **Sport Specialized PE 11- Volleyball**

Grade 10-12 P.E. Athletics Volleyball will contribute to each student's physical, intellectual, emotional, and social maturity. The program will include a variety of activities with one clear emphasis of developing students' personal athletic attributes in the sport of volleyball. Students will participate in whole-group, small group, and individual activities to aid in physiological and psychological development. This is a course designed for high level athletes who are interested in augmenting their training regime through a sport specific training program. The course will emphasize student athletes to include the following training programs: Team Theorem volleyball specific weight training, agility and core training, aerobic and anaerobic training. This program will also provide students the opportunity to learn how to officiate the sport of volleyball. Students will gain knowledge to help them in future settings and to maintain a healthy lifestyle beyond the scope of the classroom. All students will be included and expected to participate to the best of their ability.

### **EXTENDED DAY:**

#### **Extreme Outdoor Education 11**

(Formerly Community Recreation Extreme)

This course is for the outdoor enthusiast who is looking for timetable flexibility and a greater challenge than provided by regular Outdoor Education offerings. This full year linear course will focus on building specific outdoor survival skills, while providing students the opportunity to experience adventure outings in backpacking and hiking, river rafting/kayaking, snowboarding/skiing, rock climbing, paintballing, as well as additional outings that vary from year to year. Outdoor Education Extreme students have their pick of all adventure outings offered in the program and are required to complete 100 adventure points throughout the course. The cost of these outings will vary and will be the responsibility of the student.

### **Fitness and Conditioning 11 (Sports Performance) – Extended Day**

This is a linear course that follows the same curriculum as Fitness and Conditioning 10/11/12. To be eligible for this class, students must get the approval of the PHE Department Head.

### **PE Leadership 9-12**

Full Year Linear Course. Enrollment by instructor approval. The grade 9-12 students in this course will work in teams to plan, promote, and run a variety of health and fitness related activities within the school. These activities include the intramural activity program which runs during the lunch break, as well as special events such as the Mouat Mudder obstacle course, and Mental Health Awareness Week. Leadership students will also support our extracurricular sports teams by participating in activities such as score keeping, refereeing, or helping run various sporting events and tournaments. As an extended day course this class will meet weekly at lunch time.

## **GRADE 12**

### **ELECTIVE:**

#### **Active Living 12 – Co-ed**

Active Living 12 gives students an opportunity to build on their PHE 9 and 10, and Active Living 11 experiences with the addition of even more real-world active lifestyle opportunities. The selection of in-school activities will be based on student interest levels, and some fitness activities may be included. Depending on class interest, leisure opportunities in the community may be available to enhance classroom activities.

#### **Outdoor Education 12 Co-ed course**

(Formerly Community Recreation)

This course supplements the traditional PE curriculum by giving students an opportunity to experience leisure and adventure activities in the community. Students will expand their knowledge of outdoor education skills learnt in previous courses, develop leadership skills, and participate in more complex leisure opportunities. In addition, students will be given the opportunity, over the course of the school year, to go on many full day adventure outings offered as curricular enhancements through the extended day program. There is no course fee for this class, however all expenses associated with the adventure and leisure enhancement opportunities will need to be covered by the student. For real time pictures, videos, and descriptions of Outdoor Education activities visit our website at [www.commrecextreme.com](http://www.commrecextreme.com).

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#### **Fitness & Conditioning 12 Female**

A great course for those that want to get their workouts in at school and learn to be their own trainer. You will set and pursue your fitness goals and will be able to write your own fitness program by the end of the course. The course focuses on strength training principles, sports nutrition, cardiovascular training and improving flexibility. This course incorporates a 3 day a week personalized strength training program, as well as core training and cardiovascular training. Assessment and evaluation are based on daily performance in class, weight training logbooks and quizzes on training principles.

### **Sport Specialized PE 12 – Basketball**

This course is designed for students whose primary point of access to being a life-long learners in health and fitness is the sport of basketball. This course is open to any student who has a love of basketball regardless of whether you play at school, in the community or are a past players – if you are wanting to learn about health and fitness with a primary focus of basketball - this course is for you!

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### **Sport Specialized PE 12– Soccer**

This Physical Education Athletics course follows the principles of athlete development as laid out in the Long-Term Athlete Development (LTAD) to ensure enjoyable lifelong soccer opportunities for players of ALL levels of ability, as well as development for elite players to pursue excellence. The over-arching aim for the course is to fuel a passion for soccer for life.

### **Sport Specialized PE 12– Volleyball**

Grade 10-12 P.E. Athletics Volleyball will contribute to each student's physical, intellectual, emotional, and social maturity. The program will include a variety of activities with one clear emphasis of developing students' personal athletic attributes in the sport of volleyball. Students will participate in whole-group, small group and individual activities to aid in physiological and psychological development. This is a course designed for high level athletes who are interested in augmenting their training regime through a sport specific training program. The course will emphasize student athletes to include the following training programs: Team Theorem volleyball specific weight training, agility and core training, aerobic and anaerobic training. This program will also provide students the opportunity to learn how to officiate the sport of volleyball. Students will gain knowledge to help them in future

settings and to maintain a healthy lifestyle beyond the scope of the classroom. All students will be included and expected to participate to the best of their ability.

## **EXTENDED DAY:**

### **Extreme Outdoor Education 12**

(Formerly Community Recreation Extreme)

This course is for the outdoor enthusiast who is looking for timetable flexibility and a greater challenge than provided by regular Outdoor Education offerings. This full year linear course will focus on building on the foundational outdoor survival skills developed in previous courses and provide students with opportunities to develop their capacity as leaders. Students will have the opportunity to experience adventure outings in backpacking and hiking, river rafting/kayaking, snowboarding/skiing, rock climbing, paintballing, as well as additional outings that vary from year to year. Outdoor Education Extreme students have their pick of all adventure outings offered in the program and are required to complete 100 adventure points throughout the course. The cost of these outings will vary and will be the responsibility of the student.

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## SCIENCE

GRADE 9	GRADE 10	GRADE 11	GRADE 12
Science 9	Science 10	Chemistry 11 Earth Science 11 Life Sciences 11 Physics 11	Anatomy and Physiology 12 Chemistry 12 Geology 12 Physics 12 Specialized Science 12 (Laboratory Practice)

### GRADE 9

#### Science 9

Science 9 is an exploration and activity-oriented course. A calculator is recommended for this course. You will study the physical world in a laboratory setting. Emphasis is hands-on learning experiences to enhance your appreciation for the natural world. Making observations and arriving at suitable conclusions are stressed in the laboratory reports. Projects and lab activities are used whenever possible. The big ideas include a) Biology – Cells are derived from other cells, b) Chemistry – Electron arrangement of atoms impacts their chemical nature, c) Physics – Electric current is the flow of electric charge d) Earth Science – The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, as matter cycles and energy flows through them.

### GRADE 10

#### Science 10

Science 10 is a continuation of the concepts studied in Science 9. The course material is concept-oriented and requires mathematical calculations and problem-solving approaches. A calculator is required for this course. Laboratory work and report writing are further developed. The big ideas include a) Chemistry - Energy change is required as atoms rearrange in chemical processes, b) Biology – DNA is the basis for the diversity of living things, c) Physics – Energy is conserved, and its transformation can affect living things and the environment and d) Earth Science –The formation of the universe can be explained by the big bang theory.

### GRADE 11

#### Chemistry 11

Recommended: Minimum 73% in SC 10 and 67% in FMP 10.

Students should have a good working knowledge of mathematics and are required to have a scientific calculator that will be needed for exams. Chemistry 11 is an introductory academic course that builds a foundation for later studies in chemistry. Laboratory work will be used to develop the understanding of major concepts, and the lecture material involves both reasoning and problem-solving strategies. The major topics include a) Introduction to Chemistry, b) Atoms, Molecules, and Ions, c) The Mole Concept, d) Chemical Reactions, e) Atomic Theory, f) Solution Chemistry, and g) Organic Chemistry.

## **Earth Science 11**

Earth Science 11 is an exploratory science course that examines the dynamic systems of the Earth and their interactions with human activity. Students will investigate Earth's structure and processes, including plate tectonics, earthquakes, volcanoes, rocks and minerals, and surface processes such as weathering, erosion, and glaciation. The course also explores Earth's oceans, atmosphere, climate systems, and natural resources, with an emphasis on environmental sustainability and responsible resource management.

Through hands-on activities, labs, case studies, and real-world applications—many with a focus on British Columbia—students will develop scientific inquiry skills, critical thinking, and an understanding of how Earth processes shape the planet and affect society. Earth Science 11 supports the development of scientific literacy and prepares students for further studies in environmental science, geology, geography, and related fields.

## **Life Sciences 11**

Recommended: Minimum 73% in SC 10 Biology is a scientific discipline that studies the great variety of organisms and processes occurring in the living world. Life Sciences 11 is an introductory academic course that builds a foundation for later studies in biology, both in grade 12 and at university. This course examines 3 major themes: Unity and Diversity, Evolution and Ecological Relationships. A study of the major groups of organisms will be covered in the following units: a) Adaptation and Evolution, b) Microbiology, c) Plant Biology, d) Animal Biology and e) Ecology

## **Physics 11**

Recommended: Minimum 73% in both SC 10 and FMP 10.

Students will be expected to have a good foundation in math skills specifically trigonometry and algebra. Scientific calculators are essential. Students are expected to solve a wide variety of applied principles of physics using mathematical & critical thinking skills. Labs and projects support the theory discussed in class. The major topics include a) Kinematics (motion) & Projectile Motion, b) Vectors, c) Dynamics (forces), d) Momentum, e) Energy, f) Electric circuits, g) Waves & Optics (time permitting)

# **GRADE 12**

## **Anatomy and Physiology 12**

Recommended: Minimum 73% in Life Science 11 & Chemistry 11.

Intended for serious students who are continuing their education at university or other post-secondary institutions. Students will be expected to do 1.5 hrs. of homework every day. Experiments and dissections will be done to illustrate basic physiology. Major topics include a) Biochemistry, b) Cell Processes and c) Organ Systems.

## **Chemistry 12**

Recommended: Minimum 73% in CH 11 & PREC 11 as mastery of CH 12 requires strong mathematical skill. This course is intended for serious students who are continuing their education at university or other post-secondary institutions. Students will be expected to do 1.5 hrs. of homework every day. A scientific calculator with exponential and logarithmic functions is required. The course provides an in-depth examination of several important branches of Chemistry. The major topics include a) Chemical Kinetics, b) Chemical Equilibrium, c) Solubility, d) Acids, Bases, Salts and e) Oxidation-Reduction.

## **Geology 12**

Geology 12 is an in-depth science course that examines the composition, structure, and dynamic processes of the Earth. Students explore topics such as minerals and rocks, plate tectonics, earthquakes and volcanoes, mountain building, weathering and erosion, glaciation, and the geologic history of the Earth. The course also investigates

natural resources, geologic hazards, and the relationship between geology, society, and environmental sustainability. Learning experiences include hands-on labs, field studies, data analysis, and case studies—many focused on British Columbia and Canada. Students develop scientific inquiry skills, critical thinking, and an understanding of how geologic processes shape landscapes and influence human activity. Geology 12 prepares students for further study in earth sciences, environmental science, engineering, and related post-secondary pathways.

**Physics 12**

Recommended: Minimum 73% in PH 11 & PREC 11 as mastery of PH 12 requires strong mathematical skill. Students will apply vector analysis to a variety of problem-solving situations. This course is intended for serious students who are continuing their education at university. Students will be expected to do 1.5 hrs. of homework every day. Major topics include a) Kinematics (motion), b) Dynamics (forces), c) Energy & Momentum, d) Equilibrium (static forces), e) Circular Motion & Gravity, f) Electrostatics and g) Electromagnetism.

**Specialized Science (Laboratory Practice) 12**

(Formerly Bio/Chem Prep.) Recommended enrollment in: ANAT 12 and/or CH 12  
Designed for students taking Anatomy and Physiology 12 and Chemistry 12 who are planning to enroll in university science courses. Students will perform university level laboratory research and technical report writing. Lab skills and critical thinking are emphasized. This course has been developed to improve student success in university, both financially and academically. Students that have taken ‘Specialized Science 12’, tell us how much better prepared they were compared to their peers in first year at college or university. You will excel in lab classes at university after taking this course.

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**SOCIAL STUDIES**

GRADE 9	GRADE 10	GRADE 11 & 12
Social Studies 9	Social Studies 10	20th Century World History 12  BC First Peoples 12 Comparative Cultures 12 Connect-Interdisciplinary: Indigenous Studies Cohort Law Studies 12 Philosophy 12  Physical Geography 12  Social Justice 12



## **GRADE 9**

### **Social Studies 9**

This modern history course takes students on a journey from the Age of Revolutions (late 1700s) to the Laurier Era in Canada (early 1900s). Students will learn about the American and French Revolutions; major migrations and their effect on Canada; the fight for responsible government and Confederation of Canada, the colonization of western Canada and its effect on the First Nations; and Canadian geography. Throughout, students will apply historical thinking skills to critically analyze the people, events, and issues of the past.

## **GRADE 10**

### **Social Studies 10**

Social Studies 10 is a course that will look at Canada and the world from 1900 to the present. Students will explore Canada's role in global and regional conflicts, the development of our political institutions as well as various perspectives on our changing society, and also how historical and contemporary injustices challenge the narrative and identity of Canada as an inclusive, multicultural society. Throughout, students will apply historical thinking skills to understand how we have come to live in our contemporary world.

## **GRADE 11 & 12**

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

This course satisfies the SS 11/12 graduation requirement.

Learn about the roots of some of today's most pressing current events in 20th Century World History 12. In this academic course, using guided projects and lectures, we will delve into the major events, people, institutions and ideological forces that shaped the Twentieth Century and how they continue to reverberate through the Twenty-first. By examining how historical forces have shaped the modern world, teaching you the academic tools and methods of the historian, and honing your historical thinking skills, 20th Century World History 12 will prepare you for both post-secondary schooling and lifetime success!

### **BC First Peoples 12**

This course satisfies the SS 11/12 graduation requirement.

BC First Peoples 12 is an academic course intended for students who are looking to add to their academic transcript. Students will be exposed to the identities, worldviews, and languages of BC First Peoples as we renew, sustain, and transform our connection to the land. Specifically, students will look at the impact of contact and colonialism as it continues to affect the political, social, and economic lives of BC First Peoples. Students will explore the rich diversity and resilience of BC First Peoples while investigating self-governance, leadership, and self-determination challenges. Universities and colleges are looking for students to have some experience with First Peoples before entering their institutions – come discover the unwritten history of BC.

### **Comparative Cultures 12**

This course satisfies the SS 11/12 graduation requirement.

This is a survey course of ancient cultures with specific sections on the Origins of Humanity, ancient Egypt, Greece, China, India, the Mayans and Aztecs. Assessments will be balanced between projects and tests with a final project. This course dives into the value systems, diversity, environmental factors, artistic expression and views on war of ancient cultures. Students will explore the myths and religions from these cultures and pick a culture to pursue for their own research. Embark on a fun-filled adventure that teaches you about global cultures and inspires dreams of travel to distant lands.

### **Connect: Interdisciplinary Indigenous Studies Cohort (2 blocks)**

A new cross-curricular cohort opportunity that earns Grade 12 graduation requirements in English, Social Studies, and Careers (3 courses in only 2 blocks!) This cohort, open to ALL Grade 12 students, both Indigenous and non-Indigenous, meets each day in two back-to-back blocks to facilitate off-campus opportunities. CONNECT uses the First Peoples Principles of Learning to focus on the experiences, values, beliefs, and lived realities of First Peoples as evidenced in various forms of text such as song, film, prose, IG, Twitter, blogs, novels, and more. Students will be supported in their pursuit of learning through projects and seminars guided by their own curiosity and interest. This cohort earns you credit for:

**Contemporary Indigenous Studies** (Social Studies Requirement) 4 credits

**English First Peoples 12** (English 12 Requirement) 4 credits

**Career Life Connections 12** (Grad requirement) 4 credits

### **Law Studies 12**

This course satisfies the SS 11/12 graduation requirement.

Law Studies 12 is a course that focuses on the structure and function of Canadian law. The course concentrates on four areas of law including the foundations of law (principles, sources, and structure), criminal law, civil law, and youth law. Other topics include the Canadian Constitution, the Charter of Rights and Freedoms, courts, legislation concerning First Peoples, the Canadian correctional system, and international courts. This course is designed to provide learning opportunities for students with a wide range of interests. It is especially recommended for those interested in careers in law, criminology, law enforcement, court services and small business.

### **Philosophy 12**

This course satisfies the SS 11/12 graduation requirement.

Does AI deserve rights if it becomes indistinguishable from humans? How would you describe reality? How should a self-driving car decide who to hit if the brakes fail? What responsibilities do an individual and a society have to each other? All of these are philosophical questions that are being considered in our world. Everything from politics to our choice of grocery store have to do with philosophy. In Philosophy 11/12, we will explore moral dilemmas, real historic choices, your view of the world and what our place in it should be, along with many other questions.

### **Physical Geography 12**

This course satisfies the SS 11/12 graduation requirement.

Physical Geography 12 explores the natural processes and systems that shape the Earth's surface and influence global patterns and environments. Students investigate the lithosphere, atmosphere, hydrosphere, and biosphere, with a focus on landforms, weather and climate systems, coastal and fluvial processes, glaciation, and ecosystems. Emphasis is placed on understanding spatial patterns, human–environment interactions, and the impacts of natural hazards and climate change.

Through inquiry-based learning, field studies, labs, mapping and geospatial analysis, and case studies—many drawn from British Columbia and Canada—students develop critical thinking, data analysis, and geographic skills. Physical Geography 12 supports informed environmental decision-making and prepares students for post-secondary studies in geography, environmental science, earth sciences, and related disciplines.

### **Social Justice 12**

This course satisfies the SS 11/12 graduation requirement.

Social Justice 12 is a course that is based on the premise “Once you know better, you do better” - Maya Angelou. In this course you will have the opportunity to examine issues such as: worldview, bias, values, poverty, consumerism, gender, hate, racism, discrimination, war, and genocide. You will gain knowledge that will allow you to recognize and understand the causes and consequences of injustice, and you will have the opportunity to understand how to behave in a socially responsible manner and become agents of change by exploring solutions to these issues.

**Psychology 11\***(This course **does not** satisfy the SS 11/12 or Fine Arts/Applied Skills graduation requirement.)

What are symptoms of obsessive-compulsive disorder? How do we use our senses to understand the world around us? What is an altered state of consciousness? These questions and more are investigated in Psychology 11, an introductory course that uses scientific inquiry to explore the psychological understanding of mental processes and human behavior.

**Psychology 12 \***(This course **does not** satisfy the SS or Fine Arts/Applied skills11/12 graduation requirement.)

Why are teens more likely to do something reckless when someone is watching? How do we support those with mood disorders like depression? How can we learn effective coping strategies to deal with the stress of our lives? In Psychology 12 we continue our examination of mental processes and behaviors through units of study including personality, psychological disorders, social psychology, and methods of therapy. This course is especially recommended for students pursuing careers that involve working with people.