

**New Westminster School District #40**



# **New Westminster Secondary School**

**835 Eighth Street, New Westminster BC**

---

## **Course Descriptions**



# **2016**

---

**Mathematics**  
**Physical Education**  
**Planning Career Programs**  
**Science**  
**Social Studies**  
**Technical Education**  
**Visual & Performance**

**Business**  
**English**  
**ELL**  
**Home Economics**  
**International Baccalaureate**  
**Languages**



# APPRENTICESHIP AND CAREER PROGRAMS

**NOTE:** Apprenticeship (ACE-IT) programs require submission of an application package and an interview. See [www.nwss-apprenticeship.com](http://www.nwss-apprenticeship.com) or a Career Programs teacher for an application form.

## **AUTOMOTIVE REFINISHING PREP AND PAINTING APPRENTICESHIP PROGRAM (ACE-IT)**

**#7000**

**Open to:** Grade 11 & 12 students

**Location:** Vancouver Community College (Broadway Campus)

**High school credits:** 5 courses = 20 credits (PSIZ 12A, 12B, 12C, 12D, 12E, 12F) in 2<sup>nd</sup> semester

**Post-secondary credits:** Level 1 Auto Refinishing Prep Tech from the Industry Training Authority (ITA)

**Minimum requirements:** English 11 or Communications 11 plus any type of Math 11 (not Accounting 11), strong interest in the autobody industry and normal colour vision

**Cost paid by student:** \$500 (for materials used at VCC), and approximately \$250 for books/mask

**Main learning:** Apply body filler to indents and sand it smooth, mix paint to the correct colour and thickness, cover all parts that will not be painted and then apply primer, paint and sealant with a spray gun

## **BAKING AND PASTRY ARTS APPRENTICESHIP PROGRAM (ACE-IT)**

**#7060**

**Open to:** Grade 11 & 12 students

**Location:** Vancouver Community College (Downtown Vancouver)

**High school credits:** 6 courses = 24 credits (PSIZ 12A, 12B, 12C, 12D, 12E, 12F) in 1<sup>st</sup> semester, program may take 1 month longer than regular semester to complete (start in August)

**Post-secondary credits:** Level 1 Baker from the Industry Training Authority (ITA)

**Minimum requirements:** Foodsafe Certification, strong attendance and punctuality record and overall strong health; strong interest in the baking industry with preference given to students who have completed a Cafeteria course

**Cost paid by student:** \$500 (for materials used at VCC), and approximately \$700 for books/tools

**Main learning:** Measure and prepare ingredients according to recipes, often starting early in the day, and operating mixers, ovens, and other equipment; decorate and package finished baked goods; may set prices, order supplies, or serve customers

## **CARPENTRY APPRENTICESHIP PROGRAM (ACE-IT) LEVEL I**

**#7075**

**Open to:** Grade 11 & 12 students

**Location:** New Westminster Secondary School with 6 weeks at BCIT

**High school credits:** 4 courses = 16 credits (CARP 12A, 12B, 12C, 12J), semester 2

**Post-secondary credits:** Level 1 Carpenter from the Industry Training Authority (ITA)

**Minimum requirements:** English 11 or Communications 11 plus any type of Math 11 (not Accounting 11), strong interest in the construction industry

**Cost paid by student:** \$500 (for construction supplies) plus \$300 refundable toolbox deposit, plus work book cost (approximately \$135)

**Main learning:** Works safely to build structures out of wood, skilled with hand and power tools; wood framing, concrete forming, site prep and layout, build stairs and roof trusses

## **DISCOVER APPRENTICESHIP 10**

## **SKILLS EXPLORATIONS 10**

**#380**

## **PLANNING 10**

**#383**

Want to explore careers with hands on fun and earning potential?

The Discover Apprenticeship Program offers students a focus on LEARNING BY DOING.

- open to grade 10 students
- Semester 1, blocks C and D only
- Consists of Skills Exploration 10 (#380) and Planning 10 (#383) courses with an apprenticeship focus (including several field trips, for example, at BCIT and/or the workforce). Students will participate in hands-on activities in the Skills Exploration 10 course in such areas as Electrical, Piping, Framing, Finishing carpentry, Dry walling and other trades. This would help students to choose whether or not to enroll in an apprenticeship (ACE-IT) program in their Grade 11 or 12 year and, if so, which program would be the best fit for them.

**Cost paid by student:** \$50 to cover a portion of the cost of construction materials plus steel toed boots are required. Requirements: Strong hands-on learning interest

## **GRADUATION TRANSITIONS PROGRAM/STUDY**

**#624**

Want to finish your required Graduation Transitions Program (GTP) efficiently and effectively? Attend this class every other day (alternating with a study block) in 1 semester to complete the required GTP for 4 credits. You will have a teacher present to guide you through the program, answer questions and conduct your final interview.

Once you have met the requirements and completed your interview, you do not need to attend class any more.

## **GRADUATION TRANSITIONS PROGRAM – INDEPENDENT**

**#623**

If you work well without any supervision or structure and can still complete your assignments on time, this may be the option for you. Pick up the Graduation Transitions booklet in Sept. and complete it on your own. You will have a teacher assigned to you to track your progress for report cards and to conduct your final interview. Otherwise, you are on your own – if you select this option, be sure you can find answers to your post-secondary questions and read and follow directions well on your own – it's the independent route!



# APPRENTICESHIP AND CAREER PROGRAMS

## METAL FABRICATION APPRENTICESHIP PROGRAM (ACE-IT)

#7090

**Open to:** Grade 12 students

**Location:** BCIT in Burnaby (semester 2 only, ends the 1<sup>st</sup> week of July)

**High school credits:** 6 courses = 24 credits (PSIA 12A, 12B, 12C, 12D, 12E, 12F)

**Post-secondary credits:** Level 1 Metal Fabricator from the Industry Training Authority (ITA) and BCIT Foundation Credential

**Minimum requirements:** English 11 or Communications 11 plus any type of Math 11 (not Accounting 11); good health, strong interest in the metal construction industry

**Cost paid by student:** \$500 (for materials used at BCIT), plus cost of books and steel toe boots

**Main learning:** Builds with metal, like a metal carpenter; skilled with hand and power tools, welding, cutting, and much more; employed in structural steel plants, heavy machinery manufacturers, ship-building companies and many other areas

## MILLWRIGHT APPRENTICESHIP PROGRAM (ACE-IT)

#7050

**Open to:** Grade 12 students

**Location:** BCIT in Burnaby (semester 2 only, runs into July)

**High school credits:** 6 courses = 24 credits (PSIA 12A, 12B, 12C, 12D, 12E, 12F)

**Post-secondary credits:** Level 1 from the Industry Training Authority (ITA) and BCIT Foundation Credential

**Minimum requirements:** English 11 or Communications 11 plus any type of Math 11 (not Accounting 11); Strong interest in the manufacturing industry with normal colour vision

**Cost paid by student:** \$500 (for materials used at BCIT), plus cost of books and steel toe boots

**Main learning:** Install, maintain and repair machines that factories rely on to manufacture products; uses problem solving skills and technical skills from various trades, including blueprint/drawing reading and operating hoisting/lifting devices - has a great variety of job duties and, because of this, is a master of all trades

## MOTORCYCLE TECHNICIAN APPRENTICESHIP PROGRAM (ACE-IT)

#7010

**Open to:** Grade 12 students

**Location:** BCIT in Burnaby (semester 2 only)

**High school credits:** 5 courses = 20 credits

**Post-secondary credits:** Level 1 & 2 Motorcycle Tech from the Industry Training Authority (ITA)

**Minimum requirements:** English 11 or Communications 11 plus any type of Math 11 (not Accounting 11); good health; strong interest in mechanical industry

**Cost paid by student:** \$500 (for materials used at BCIT), plus cost of books and steel toe boots

**Main learning:** Service motorcycle and small engines, power transmissions, brakes, fuel delivery and electrical systems; skilled with hand and power tools, welding, cutting and brazing

## PAINTER/DECORATOR APPRENTICESHIP PROGRAM (ACE-IT)

#7073

**Open to:** Grade 11 & 12 students

**Location:** Finishing Trades Institute (FTI) in Surrey (runs from mid-June to end of July – 6 weeks)

**High School credits:** 1 course (IDS12)

**Post-secondary credits:** Level 1 from the Industry Training Authority (ITA)

**Minimum requirements:** Grade 10 English and Math, good health, normal colour vision and low fear of heights

**Cost:** \$0

**Main Learning:** gain an understanding of the painting industry as a whole; introduced to common coatings, surface preparation, and the tools used in the trade, including airless spray; safety program includes respirator training, fall protection, ladder and scaffold training, and WHMIS

## PLUMBING APPRENTICESHIP PROGRAM (ACE-IT)

#7020

**Open to:** Grade 11 & 12 students

**Location:** New Westminster Secondary School with 4 weeks at the Piping Industry College (PIC)

**High school credits:** 4 courses = 16 credits (PSAI 12A, 12B, 12C, 12D), semester 1

**Post-secondary credits:** Level 1 from the Industry Training Authority (ITA)

**Minimum requirements:** English 10/11 or Communications 11 and any type of Math 10/11 (not Accounting 11)

**Cost paid by student:** \$500 (for construction supplies plus

\$300 refundable toolbox deposit, work book (\$200) and steel toe boots.

**Main learning:** Plan the design, installation and service of various types of piping systems; safely work with water and gas heating systems, water supply and drainage; skilled with hand and power tools, torches and welding equipment; blueprint reading, drafting and sketching

## PLANNING 10

#333

Planning 10 is about personal responsibility and inspiration! Its goals include:

becoming informed decision makers; accessing and analyzing information relevant to your life; understanding more about who you are and your role in getting and staying personally, financially, educationally and career "healthy"; planning your transition from secondary school to the rest of your life.

Students will be introduced to the Graduation Transition Program in Planning 10, will be responsible for continuing this process throughout Grade 10 and 11 and will complete and present this 4 credit requirement in Grade 12.



# APPRENTICESHIP AND CAREER PROGRAMS

## PROFESSIONAL COOK (CHEF) PROGRAM (ACE-IT) LEVEL I

#7100

**Open to:** Grade 11 & 12 students

**Location:** New Westminster Secondary School plus 5 weeks in the summer at VCC's Vancouver campus

**High school credits:** 4 courses = 16 credits (Cook 12A, 12B, 12C and 12D), semester 2

**Post-secondary credits:** Level 1 from the Industry Training Authority (ITA)

**Minimum requirements:** English 10/11 or Communications 11, any Math 10/11, plus Food Safe certificate, physically able; must have completed a Cafeteria course or be willing to complete such a course in semester 1 before this program starts

**Cost:** \$500 (for culinary supplies and replacement tools in knife rolls) plus \$300 refundable tool deposit, plus workbook/chef coat/hat (approximately \$135)

**Main learning:** Prepares vegetables, soups, sauces, meats, fish, poultry, cold kitchen items, desserts, baking and pastry for presentation; basic menu planning/ costing; supervises safety in the kitchen, sanitation and safe food storage

## SECONDARY SCHOOL APPRENTICESHIP

#603 / #604 / #605 / #606

**Open to:** Grade 10, 11 & 12 students

**Location:** at a job site where the student is hired as a paid employee (students must find their own job/apprenticeship position and have an apprenticeship number before registration can occur for school course credit).

**High school credits:** for every 120 hours of apprenticeship, 1 course may be earned, up to a total of 4 courses = 16 credits (SSA 11A, 11B, 12A, 12B)

**Post-secondary credits:** Work-based training hours toward level 1 apprenticeship

**Minimum requirements:** job in a trades area, 15 years of age or older, working under the supervision of a journeyperson

**Cost paid by student:** \$0

**Main learning:** work-based training specific to the trade

## SKILLS & BUILDING 12 ACADEMY

#820 / #821

**SKILLS EXPLORATION 12** #820

**GRAD TRANSITIONS PROGRAM** #821

Are you interested in getting a QUALITY job right after high school graduation and earning better than minimum wage? Learn by doing in apprenticeship career areas mainly in the construction industry; some certifications may be available (i.e. WHMIS, CSTS, Forklift training, First Aid); field trips and job shadows will be part of the program (potential to earn Work Experience 12 credit too!)

**Open to:** Grade 12 students

**HighLocation:** NWSS with potential work experience at job site(s), usually in semester 2 Blocks C & D

**High school credits:** 2 courses (8 credits) for Grad Transitions Program (GTP) and Skills Exploration 12

**Cost paid by student:** \$50 to cover a portion of the cost of construction materials; costs for any certifications earned, steel toed boots

## WORK EXPERIENCE 12A or 12B

#600 / #601

Work experience is intended to help prepare students for the transition from secondary school to the world of work or further education and training. The community becomes the classroom where students gain knowledge and experience about the workplace and are provided with a frame of reference to review or revise their career goals.

Work experience provides students with an opportunity to apply classroom learning in a context outside of school and to bring back to the classroom new perspectives about their learning. Work experience also provides students with the chance to gain new skills that can be used in future work opportunities.

20% of work experience course hours is devoted to in-school learning or assessment activities for the course. 80% of the time will consist of actual work placements in the community setting. An application process is required. Please see your counsellor for details. Once students have requested Work Experience, an interview with Career Programs teacher is required in order to ensure there is an appropriate match for work placements.





# APPRENTICESHIP AND CAREER PROGRAMS

---

## **CONFLICT RESOLUTION 11 Grades 9-12**

**#491**

Are you thinking of going into careers involving helping others, education, health care, business, entrepreneurship, law enforcement, or other service industries? Then this is the course for you! This is an introduction to collaborative conflict resolution skills. Topics include specific communication skills, the dynamics of conflict, anger management, understanding and handling emotions, and the negotiation model as a process for handling disputes. This is an interactive course that includes team building, discussion and role play activities in a safe and supportive learning environment. Students are able to obtain dual credit for this course in the Justice Institute of BC's Centre for Conflict Resolution certificate program. The course credit assigned depends on the grade the student is in; for example, a grade 11 student would normally get credit for Conflict Resolution 11.

**PREREQUISITE:** NONE

## **CONFLICT RESOLUTION ADVANCED Grades 10-12**

**#498**

This course is the second level of three offered in the NWSS Conflict Resolution Program. Topics covered in the level one course (Conflict Resolution) are extended and further integrated into the students' repertoire. Students enhance their skills in how to have sticky conversations and tap into the potential creative energy that lies in conflict to create longer-term solutions that preserve relationships. As well, students will learn the mediation model of as a process for handling third-party conflicts. Dual credit for this course is available at the Justice Institute of BC.

**PREREQUISITE:** Conflict Resolution

## **CONFLICT RESOLUTION LEADERSHIP Grades 11-12**

**#598**

This course is the most advanced course offered in the NWSS Conflict Resolution Program. Topics discussed in the level two course are extended and further integrated into the students' repertoire. An added component to this course is the study of selected topics in mediation; namely, dealing with intense emotions; shifting from positions to interests; mediating with groups; advanced skill development; and legal and ethical considerations to name a few. Students will also develop their leadership and coaching skills and study the emerging literature in mediation. Dual credit for this course is available at the Justice Institute of BC.

**PREREQUISITE:** Conflict Resolution Advanced



# BUSINESS EDUCATION

## ACCOUNTING 11

#450

Do you want to be your own boss, now or in the future? Do you want to run your own small business and save money on taxes? Do you want to learn how to complete your own personal tax returns or understand how and why businesses work? Accounting is essential. Accounting 11 will allow you to find out if you are interested in accounting as an in-demand, well-paid occupation. The course will include a business simulation Monopoly game which will run for 6 to 7 classes

**NOTE:** This course no longer meets the Math requirement for graduation.

**A fee may be charged for this course.**

## ACCOUNTING 12

#550

This course includes a review of Accounting 11 and a thorough study of modern computer accounting methods and software. You will explore many different types of businesses, with the majority of the classwork being practical application and in-class assignments. Students completing this course will have a highly employable skill and an in-depth understanding of how many different types of businesses function.

**PREREQUISITE:** Accounting 11.

**A fee may be charged for this course.**

## BUSINESS COMMUNICATION 10 (KEYBOARDING)

#350

\* Open to students in grade 9 or 10.

This is an introduction to typing for business and personal use. This course is a necessary life time skill course and a "must" course for any student anticipating a career in computers.

Some points stressed in this course are: touch-typing techniques, improvement of speed, formatting of letters, and resume writing.

## BUSINESS COMPUTER APPLICATIONS 11 (KEYBOARDING)

#454

This course is designed particularly for students who wish to learn to type for their own personal use (term papers, personal letters, essays). This course will help improve keyboarding speed and accuracy. It is an introductory course for Grade 11 or 12 students. It is recommended that students with a credit in KB9 NOT take KB11.

## BUSINESS FINANCE & ECONOMICS 10

#348

Do you know what to do when you: want to buy a car, get a loan, need a credit card, operate a business, keep a budget, invest your money, and learn to keep a record of it all? If you'd like to know how, then this course is for you.

# COMPUTERS

## INFORMATION TECHNOLOGY 10

#349

\* Open to grade 9 and 10 students.

An introduction to the use of: computers, graphic design, as well as introductions to basic game programming, video editing and web programming. These topics can be explored further at the senior level. Students will create a mini-game, editing short video clips and create a mini website as part of their final projects. There are no final exams in this course. See Video section of the school website.

Go to [www.nwss.ca](http://www.nwss.ca) for video presentation.

## COMPUTER PROGRAMMING 11 (PROGRAM FOCUS)

#423

## COMPUTER PROGRAMMING 12 (PROGRAM FOCUS)

#523

**These two courses** are the foundations for students interested in entering computer science courses at any post secondary institutions. As well, students interested in pursuing a career in math, engineering, physics and computers would be encouraged to apply for these two courses.

You will be learning to write codes for all sorts of applications. There are 3 languages offered in this course: Java, C, and C++. This course is divided into various sections, you will be given an option to go into which ever code you prefer and move on to more advanced applications of each kind of language. Eclipse is the compiler of choice for many post secondary institutions including the University of Waterloo in Ontario. Eclipse is a multi-language software development environment comprising an integrated development environment and an extensible plug-in system. It is written mostly in Java and can be used to develop applications in Java and, by means of various plug-ins, other programming languages including C and C++.

Also available for Grade 9 & 10 basic introductory computer programming, C language only, course #349, Information Technology.

**#421 & #423, and #521 & #523 are the same courses with different focuses.**

**Only one of the 400 level courses and one of the 500 level courses may be counted toward graduation.**



# BUSINESS EDUCATION

---

## COMPUTER PROGRAMMING 11 (GAME FOCUS) #421

## COMPUTER PROGRAMMING 12 (GAME FOCUS) #521

In these two courses you will learn to create basic and advanced games. Level I and II, Course #421 is for novice programmers. Levels III and IV, Course #521, is for more advanced programmers. It is strongly recommended that prior to entering into Level IV, UDK's Scripting Manager, that students familiarize themselves with C or C++ programming (Course #423).

Unreal Development Kit (UDK) is the Unreal Engine 3 that uses a fully integrated editing environment and is the driving engine that is used to make professional games. UDK's multi-threaded rendering system, Gemini, gives a 64-bit HDR rendering pipeline. The Unreal Content Browser makes managing assets like meshes, materials, sounds, and animations easier than ever. Real world physics are taken into account when UDK compiles the game you have created. You can build amazing scenery and terrain using the fracturing tools that UDK offer, making the games you create more realistic than ever. See Video section of the school website. Go to [www.nwss.ca](http://www.nwss.ca) for video presentation. Also available for Grade 9 & 10 basic introductory gaming programming, Level I only, course #349, Information Technology.

**#421 & #423, and #521 & #523 are the same courses with different focuses.**

**Only one of the 400 level courses and one of the 500 level courses may be counted toward graduation.**

## DESKTOP PUBLISHING 11 #458

This course is available to students in grade 10 and 11. Students are responsible for mastering the basics of creating, editing and manipulating digital images for the purposes of publication in the school yearbook.

This is a morning Z block course. An information meeting is held in June. Enrollment is limited.

**Interview and instructor permission required.**

## DESKTOP PUBLISHING 12 #551

This course is available to students in grade 11 and 12. Students attain advanced knowledge of creating, editing and manipulating digital images for the purposes of publication in the school yearbook. Students also design and create pages that meet pre-press industry standards. The basics of image creation for the world wide web is also covered. This is a morning Z block course. An information meeting is held in June. Enrollment is limited.

**Interview and instructor written permission required.**

## DIGITAL MEDIA 11 #422

## DIGITAL MEDIA 12 #552

In the 3D portion of Digital Media 12, students will explore on how to create 3D projects using Sony Vegas video editor. As well as learning on how to import, adjust, edit, preview and output 3D media, students will also work within an industry-standard professional environment. The Video Preview window provides a comprehensive selection of videoing options including channel specific, top/bottom, side by side, and a blend of both that will allow monitoring in 3D when performing 3D edits. This course will teach students on how to create 3D motion effects with precise control over Z-depth, plan intersection, compositing, and more. Within this Digital Media courses students will be able to create web pages for websites that encompasses 3D motion in real time by using multiple tracks to move and rotate in 3D space. See Video section of the school website. Got to [www.nwss.ca](http://www.nwss.ca) for video presentation.

Also available for Gr. 9 & 10 basic introductory video editing course # 349, Information Technology.

## MARKETING 11 #459

This course serves as an introduction to the business world.

Students develop knowledge of the four p's of marketing: **product, price, place and promotion.**

Classes study the consumer and business management perspectives of marketing and advertising.

### **Questions considered:**

Why do certain ads influence us? Why do we remember certain ads?

What is the process involved from the production of a product to the time it reaches the hands of the consumer?

Students will participate in group activities and presentations in addition to individual work.

**PREREQUISITE:** NONE

## MARKETING 12 #558

Builds on concepts learned in Marketing 11 and focuses on International Marketing.

Students will also work in small groups to run N-GRUB.

**PREREQUISITE:** Marketing 11.

## YEARBOOK 12 #549

Prerequisite: Desktop Publishing 11 or 12 **strongly** recommended.

This year long course is available to students in grade 12. Students are responsible for the production and distribution of the school yearbook. Students develop leadership, teamwork and editing skills. Students may be assigned to work in the areas of photography, copy writing, page layout, advertising, art, concept design and/or distribution.

The yearbook is produced using desktop publishing program and image design software.

This is a morning "Z" block course. An information meeting is held in June. Enrollment is limited.

**Interview and instructor permission required.**



# ENGLISH

---

## COMMUNICATIONS 11

#409

The Communications 11 and 12 curriculum is designed for students who may not plan to pursue academic studies beyond Grade 12. The primary goal of the curriculum is to strengthen students' basic skills in comprehending and producing language by providing a framework intended to help students:

- use language competently to understand and respond to communications in spoken, written and visual forms;
- develop the basic reading and writing skills required of informed citizens prepared for employment in a changing workplace;
- develop a foundation of communication skills necessary for life-long learning;
- use language appropriate to the situation, audience, and purpose in their day-to-day lives and in the workplace;
- present and respond to ideas, feelings and knowledge;
- explore literary works as a way of knowing, developing personal values, understanding our literary and multicultural heritage and broadening experience.

## COMMUNICATIONS 12

#504

The course is designed for students who achieve no higher than a "C-" standing in English 11, or, who have taken Communications 11 and wish a continuance of that course.

Communications 11/12 fulfills the English requirement for graduation.

A provincial Examination accounting for 40% of the mark will be written at the end of the term.

## CREATIVE WRITING 12

#506

Expose yourself to writing! Explore your creative process and discover your writer's voice. Give yourself the chance to build a poem, perform a slam, captivate an audience and conceptualize a novel or graphic novel. You will have opportunities to publish poems and short stories. As the course comes to a close you will have a strong portfolio under your arm and a better understanding of your writing career options.

## ENGLISH 9

#200

English 9 is a part of the new BC English Language Arts curriculum. It focuses on the core competencies of communication, thinking, and personal and social responsibility. These skills are explored and developed using various types of literature and through writing about and analyzing the literature. The curriculum is designed for students to comprehend and connect with the literature and to create/write and communicate their thoughts.

## ENGLISH 9 HONOURS (NWSS Pre-IB)

#207

This is an intensive course designed for students intending to pursue the International Baccalaureate Programme. This is a literature-based course. Students will study a variety of genres: short stories, novels, one Shakespeare play and one other, and poetry. The literature will be a combination of International, Canadian, and Aboriginal. Class discussions and essays will analyze techniques which develop meaning in a text. It will include the writing of journals, essays and notes as a literary commentary and responding to ideas in the literature. Formal essays will be revised and polished. There will be oral reports, and exposés on literature. The analysis of sentence structure and grammar, time management, homework and study skills will be taught.

## ENGLISH 10

#300

Students of English 10 are required to read novels, short stories, poems, plays and a variety of non-fictional material. The study of literature will continue to develop literal, inferential, and critical levels of comprehension. Students will continue to develop listening and speaking skills. Writing will focus upon longer multi-paragraph composition. An English Placement test is written towards the end of the course which will help determine students' Senior English Placement. At the end of the term students are required to write the English Language Arts 10 Provincial Exam which counts for 20% of their overall grade.

## ENGLISH FIRST PEOPLES 10

#306

English First Peoples 10 is an exciting addition to the BC high school curriculum that offers students of all backgrounds the opportunity to explore First Peoples' worldviews through literature. The First Peoples Principles of Learning guide students and teachers through the rigorous curriculum. The course highlights Canadian and international First Peoples literature as the point of discussion.

For further information about the EFP 10 course curriculum and the provincial exam visit [www.bced.gov.bc.ca](http://www.bced.gov.bc.ca)

## ENGLISH 10 HONOURS (NWSS Pre-IB)

#307

This is an intensive course designed for students intending to pursue the International Baccalaureate program. This is a literature-based course. As in Grade 9, students will study a variety of genres, but there will be more emphasis on World Literature. Critical awareness and appreciation of literary structures, styles and voices will be emphasized. The writing will be expository and creative, and consist of commentaries, exercises in style, informal journal writing, and formal essays. The editing of one's own work and peer-editing will be required in the writing process.





# ENGLISH

## ENGLISH DYNAMICS 10

#305

English Dynamics 10 is a course designed to meet the needs of students who struggle with the pace and curricular weight of a regular English 10 course. English Dynamics 10 is intended to provide a smooth transition for students proceeding to Communications. This course provides a structured, interactive opportunity to meet the same Learning Outcomes as regular English 10 and develop the skills necessary for success in Communications 11. Students in English Dynamics 10 are expected to complete the English Language Arts 10 Provincial Examination, and will have their class and exam results reported out on their academic transcripts as "English 10". Students are referred to this course by classroom teacher. Please see your counsellor.

## ENGLISH 11

#400 / #401

Students in English 11 are required to read novels, short stories, poems, plays and a variety of non-fictional material. Oral presentations form part of the course as do a number of other graphic and written assignments; emphasis, however, is placed on the analysis of literature in expository form. In addition, students will engage in a variety of forms of writing.

## ENGLISH 12

#500 / #502

Students in English 12 are required to read novels, short stories, plays, poems, and a variety of non-fiction material. Emphasis will be on critical analysis and evaluation of literary works in expository form although other forms of writing will also be studied. A Provincial Examination accounting for 40% will be written at the end of the term. The remaining 60% of the final grade is derived from assignments, essays and tests.

**PREREQUISITE:** Strongly recommend a minimum of 60% in English 11.

## ENGLISH FIRST PEOPLES 12

#503

English First Peoples 12 is an exciting addition to the BC high school curriculum that offers students of all backgrounds the opportunity to explore First Peoples' worldviews through literature. The First Peoples Principles of Learning guide students and teachers through the rigorous curriculum. The course highlights Canadian and International First Peoples literature as the point of discussion and analysis.

For further information about the EFP 12 course curriculum and the provincial exam visit [www.bced.gov.bc.ca](http://www.bced.gov.bc.ca).

## ENGLISH LITERATURE 12

#505

This course provides an excellent opportunity to explore the development of literature written in English from the earliest Anglo-Saxon writings to those of modern day. Students will be encouraged to synthesize their growing knowledge of various examples, genres, and periods of literature into the context of their day-to-day lives. Authors studied include Chaucer, Shakespeare, Donne, Wordsworth, Keats, Eliot, Yeats, Atwood, and Heaney.

## IB ENGLISH 11 / IB ENGLISH 12

#2400 / #2500

The focus of IB English is the study and appreciation of literary achievements of our culture and the cultures of other societies. Students will develop skills in literary criticism, writing, and oral presentation through a study of World Literature texts in translation, poetry, novels, drama, and non-fiction texts written in English. Students will complete a number of creative and analytical assignments, including written examination of a work in detail, and an essay exam. IB English 11 aims to promote an international perspective and understanding of cultures by comparing works of different societies and times, as well as an enjoyment of, and lifelong interest in world literature.



© Can Stock Photo - csp3146209



# EQUINOX PROGRAM

Equinox is a powerful **Grade 9 Program** focused on students working together as a community. It represents an opportunity to bring 21<sup>st</sup> Century Learning to life, utilizing the new BC Curriculum, the concepts of project based integrated and personalized learning as outlined in the BEd Plan, and focused on the principles of student empowerment and social justice. Two teachers, a student cohort and parents will work together to develop a program personalized to the needs of this particular group of students and the Grade 9 curriculum requirements. All students who apply to Equinox will fill out the 'Regular Program' box on the Grade 9 course selection sheet.

\*If students are selected for the Equinox Program their schedules will be updated accordingly.

**Students apply on the Equinox website.** <http://equinoxnwss.wix.com/nwss>

## Courses:

All course work will focus on the competencies outlined in the new BC Curriculum – Communication, Critical Thinking, Positive Personal and Cultural Identity, Personal Awareness and Responsibility and Social Responsibility. They will be integrated in various ways throughout the year in a project based personal learning format where students will be empowered to work with teachers to formulate the content and activities with the **overall theme of global issues and sustainable literature through out the curriculum.**

Students will get credit for the following Grade 9 courses together as a part of their cohort.

- Science
- Math
- Social Studies
- English
- Physical Education
- Fine Arts
- French
- Drama

## Mathematics

Students will work and reflect on the skills of reasoning, analysis, understanding and solving as well as communicating and representing as they explore numerical and spatial reasoning, logic, and patterns, operations with polynomials, operations with rational numbers, two-variable linear relations, multi-step one variable linear equations, special proportional reasoning, probability and statistics and financial literacy. The focus will be on preparation for Grade 10 Mathematics.

## Science

Students will work and reflect on the skills of questioning and predicting, planning and conducting as well as processing and analyzing data and information as they explore asexual reproduction, sexual reproduction, element properties of the periodic table, circuits, voltage, current and resistance, the effects of solar radiation, matter cycles within biotic and abiotic components of ecosystem, sustainability of systems and First Peoples' principles of interconnectedness.

The focus will be on preparation for Grade 10 Science.

## Social Studies

Students will work and reflect on the skills of inquiry; asking questions; gathering, interpreting, and analyzing ideas; and communicate findings and decisions as they explore political, social economic and technological revolutions, the continuing effects of imperialism and colonialism, global demographic shifts, nationalism and the development of modern nation-states, local, regional and global conflicts, discriminatory wrongs and physiographic features of Canada.

The focus will be on preparation for Grade 10 Social Studies.

## English Language Arts

Students will use oral, written, visual, and digital texts, to study the form, function and genre of story / text including features of written texts, literary elements, literary and rhetorical devices and elements of non-fictional texts; reading, oral, written and metacognitive strategies; and language features including elements of style usage.

The focus will be on preparation for grade 10 English Language Arts.

## Art Education

Students will work and reflect on the skills of exploring and creating, reasoning and reflecting, communicating and documenting, connecting and expanding and exploring and creating as they explore music elements, principles, techniques in its various forms; use of visual elements, principles and image design strategies, personal narrative as a means of representation, role of the artist in representing world-views and ethics. The focus will be on preparation for senior level art courses.

## Core French

Students will use a variety of strategies to construct meaning, narrate a story orally and in writing, participate in short and simple conversations. Express themselves in past, present and future timeframes, and describe elements of Francophone culture. The focus will be on preparation for Grade 10 Core French.

## Physical Education

Students will demonstrate competence in physical literacy including fundamental movements and strategies in different physical activities, various sporting activities, strategies for healthy and active living, including participation in daily physical activities to enhance and maintain health components of fitness, proposing of healthy choices and identification and application of strategies to pursue a healthy lifestyle. The focus will be on preparation for senior level Physical Education courses.

## Drama

The Equinox program will focus on examining the connections between core subject areas within a lens of social justice. Key concepts include justice and equality, community engagement, current global issues, sustainability, leadership projects, civic engagement, cultural understanding and peace building.



# ENGLISH LANGUAGE LEARNING (ELL)

## ENGLISH LANGUAGE LEARNING

#650

English Language Learning classes are provided to develop students' English language acquisition. They are helped to become proficient in listening, speaking, reading and writing English so that they can better function in regular academic and elective classes. Canadian cultural integration is emphasized as well as preparation for integration into Grade 8-12 courses. Students are placed in appropriate levels (Beginner, Intermediate, or Advanced) dependent upon the results of an oral interview, a writing sample, a listening test, and a reading test. These are non-credit courses.

## ENGLISH LANGUAGE DEVELOPMENT

#646

This course is designed to be a bridge between English Language Learning (ELL) and content course English 10. The principal focus of this course is on the oral and written development of the English language required to discuss literature and for literary analysis. Students will further their development of English grammar, conventions and cultural contexts required for writing about English literature, both prose and poetry. (Usually overall ELL level 3.5)

**PREREQUISITE:** Completion of the ELL program based on teacher recommendation.

Course completion leads to English 10, 11, and 12.

This is a credit course that can be used for graduation.

## ENGLISH LANGUAGE LITERACY

#657

This course builds upon the English language skills learned in Beginner and Intermediate level ELL classes (reading, writing, speaking and listening). This course is designed to develop English language skills (reading, writing, speaking and listening), cultural awareness and learning strategies and is intended to be a bridge between ELL classes and ELL Learning Strategies which leads to English 8, English 9 or English Dynamics

This is a non-credit course.

## ENGLISH LANGUAGE LEARNING STRATEGIES

#648

This course focuses on the essential language skills learners need to function in daily life and the workplace. Students will participate in a variety of reading, writing, speaking, viewing and listening activities in the areas of informational communications, mass media and literary communications. The main focus of literature study is enjoyment rather than analysis. (Usually overall ELL level 2.5, or 3).

**PREREQUISITE:** One year in the ELL program and or based on teacher recommendation.

Course completion leads to English 8, English 9 or English Dynamics 10. This is a non-credit course.

## ENGLISH LANGUAGE LEARNING CANADIANA

#661

This course is designed for Beginner and Intermediate ELL students to provide an introductory overview of Canadian geography, people, history, and government. As well, it provides an opportunity to develop English language skills and the vocabulary and academic skills related to the social sciences.

Offered to ELL students with an overall ELL level of 1.5. This is a non-credit course.

## IDS 10A (Social Studies 10) (Transitional) LD

#312

This course is designed to build the foundations necessary for entry into Social Studies 11. This includes skills and content and vocabulary/language of Canadian geography and history. The course will provide a background including: peoples, places, events, values and traditions, as well as the overall academic vocabulary, skills, and analysis required to be successful in this discipline. (Usually overall ELL level 3.5)

**PREREQUISITE:** Completion of the ELL program based on teacher recommendation.

Course completion leads to Social Studies 11.

This is a credit course that can be used for graduation.

## ELL MATH / SCIENCE

#660

This course introduces English Language Learners to the background, language and concepts of Math and Science to approximately a grade 9 level. The purpose of this course is to prepare students for grade level Math and Science courses by developing the English Language Skills (writing, reading, oral and listening) connected to the disciplines of Math and Science, with a particular focus on the academic vocabulary needed.

Offered to ELL students with an overall ELL level of 1.5 to 2.5. A non-credit course.





# HOME ECONOMICS

---

## CULINARY ARTS: CAFETERIA 10

#399

If you enjoy cooking than this is the course for you. This course offers an introduction to cooking for the Culinary Arts Industry. This will provide you an excellent opportunity to gain experience for an entry level position in the food industry. Students will get to work in all stations in the kitchen and one day a week for lunch service. Cafeteria is a practical course and attendance affects class marks. This course offers Food Safe Level One Certificate. This course meets the suggested requirements for Culinary Arts 11 and 12.

***A fee may be charged for this course.***

## CULINARY ARTS: ENTRY LEVEL COOK 12

#596

**Offered in non apprenticeship years only. \*Open to grade 11 and 12 students only.**

If you have ever thought that you would like to become a Chef or you love to cook and experiment with food, than this is the course for you. Students will be learning about cooking for the fast paced Culinary Arts industry. In this course you will build on the skills gained in Culinary Arts: Cafeteria 10, 11 or it is strongly recommended that students have previous courses in food preparation, or permission from the Teaching Chef Instructor prior to entry.

This course is strongly recommended as a prerequisite for the SSA Professional Cook ACE-IT program.

***A fee may be charged for this course.***

## CULINARY ARTS: CAFETERIA 11 & 12

#499 / #595

If you like cooking than this is the course for you. This course builds on skills from Culinary Arts Cafeteria 10.

This will provide you an excellent opportunity to gain experience for an entry level position in the food industry. Students will get to work in all stations in the kitchen and one day a week for lunch service. Cafeteria is a practical course and attendance affects class marks. This course offers Food Safe Level One Certificate.

This course meets the suggested requirements for Culinary Arts Entry Level Cook 1 and the Culinary Arts Apprenticeship Program.

***A fee may be charged for this course.***

## FAMILY STUDIES 11

#493

Family Studies is a class that teaches students how to successfully manage "life". Critical life skills, such as communication and identifying personal values and goals, will be learned and practiced throughout the course. Family Studies 11 (fall semester) consists of two modules: 'Child Development and Parenting' and 'Families in Society'. The "Baby Think It Over" program is included in this course.

***A fee may be charged for this course.***

## FAMILY STUDIES 12

#593

Family Studies is a class that teaches students how to successfully manage "life". Critical life skills, such as communication and identifying personal values and goals, will be learned and practiced throughout the course. Family Studies 12 (spring semester) consists of two modules: 'Interpersonal and Family Relationships' and 'Housing and Environment'. (FAMILY STUDIES 11 is recommended)

***A fee may be charged for this course.***

## FIBRE ARTS 11 see STUDIO ARTS 11: FABRIC AND FIBRE

## FOODS & NUTRITION 9

#266

Do you enjoy preparing, testing, and tasting a variety of foods? Come and join us as we learn about food, as well as organizational and teamwork skills, methods of food preparation, sanitation, and the selection of foods based on the principles of nutrition. ***A fee may be charged for this course.***

## FOODS & NUTRITION 11

#492

***\*open to grade 10, 11 and 12 students***

Tired of eating the same thing over and over? Sharpen your skills as you expand your culinary horizons, and prepare for independent living. Students will travel the globe with exposure to diverse food, and more advanced food preparation techniques. It is recommended that students have previous food experience.

***A fee may be charged for this course.***

## FOODS & NUTRITION 11

#492

***\*open to grade 10, 11 and 12 students***

Tired of eating the same thing over and over? Sharpen your skills as you expand your culinary horizons, and prepare for independent living. Students will travel the globe with exposure to diverse food, and more advanced food preparation techniques. It is recommended that students have previous food experience.

***A fee may be charged for this course.***



# HOME ECONOMICS

---

## TEXTILES 10

#388

This course ranges from basic to semi-advanced construction techniques. Three to five projects will be constructed; depending on student's interests, skill level, experience and project complexity. Projects will emphasize a variety of skills such as alterations, specific sewing techniques (zippers, collars, buttonholes, etc.) and independent work. Recycling materials and making effective use of resources is strongly encouraged. Fabric Arts such as Embroidery, Cross-stitch, Weaving, Quilting and Appliqué may be included in garments or other textile items. Basic materials necessary to meet the required learning outcomes will be provided. Individual projects, chosen to enrich the course, will be the student's responsibility. (\*open to grade 9 and 10 students)

***A fee may be charged for this course.***

## TEXTILES 11

#488

Are you interested in sewing? An exciting opportunity awaits you! Learn basic to semi-advanced construction techniques. Three to five projects will be constructed; depending on student's interests, skill level, experience and project complexity. Projects will emphasize a variety of skills such as alterations, specific sewing techniques (zippers, collars, buttonholes, etc.) and independent work. Recycling materials and making effective use of resources is strongly encouraged. Fabric Arts such as Embroidery, Cross-stitch, Weaving, Quilting and Appliqué may be included in garments or other textile items. Come and enjoy creating new things and maybe develop a lifelong hobby. Basic materials necessary to meet the required learning outcomes will be provided. Individual projects, chosen to enrich the course, will be the student's responsibility. Must be self motivated.

While helpful, no prior sewing experience is required.

***A fee may be charged for this course.***

## TEXTILES 12

#599

Can you sew independently? Are you self motivated and wanting to build your sewing skills? An exciting opportunity awaits you! Review basic construction techniques and learn more advanced skills. Three to five projects will be constructed; depending on student's interests, skill level, experience and project complexity. Projects will emphasize a variety of skills such as alterations, specific sewing techniques (zippers, collars, buttonholes, etc.) and independent work. Recycling materials and making effective use of resources is strongly encouraged. Fabric Arts such as Embroidery, Cross-stitch, Weaving, Quilting and Appliqué may be included in garments or other textile items. Come and enjoy creating new things and maybe develop a lifelong hobby. Basic materials necessary to meet the required learning outcomes will be provided. Individual projects, chosen to enrich the course, will be the student's responsibility. Previous Textiles courses strongly recommended. Independent sewing and self motivation are essential for success in Textiles 12.

***A fee may be charged for this course.***



# NWSS PRE-IB PROGRAMME

## **ENGLISH 9 HONOURS (NWSS Pre-IB)**

**#207**

This is an intensive course designed for students intending to pursue the International Baccalaureate Programme. This is a literature-based course. Students will study a variety of genres: short stories, novels, one Shakespeare play and one other, and poetry. The literature will be a combination of International, Canadian, and Aboriginal. Class discussions and essays will analyze techniques which develop meaning in a text. It will include the writing of journals, essays and notes as a literary commentary and responding to ideas in the literature. Formal essays will be revised and polished. There will be oral reports, and exposés on literature. The analysis of sentence structure and grammar, time management, homework and study skills will be taught.

## **ENGLISH 10 HONOURS (NWSS Pre-IB)**

**#307**

This is an intensive courses designed for students intending to pursue the International Baccalaureate program. This is a literature-based course. As in Grade 9, students will study a variety of genres, but there will be more emphasis on World Literature. Critical awareness and appreciation of literary structures, styles and voices will be emphasized. The writing will be expository and creative, and consist of commentaries, exercises in style, informal journal writing, and formal essays. The editing of one's own work and peer-editing will be required in the writing process.

## **FRENCH 9 & 10 HONOURS (NWSS Pre-IB)**

**#243 / #343**

These are intensive courses designed for students intending to pursue the International Baccalaureate program. The courses are based on the French 9 and 10 programs, however greater emphasis is put on communication and grammar exactitude and are delivered at a faster pace. Students are asked to read and interpret French texts, listen and respond to spoken French, and communicate effectively in French (both orally and in writing).

**PREREQUISITE:** French 8 and French 9 or French 9 Honours.

## **MATHEMATICS 9 HONOURS (NWSS Pre-IB)**

**#227**

This course is a preparation for those intending to pursue the International Baccalaureate Programme.

Topics are similar to those in Principles of Math 9 and 10, but studied to a greater depth with enrichment and acceleration. Critical thinking and problem solving will be emphasized.

Additional topics necessary for success in the IB Math program (such as: probability, formal proofs in coordinate geometry, Pythagorean theorem applications, and history of Mathematics) will be incorporated. IB Math questioning techniques and notation will be used and practiced in preparation for the IB program.

## **MATHEMATICS 10 HONOURS (NWSS Pre-IB)**

**#327**

This course is a preparation for those intending to pursue the International Baccalaureate program. Topics are similar to those in Math 10 and 11, but studied to a greater depth with enrichment of most topics. Critical thinking and problem solving will be emphasized.

Some topics will be emphasized differently, additional topics necessary for success in the IB Math program (such as permutations and combinations, vectors, and matrices) will be incorporated, and the pace will be accelerated. IB Math questioning techniques and notation will be used and practiced in preparation for the IB Math exam. After successful completion of this course, students who want to prepare for the Standard Level Mathematics course will enter a Standard Level IB course (IB Math Studies or IB Math Methods)

## **RESEARCH IN MOTION 9 (NWSS Pre-IB)**

**#247**

This is a course for entrance into the Pre-International Baccalaureate Programme. Students will be introduced to: research methods (Internet, Library), networked computer file systems, various presentation media (World Wide Web, PowerPoint, computer graphics), and computer tools for learning and study (word processing and spreadsheets). The course is highly integrated with other NWSS Pre-IB courses.

All instruction is on the Windows 9X operating system. No previous computer experience is necessary.

## **SCIENCES NATURELLES 9**

**#231**

Ce cours vise à développer un vocabulaire et une culture scientifique. Les laboratoires et les projets sont une partie importante du cours développant une expérience pratique de la science. La chimie, la physique, la biologie humaine et l'espace sont les quatre unités étudiées dans le cours.

## **SCIENCE 9 & 10 HONOURS (NWSS Pre-IB)**

**#237 / #337**

These are intensive courses designed for students intending to pursue the International Baccalaureate (IB) Diploma Programme. NWSS Pre-International Baccalaureate Science 9 and 10 will follow the Science 9 and 10 curriculum for the province of British Columbia with additional material added and the depth of study increased. Honours courses require students to work at a faster pace to accommodate enrichment activities and topics.



# NWSS PRE-IB PROGRAMME

## SOCIAL STUDIES 9 HONOURS (NWSS Pre-IB)

#215

This is an intensive course designed for students intending to pursue the International Baccalaureate Programme. This course offers an enriched experience of the regular Social Studies 9 course and part of the Social Studies 10 course. This course will focus on: the expansion and development of European Nationalism, Imperialism, Industrialization and Revolution in 17<sup>th</sup> and 19<sup>th</sup> Centuries, with some emphasis on Canadian reactions to it. Topics include: Native settlement and colonization, European influence in early Canada, conflict and revolution in Europe, responsible government, and Confederation.

## SOCIAL STUDIES 10 HONOURS (NWSS Pre-IB)

#315

This course is a continuation of Social Studies 9 Honours course. This course aims to finish the Social Studies 10 content started in Social Studies 9 Honours and to cover the Social Studies 11 content.

Topics to be covered include:

- Canada-US relations
- BC Economic Geography
- 20<sup>th</sup> Century Global conflicts
- Government in Canada *and*
- Geography

Students will write the Social Studies 11 government exam worth 20% of their Social Studies 11 grade.

**PREREQUISITE:** Social Studies 9 Honours

## IB COURSE CODES

Grade 11

Course	Standard Level	Higher Level	"Z" Block
English	2400	2401	2502
French	2440	2441	
History	2409	2410	2511
Psychology	2418	2419	
Biology	2428	2429	
Chemistry	2431	2432	
Physics	2434	2435	
Math	2414	2415	

Theory of Knowledge	2499		
CAS	2470		
Extended Essay	2405		

Grade 12

Course	Standard Level	Higher Level	"Z" Block
English	2500	2501	
French	2540	2541	
History	2509	2510	
Psychology	2518	2519	2520
Biology	2530	2529	2528
Chemistry	2531	2532	2533
Physics	2534	2535	2536
Math	2514	2515	2516

Theory of Knowledge	2599		
CAS	2570		
Extended Essay	2505		



# INTERNATIONAL BACCALAUREATE

## IB Mission Statement

The International Baccalaureate aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect. To this end the organization works with schools, governments and international organizations to develop challenging programs of international education and rigorous assessment. These programs encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right.

## What is IB?

The Diploma Programme (DP) is designed for grade 11 & 12 students by the International Baccalaureate Organization (IBO). It is a two-year program that prepares students for the rigours of university study.

Most universities grant advanced credit for IB Courses. Some grant full first-year standing.

## More than just hard work: work smarter... work for the future

The Diploma Programme makes plentiful use of discussions, debates, oral presentations, written assignments and collaboration. These skills are key elements in helping students acquire the skills necessary for civic engagement and effective advocacy in the 21<sup>st</sup> century.

## IB BIOLOGY 11/12

#2430 / #2530 / #2429 // #2528 / #2529

IB Biology 11 is a survey of all the human body systems including a dissection of the fetal pig.

The course ends with the study of ecology. IB Biology 12 begins with the biochemistry of micro molecules, metabolic pathways and the roles of DNA in protein synthesis, genetics, and evolution. The course ends with the IB examinations. **A lab fee may be charged for this course.**

## IB CHEMISTRY 11 / IB CHEMISTRY 12

# 2431 / #2432 / #2531 / #2532 / #2533

"The significantly revised IB DP Chemistry curriculum arms students with academic theoretical knowledge along with practical and investigational skills, giving them an insight into the analysis, collaboration, and communication that occurs in the global scientific community. The two-year course, offered at the standard and higher levels, includes Measurement and Stoichiometry, Atomic Theory and Periodicity, Bonding and Energetics, Kinetics and Equilibrium, Acid-Base chemistry, Redox processes, and Organic chemistry at the core, along with Biochemistry as the chosen option. Students are assessed internally via an investigative, experimental research paper, and externally in the final IB exams in May of the Grade 12 year." **A lab fee may be charged for this course.**

## IB ENGLISH 11 / IB ENGLISH 12

#2400 / #2401 / #2402 / #2500 / #2501 / #2502

The focus of IB English is the study and appreciation of literary achievements of our culture and the cultures of other societies. Students will develop skills in literary criticism, writing, and oral presentation through a study of World Literature texts in translation, poetry, novels, drama, and non-fiction texts written in English. Students will complete a number of creative and analytical assignments, including written examination of a work in detail, and an essay exam. IB English 11 & 12 aims to promote an international perspective and understanding of cultures by comparing works of different societies and times, as well as a life-long interest in world literature.

## IB FRENCH 11 / IB FRENCH 12

#2440 / #2441 / #2540 / #2541

These courses prepare the students for the International Baccalaureate Diploma or Certificate Examination.

The learning of a second language is strongly linked to the IB course Theory of Knowledge as well as to developing receptive, productive and interactive skills in the French language. With this in mind, students enrolled in IB French 11/12 will:

- Learn further about the elements of the French language (morphology, grammar, syntax)
- Develop an ease in responding (in both oral and written format) to the language and its subtleties in various situations (vocabulary, idioms and expressions, phonetics)
- Acquire an awareness of the state of the French language in today's world as well as how languages and cultures are bonded (accents and dialects, linguistic ethic)

**PREREQUISITE:** French Honours 9 & 10

## IB HISTORY 11 / IB HISTORY 12

# 2409 / #2410 / #2509 / #2510 / #2511

IB History 11/12 offers two levels (Standard and Higher) of advanced study in Twentieth Century World History Prescribed Subject of study: The Move to Global War.

20<sup>th</sup> Century World History Topics: Authoritarian States in the 20<sup>th</sup> Century, Causes and Effects of 20<sup>th</sup> Century Wars.

Higher Level students are also required to study one regional option:

- Europe and the First World War (1871-1918),
- European States in the Interwar Years (1918-1939), and
- Versailles to Berlin: Diplomacy in Europe (1919-1945)

Since history involves close textual analysis and critical thinking, students will discuss and debate issues, analyze documents, and write essays (as preparation for the IB examinations in the grade 12 year).

Standard level students write **TWO** external exams in May of their grade 12 year, whereas higher level students write **THREE** external exams at the end of grade 12.

**NOTE:** Higher level students must attend a weekly 1.25 hour seminar in their grade 11 year.





# INTERNATIONAL BACCALAUREATE

## **IB MATHEMATICS 11 SL / IB MATHEMATICS 12 SL**

**#2413 / #2414 / #2513 / #2514**

This course offers a vigorous approach to topics included in Foundations and Pre-Calculus Math 11 and 12 as well as additional math topics prescribed in the IB syllabus, such as calculus, vectors, probability and statistics. Critical thinking and problem solving will be emphasized. IB questioning techniques and notation will be used and practiced in preparation for the IB Math exam. An internal assessment assignment will also be included

## **IB MATHEMATICS 11 HL / IB MATHEMATICS 12 HL**

**#2415 / #2515 / #2516**

This course offers an extremely vigorous approach to topics in Foundations and Pre-Calculus Math 11 and 12 as well as additional math topics prescribed in the IB syllabus, such as probability and statistics, vectors, calculus, series and differential equations, complex numbers, and proof, among others. Critical thinking and problem solving will be emphasized. IB questioning techniques and notation will be used and practiced in preparation for the IB Math exam. (An internal assessment will also be included in the final assessment). This is an extremely difficult course and should only be attempted by those with a very strong foundation in mathematics.

## **IB PHYSICS (Standard Level) 11/12**

**#2434 / #2435 / #2534 / #2535 / #2536**

The IB Physics Syllabus is a combination of the curriculum from the province of British Columbia for Physics 12 and the IB Course Syllabus. The objectives will concentrate on the laws of physics, experimental skills, and the social and historical aspects of physics as an evolving body of human knowledge about nature. Topics include: Measurements and Uncertainties, Mechanics, Electricity and Magnetism, Thermal Physics, Waves, Atomic, Nuclear and Quantum Physics, Energy Production and Astrophysics. While the skills and activities are common to students at both Standard and Higher Level, the distinction between SL and HL is one of breadth and depth. Previous exposure to formal specific education (Physics 11), a very good understanding of the concepts covered by the topics of Waves, Geometrical Optics, Kinematics, Dynamics, Energy, Nuclear Physics, and Special Relativity, along with the required skills to apply these concepts in theoretical and practical work is necessary in order to be successful in the IB Physics course.

## **IB PSYCHOLOGY (Standard Level & Higher Level) 11/12**

**#2418 / #2419 / #2518 / #2519 / #2520**

Offered at the standard level, IB Psychology SL gives students a broad understanding of the subject and its major theoretical approaches. At both levels, the course guides students through the study of human behaviour through the lens of the biological, cognitive, and socio-cultural perspectives. Additionally, IB Psychology HL students study two of five and SL students one of five optional psychology topics: abnormal, developmental, health, human relations, and sports. This course introduces students to qualitative and quantitative research methods and at the higher level to probability and statistics including the Chi-Square test, the Mann-Whitney  $U$  test, and the Wilcoxon Signed-Ranks test, among others. The awareness of ethical issues in research and an emphasis on culture as it applies to human behaviour permeate IB Psychology.

## **IB THEORY OF KNOWLEDGE (TOK) 11/12**

**#2499 / #2599**

This course is for students in the International Baccalaureate Programme. Students will be introduced to the fundamental questions of what we know, how we know it, and how we determine its value. Topics will include knowers: ways of knowing (emotion, reason, perception & language); and areas of knowledge (natural sciences, human sciences, mathematics, ethics, history, the arts & political thought).

Students will do regular readings and viewings from a variety of sources, and will be required to reflect upon, discuss, and write about their ideas. Evaluation will be based on written and oral assignments.



# LANGUAGES

## **EDUCATION CIVIQUE 11**

**#404**

In this course, students will be analyzing social responsibility in the community, in the province, in the country, and in the world. Topics include: roles of individuals in society, culture, language, and community, environment and geography, principles of democracy, political ideologies and international issues. Students are required to take a position and implement a plan of action on a relevant civic issue. All students must write a provincial examination worth 20% of their grade. Taught in French.

This course meets the Social Studies 11 requirements.

## **FRANÇAIS LANGUE 9**

**#245**

Ce cours poursuit les objectifs du développement de la communication en offrant une étude plus approfondie de chacune des quatre habiletés langagières. Le cours amènera l'élève à développer sa compréhension de la nouvelle, de la légende et de du roman d'aventure en s'exerçant à produire des résumés d'événements et des critiques.

**PRÉREQUIS:** Français Langue 8.

(This course aims at developing communication with a more profound study of the principles of each aspect of the four skills: reading, writing, listening and speaking. The course will lead the students to develop a deeper comprehension of the short story, the legend, and the adventure novel by producing summaries of events and critiques.)

**PRÉREQUISITE:** Français Langue 8

## **FRANÇAIS LANGUE 10**

**#345**

Ce cours représente la première étape du perfectionnement du mécanisme de la lecture et de l'écriture.

La syntaxe de la langue y est étudiée en profondeur. Ce cours a pour but d'incorporer les éléments grammaticaux à l'usage de la langue par l'analyse du roman et du poème et par la production de dissertations.

**PRÉREQUIS:** Français Langue 9

(This course presents the first step in perfecting the mechanisms of reading and writing, therefore the syntax of the language will be the subject of in-depth study. The course will aim, as the previous courses did, to incorporate grammatical elements into usage of the language with analysis of the novel and the poem and the writing of essays.)

## **FRANÇAIS LANGUE 11**

**#445**

Ce cours continuera le processus de perfectionnement de la lecture et de l'écriture ainsi que de la production orale et de l'écoute.

**PRÉREQUIS:** Français Langue 10

(This course will continue the process of perfecting reading and writing as well as the oral and auditory skills.)

## **FRANÇAIS LANGUE 12**

**#545**

Ce cours poursuit le processus de perfectionnement des quatre habiletés langagières.

L'élève se prépare pour l'examen provincial de Français Langue 12. Dans le but de préparer l'élève pour l'examen provincial, ce cours accorde une importance particulière à l'exactitude grammaticale et syntaxique ainsi qu'à la connaissance du lexique de la langue française, à l'écrit comme à l'oral.

**PRÉREQUIS:** Français Langue 11 (This course will be a continuation of the process of perfecting the four skills: reading, writing, listening and speaking. Students will be prepared to write the Ministry of Education's Français Langue 12 provincial exam.)

## **FRENCH 9**

**#240**

Students will develop a comprehension of French through the use of a program which stresses the communicative approach. Through group and partner activities the students learn to communicate using the target language. Students will develop skills in listening, speaking, reading and writing. This programme will also stimulate an interest in, and provide knowledge of, the cultures of Canada, France, and other French-speaking countries.

**PRÉREQUISITE:** French 8

## **FRENCH 9 & 10 HONOURS (NWSS Pre-IB)**

**#243 / #343**

These are intensive courses designed for students intending to pursue the International Baccalaureate program. The courses are based on the French 9 and 10 programs, however greater emphasis is put on communication and grammar exactitude and are delivered at a faster pace. Students are asked to read and interpret French texts, listen and respond to spoken French, and communicate effectively in French (both orally and in writing).

**PRÉREQUISITE:** French 8 and French 9 or French 9 Honours.



# LANGUAGES

## FRENCH 10

#340

This is a continuation of the French 9 Program. Students will learn to read and listen for global comprehension. Through role-playing, real-life application and creative writing, students will become more competent with the recurring themes in this program. Students will use the French language in a variety of individual, partner and group activities.

**PREREQUISITE:** French 9

## FRENCH 11

#440

This is a continuation of the French 10 Program. Students will continue to work on perfecting their performance in the four skill areas: listening, speaking, reading and writing. There will be a greater emphasis on effective communication through the use of higher level vocabulary in more advanced themes. The course will focus more on the mechanics of the language. Closer attention to agreements with past forms, use of multiple pronouns and more mature composition styles will be emphasized.

**PREREQUISITE:** French 10

## FRENCH 12

#540

This is a continuation of the French 11 Program. In this subject accuracy is emphasized in syntax and composition. The principles of communication and composition are taught in greater detail. The student will be able to analyze a literary piece such as a short story, play or poem.

**PREREQUISITE:** French 11. (A "C" standing or better is strongly recommended)

## IB FRENCH 11 / IB FRENCH 12

#2440 / #2540

These courses prepare the students for the International Baccalaureate Diploma or Certificate Examination.

The learning of a second language is strongly linked to the IB course Theory of Knowledge as well as to developing receptive, productive and interactive skills in the French language. With this in mind, students enrolled in IB French 11/12 will:

- Learn further about the elements of the French language (morphology, grammar, syntax)
- Develop an ease in responding (in both oral and written format) to the language and its subtleties in various situations (vocabulary, idioms and expressions, phonetics)
- Acquire an awareness of the state of the French language in today's world as well as how languages and cultures are bonded (accents and dialects, linguistic ethic)

**PREREQUISITE:** French Honours 9 & 10

## JAPANESE 9

#246

Japanese 9 is an introduction to the Japanese language and culture. Through a variety of activities, students will develop speaking, listening, reading and writing skills in Japanese. Cross cultural situations, projects, anime, writing in *hiragana* and *katakana* with calligraphy brushes, Japanese computing, and other creative works will enrich the student's appreciation of learning this engaging and fun language.

## JAPANESE 10

#346

This course is a continuation of Japanese 9 where students build on individual language skills and will develop an improved comprehension of Japanese. New themes will be introduced with more depth and enrichment. By the end of the course, students will be fluent, comfortable and confident in reading and writing *hiragana*, *katakana* and some *kanji*. Using technology will be an additional component of this course.

**PREREQUISITE:** Japanese 9

## INTRODUCTORY JAPANESE 11

#446

Intro Japanese 11 is an **intensive** Japanese class taught at an **accelerated pace** that combines in **one** semester curricula normally covered in Japanese 9 and 10. A good work ethic is required. Students will enjoy learning a new script! They will master hiragana and Katakana and understand the use of Kanji (Chinese characters) in the Japanese writing system. Everyone will be starting a new language. Japan has a rich culture, and frequent cultural activities will enrich students' experiences with studying Japanese. The instructor will use calligraphy brushes as well as computer technology to enhance students' skills while learning Japanese.

**This course is not for native speakers.** Students should be in grade 10, 11 or 12.



# LANGUAGES

---

## JAPANESE 11

#447

Students will continue to work on perfecting their performance in the Japanese language. Confidence will come in communication skills and daily conversation. Building on these skills with an emphasis towards mastery, students will become familiar with vocabulary, common expressions, and sentence patterns. Students will begin to show initiative and development in their understanding of the Japanese language and culture. A major travel project in the language in *hiragana*, *katakana* and *kanji*, as well as computer literacy will enhance the development of the Japanese language student.

**PREREQUISITE:** Japanese 10 or Intro Japanese 11 (This course fulfills the language requirement for UBC)

## JAPANESE 12

#546

This course will further develop the student's skills in the Japanese language. A major project on "kamishibai" will be enjoyed and presented by all students. More emphasis on writing and conversational Japanese along with rich cultural experiences will be presented in this course.

**PREREQUISITE:** Japanese 11

This course is **not** for native speakers. Native speakers may take Peer Tutoring credit to help in the class.

Native speakers are encouraged to take the Greater Vancouver challenge exam to receive credit.

## JUSTICE SOCIALE 12

#557

Offert pour la première fois en français en 2010-2011 au niveau provincial, ainsi qu'à NWSS, le cours « Justice sociale 12 » vise la compréhension de l'injustice et l'action nécessaire pour affronter celle-ci. Les élèves seront amenés à comprendre les causes de l'oppression et à réfléchir de manière critique aux causes des diverses formes de discrimination, à l'échelle locale, nationale et mondiale. Nous examinerons également la signification d'un comportement personnel « juste » d'un point de vue éthique, ainsi que des approches individuelles et organisationnelles permettant de confronter l'injustice. Ce cours comprend des projets incitant les participants à agir et à se développer en tant que citoyens responsables.

This course provides an excellent opportunity for French Immersion students to continue the use of their French language skills at the senior level. See Social Justice 12 for the English version of the course description.

**COURSE PRÉREQUIS :** Sciences Humaines 11 (60%)

## PUNJABI 9

#244

Punjabi 9 is an introductory course which focuses on effective communication. Through a variety of activities, speaking, listening, reading and writing skills will be developed. Students will develop a better understanding of different aspects of the culture.

## PUNJABI 11: INTRODUCTORY

#444

Intro Punjabi 11 is a provincially prescribed curriculum. This is an intense course designed to provide students with an equivalent preparation of Punjabi 5 to 10. Students will acquire linguistic skills to progress to higher levels. Students will develop interpersonal communication through speaking, listening, reading and writing activities. They will respond to and produce creative works, and develop a better understanding of different aspects of the culture.

## PUNJABI 11

#449

This course aims to develop student's skills in listening, speaking, reading and writing at the intermediate level. A major focus will be on further developing students' communicational skills in written and oral Punjabi.

Punjabi culture, civilization and literature will also be addressed in the course.

**PREREQUISITE:** Introductory Punjabi 11.

## PUNJABI 12

#544

This course is an extension of Punjabi 11. Students will continue to build upon the grammar learned in Punjabi 11. There will be a greater emphasis on reading and writing Punjabi through analysis of various authentic documents and other written works.

**PREREQUISITE:** Punjabi 11.



# LANGUAGES

---

## SPANISH 9

#241

Spanish 9 is an introductory course which focuses on effective communication. Through a variety of activities, speaking, listening, reading and writing skills will be developed. Cultural activities will examine life in the countries of the Spanish-speaking world.

There is no pre-requisite for Spanish 9.

**NOTE:** This course is not intended for native speakers of Spanish.

## SPANISH 10

#341

Spanish 10 builds on the concepts taught in Spanish

9. The course aims to develop further the student's ability to communicate in Spanish.

This course continues the exploration of the cultures of the Spanish-speaking world.

**PREREQUISITE** for Spanish 10 is Spanish 9.

**NOTE:** This course is not intended for native speakers of Spanish.

## SPANISH 11 - INTENSIVE

#441

Intensive Spanish is an **accelerated course** that combines in **one** semester curricula normally covered in Spanish 9 and Spanish 10. It aims to develop reading, writing, listening and speaking skills. The emphasis in this program is on effective communication in Spanish. This course is designed to provide the student with awareness and appreciation of Hispanic cultures and traditions. As this course is **very fast paced**, a good work ethic is required for good results in this course.

**NO PREREQUISITE** for Intensive Spanish.

**NOTE:** This course is not intended for native speakers of Spanish.

It is open to students in Grade 10, 11, and 12 only.

## SPANISH 11

#448

This course aims to develop the student's skills in listening, speaking, reading and writing. Students will interact with greater confidence in Spanish. Students will compare, contrast, and respond to creative works and contemporary issues from the Hispanic world. Successful completion of Spanish 11 provides the minimum language entrance requirement for most universities.

Note: this course is not intended for students whose first language is Spanish.

**PREREQUISITE** for Spanish 11 is Intensive Spanish or Spanish 10.

**Native speakers are encouraged to write the challenge exam for Spanish 11 credit.**

## SPANISH 12

#547

This course will further develop the student's skills in listening, speaking, reading and writing.

More emphasis will be placed on Hispanic cultures, civilization and literature.

**NOTE:** this course is not intended for students whose first language is Spanish.

**PREREQUISITE** for Spanish 12 is Spanish 11.

**Native speakers are encouraged to write the challenge exam for Spanish 12 credit.**



# LEADERSHIP DEVELOPMENT

## **CONFLICT RESOLUTION 11 Grades 9-12**

**#491**

Are you thinking of going into careers involving helping others, education, health care, business, entrepreneurship, law enforcement, or other service industries? Then this is the course for you! This is an introduction to collaborative conflict resolution skills. Topics include specific communication skills, the dynamics of conflict, anger management, understanding and handling emotions, and the negotiation model as a process for handling disputes. This is an interactive course that includes team building, discussion and role play activities in a safe and supportive learning environment. Students are able to obtain dual credit for this course in the Justice Institute of BC's Centre for Conflict Resolution certificate program. The course credit assigned depends on the grade the student is in; for example, a grade 11 student would normally get credit for Conflict Resolution 11.

**PREREQUISITE:** NONE

## **CONFLICT RESOLUTION ADVANCED Grades 10-12**

**#498**

This course is the second level of three offered in the NWSS Conflict Resolution Program. Topics covered in the level one course (Conflict Resolution) are extended and further integrated into the students' repertoire. Students enhance their skills in how to have sticky conversations and tap into the potential creative energy that lies in conflict to create longer-term solutions that preserve relationships. As well, students will learn the mediation model of as a process for handling third-party conflicts. Dual credit for this course is available at the Justice Institute of BC.

**PREREQUISITE:** Conflict Resolution

## **CONFLICT RESOLUTION LEADERSHIP Grades 11-12**

**#598**

This course is the most advanced course offered in the NWSS Conflict Resolution Program. Topics discussed in the level two course are extended and further integrated into the students' repertoire. An added component to this course is the study of selected topics in mediation; namely, dealing with intense emotions; shifting from positions to interests; mediating with groups; advanced skill development; and legal and ethical considerations to name a few. Students will also develop their leadership and coaching skills and study the emerging literature in mediation. Dual credit for this course is available at the Justice Institute of BC.

**PREREQUISITE:** Conflict Resolution Advanced

## **LEADERSHIP 9, 10, 11**

**#192 / #292 / #392 / #490**

Leadership is an individualized program for students who are interested in assuming leadership roles in the NWSS Student Leadership Council. This course provides students the opportunity to become active citizens in the school community. Students will develop skills in the areas of organization, communication and team-building. Students taking this course must have the initiative to plan and implement activities for others in the school and work with other agencies in the community. Due to the nature of this "z" block course which meets regularly at lunch time in Room 222 throughout the year, students must be able to attend all lunch time meetings and commit to 60 service hours at lunch and after school.

**PREREQUISITE:** Admission & final registration is by the instructor's recommendation only. An information and application form is available from the counsellors.

## **PEER TUTORING 11**

**#471**

This course is intended to provide peer tutors with an opportunity to develop skills for helping other students achieve success - appreciation for different learning styles, and the development of leadership, goal setting, interpersonal, organizational skills. In doing so, peer tutors often find they also improve their own study skills, gain a better understanding of the subject material, increase self-concept and develop high self-esteem. Peer Tutors are placed in a classroom where they work one-on-one or with small groups to provide support to students requiring assistance. Classroom placement is determined by the needs of the school as well as the interest and abilities of the Tutor. Peer Tutors are required to attend classes daily and to report to their Peer Tutor Advisors weekly. Initially, meetings are held weekly, and then meetings are held once a month during the lunch hour.

In addition to weekly Journals, Peer Tutors are required to complete four assignments.

## **PEER TUTORING 12**

**#571**

This course is intended to provide students with an opportunity to hone their peer tutoring skills acquired in Peer Tutoring 11. In a subject area where the student has a proven record of success, he/she will work closely with a Sponsor Teacher and directly with students in order to improve leadership, goal-setting, and interpersonal skills. Prior to registering for the course, students are required to seek out a subject area Sponsor Teacher who will work with them to design a subject-specific curriculum. Students wishing to take Peer Tutoring 12 must have achieved at least 75% in Peer Tutoring 11, and must also obtain a recommendation from their Peer Tutoring 11 teacher.

**PREREQUISITE:** Peer Tutoring 11

## **MALE SPORT LEADERSHIP COHORT (3 courses)**

**#325**

**Physical Education 10 #324**

**Planning 10 #335**

**Leadership & Sport Conditioning 10 #325**

The MSLC combine 3 courses, Physical Education 10, Planning 10, and Leadership & Sport Conditioning 10. The MSLC will work to connect student-athletes' abilities in sport with engagement in learning and understanding of how sport can be used in building their education, community connections and lives. Students will gain three course credits towards graduation as well as be provided the opportunity to complete volunteer hours towards graduation while continually improve their athletic potential. Please contact Mr. Oatway if you have any questions regarding the MSLC or need more information: e-mail at [coatway@sd40.bc.ca](mailto:coatway@sd40.bc.ca) or website at [www.coachoatway.com](http://www.coachoatway.com).

**PREREQUISITE:** Must be a student-athlete



# MATHEMATICS

## **MATH (MATHLAB)**

**#5500**

The Math Lab is an individualized, self-paced Math program for students who require significant adaptations in Math in order to meet grade level learning outcomes. The Math Lab offers a smaller class setting, a full computer lab, and the support of both a Math Teacher and Education Assistant. Students recommended to the Math Lab tend to have significant skill gaps in math and need additional time to process the curriculum. Currently the Math Lab offers the following courses: Math 9A, Workplace Mathematics 10, and Workplace Mathematics 11. Other courses may be available depending on individual student needs and in consultation with School Based Teams.

## **IB MATHEMATICS 11 SL / IB MATHEMATICS 12 SL**

**#2414 / #2514**

This course offers a vigorous approach to topics included in Foundations and Pre-Calculus Math 11 and 12 as well as additional math topics prescribed in the IB syllabus, such as calculus, vectors, probability and statistics. Critical thinking and problem solving will be emphasized. IB questioning techniques and notation will be used and practiced in preparation for the IB Math exam. An internal assessment assignment will also be included.

## **IB MATHEMATICS 11 HL / IB MATHEMATICS 12 HL**

**#2415 / #2515**

This course offers an extremely vigorous approach to topics in Foundations and Pre-Calculus Math 11 and 12 as well as additional math topics prescribed in the IB syllabus, such as probability and statistics, vectors, calculus, series and differential equations, complex numbers, and proof, among others. Critical thinking and problem solving will be emphasized. IB questioning techniques and notation will be used and practiced in preparation for the IB Math exam. (An internal assessment will also be included in the final assessment). This is an extremely difficult course and should only be attempted by those with a very strong foundation in mathematics.

## **MATHEMATICS 9**

**#224**

This course builds on and expands the concepts covered in Math 8. Course content includes The Rational Numbers, Powers and Exponents, Measurement (Surface Area and Volume), Algebra (Polynomials and Linear Relations), Geometry (Symmetry, Similar Polygons and Circle Geometry), Probability and Statistics. Problem solving will be emphasized throughout the course. A scientific calculator is required for this course.

**PREREQUISITE:** Strongly recommend a C+ or better in Math 8.

## **MATHEMATICS 9 HONOURS (NWSS Pre-IB)**

**#227**

This course is a preparation for those intending to pursue the International Baccalaureate Programme.

Topics are similar to those in Principles of Math 9 and 10, but studied to a greater depth with enrichment and acceleration. Critical thinking and problem solving will be emphasized.

Additional topics necessary for success in the IB Math program (such as: probability, formal proofs in coordinate geometry, Pythagorean theorem applications, and history of Mathematics) will be incorporated. IB Math questioning techniques and notation will be used and practiced in preparation for the IB program.

## **APPRENTICESHIP AND WORKPLACE MATHEMATICS 10**

**#318**

The Apprenticeship and Workplace Math program is designed to prepare students for entry into various trade programs at the post secondary level. It is not designed to lead into university entrance.

Topics covered include: Measurement (use of Imperial and SI units to study perimeter and area of 2D objects and Surface Area and Volume of 3D objects), Geometry (Problem solving strategies in spatial reasoning, similar polygons and the study of parallel and perpendicular lines and angles associated with them), Trigonometry (Pythagorean Theorem and Primary Trig Ratios) and Numbers (proportions will be used to solve problems involving unit pricing, income and expenditure, banking and currency exchange). Problem solving will be incorporated throughout the course.

**NOTE:** A scientific calculator will be required for this course.

A provincial exam which will account for 20% of the final mark will be written at the conclusion of this course.

**PREREQUISITE:** C- or better in Math 9.

## **MATH FOUNDATIONS OF MATHEMATICS 10**

**#319**

This is a rigorous academic course which requires a serious commitment of time and effort for successful completion. This course builds on the concepts studied in Math 9 and expands the scope and depth of study.

Topics covered include: Measurement (Use of Imperial and SI units to work with Surface Area and Volume), Trigonometry, Algebra (Operations with polynomials and factoring of polynomials), Number Systems (Rational and Irrational Numbers) and Coordinate Plane Geometry (Graphing of linear functions and Solving Systems of Linear Equations).

**NOTE:** A scientific calculator is required for this course.

A provincial exam which accounts for 20% of the final mark will be written at the conclusion of this course.

## **MATHEMATICS 10 HONOURS (NWSS Pre-IB)**

**#327**

This course is a preparation for those intending to pursue the International Baccalaureate program. Topics are similar to those in Math 10 and 11, but studied to a greater depth with enrichment of most topics. Critical thinking and problem solving will be emphasized.

Some topics will be emphasized differently, additional topics necessary for success in the IB Math program (such as permutations and combinations, vectors, and matrices) will be incorporated, and the pace will be accelerated. IB Math questioning techniques and notation will be used and practiced in preparation for the IB Math exam. After successful completion of this course, students who want to prepare for the Standard Level Mathematics course will enter a Standard Level IB course (IB Math Studies or IB Math Methods)



# MATHEMATICS

---

## **APPRENTICESHIP AND WORKPLACE MATHEMATICS 11**

**#407**

The Apprenticeship and Workplace Math program is designed to prepare students for entry into various trade programs at the post-secondary level. It is not designed to lead into University entry. It does satisfy the Math requirement for high school graduation. Topics covered include: Measurement (use of Imperial and SI units to study Area of 2D objects and Surface Area and Volume of 3D objects), Trigonometry (solve problems using primary Trig ratios and scale diagrams), Geometry (develop spatial sense using 2D and 3D objects), Numbers (develop number sense and critical thinking, explore budgets and personal finance), Algebra (Use formulae to develop an understanding of slopes and rates of change) and Statistics (use various graphing techniques to represent and interpret data). Problem solving will be incorporated throughout the course.

**NOTE:** A scientific calculator is required.

**PREREQUISITE:** C- or better in Foundations of Math 10 or Apprenticeship and Workplace Math 10

## **FOUNDATIONS OF MATHEMATICS 11**

**#412**

The Foundations of Mathematics program is designed to cover a wide variety of mathematical topics and is intended for students who plan on studying the social sciences, humanities or the fine arts at the post-secondary level. Foundations of Math 11 is an academic program that requires a serious commitment of time and effort. Satisfactory completion of both the Foundations 11 and 12 courses will allow students to gain general admission into most university programs that do not require the study of theoretical calculus.

A scientific calculator is required for this course.

The topics covered in this course include concepts that appear directly applicable to real world situation such as Measurement and Statistics, as well as high-level abstract concepts such as Geometry, Logic and Reasoning, and the study of mathematical Relations and Functions.

Many topics in this program are not covered in the Pre-Calculus Mathematics program so it is advantageous for students who are serious about studying math or science at the post-secondary level to take both Foundations and Pre-Calculus mathematics.

**NOTE:** A graphing calculator is required.

**PREREQUISITE:** C+ or better in Foundations of Math 10

## **PRE-CALCULUS MATHEMATICS 11**

**#417**

The Pre-Calculus Mathematics program covers a large quantity of abstract mathematical topics and is intended for students who plan on studying math, science, engineering, medicine or commerce at the post-secondary level. This is the most demanding math program being offered and is designed specifically to challenge students who have both exceptional mathematical ability as well as a strong work ethic. Satisfactory completion of both the Pre-Calculus 11 and 12 courses will allow students direct admission into university science, applied science and commerce programs.

The topics covered in this course focus purely on high-level abstract mathematical concepts. These include Algebra, Number Theory, Trigonometry (angles in standard position on the coordinate plane), and the main topic of study, Functions and Relations. Students will analyze different types of functions and their corresponding graphs, learn to manipulate them, as well as solve systems of non-linear equations.

The ultimate goal of this program is to prepare students for the rigors of a post-secondary calculus course. Many mathematical topics not pertaining to the study of calculus are omitted and therefore would be advantageous for students to take Foundations of Mathematics concurrently with this program to give them a broader understanding of math.

**NOTE:** A scientific calculator is required for this course.

**PREREQUISITE:** C+ or better in Foundations of Mathematics 10

## **IB MATHEMATICS METHODS 11 & 12**

(refer **IB MATHEMATICS METHODS 11** in alpha order for course description)

## **IB MATHEMATICS STUDIES 11 & 12**

(refer **IB MATHEMATICS STUDIES 11** in alpha order for course description)





# MATHEMATICS

## PRE-CALCULUS MATHEMATICS 12

#529

The Pre-Calculus Mathematics program covers a large quantity of abstract mathematical topics and is intended for students who plan on studying math, science, engineering, medicine or commerce at the post-secondary level. This is the most demanding math program being offered and is designed specifically to challenge students who have both exceptional mathematical ability as well as a strong work ethic. Satisfactory completion of both the Pre-Calculus 11 and 12 courses will allow students direct admission into University science, applied science and commerce programs. The topics covered in this course focus purely on high-level abstract mathematical concepts. These include Algebra, Number Theory, Trigonometry, Permutations & Combinations and Relations & Functions.

The ultimate goal of this program is to prepare students for the rigors of a post-secondary calculus course. Many mathematical topics not pertaining to the study of calculus are omitted and therefore it would be advantageous for students to take Foundations of Mathematics concurrently with this program to give them a broader understanding of mathematics.

**NOTE:** A scientific calculator is required for this course.

The use of a graphic calculator is not required but is encouraged.

**PREREQUISITE:** C+ or better in Pre-Calculus Mathematics 11

## FOUNDATIONS OF MATHEMATICS 12

#528

The Foundations of Mathematics program is designed to cover a wide variety of mathematical topics and is intended for students who plan on studying the social sciences, humanities or the fine arts at the post-secondary level. FOM 12 is an academic math program that requires a serious commitment of time and effort. Satisfactory completion of both the Foundations 11 and 12 courses will allow students to gain general admission into most University programs that do not require the study of Calculus.

The topics covered in this course include concepts that are directly applicable to real world situations such as Financial Math, as well as high-level abstract concepts such as Logical Reasoning, Probability and Relations & Functions.

Many topics in this program are not covered in the Pre-Calculus Mathematics program, so it is advantageous for students who are serious about studying math or science at the post-secondary level to take both Foundations and Pre-Calculus mathematics.

**NOTE:** A graphing calculator is required.

**PREREQUISITE:** C+ or better in Foundation of Mathematics 11

## MATH (CALCULUS) 12

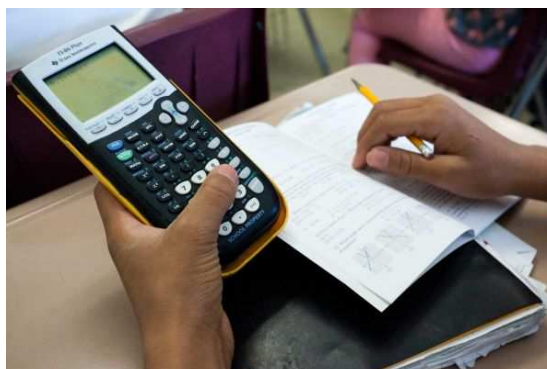
#525

The ultimate goal of this program is for students to preview a post-secondary calculus course and is intended for students who plan on studying science, technology, engineering, or mathematics at the post-secondary level. This is the most demanding math course being offered and is for students who have both exceptional mathematical ability as well as a strong work ethic. Exceptional students may choose to write a calculus challenge exam (from UBC-SFU-UVic-UNBC) and earn credits for Calculus I at local universities and colleges.

Topics include: Limits, Derivatives, Related Rates, Optimization, Integrals, and Differential Equations, with applications.

**NOTE:** A scientific calculator is required.

**PREREQUISITE:** B or better in Pre-Calculus 12





# PHYSICAL EDUCATION

## FOUNDATIONS OF COACHING 12 **NEW!**

#556

This course will enable those students that have an interest in coaching and those that have already started to coach to develop the theoretical and methodological foundations that form a strong coaching philosophy. The course is designed to help students learn the basic skills to become a successful coach. Training in the National Coaching Certification Program and St. John's First Aid will enhance the students' ability to become successful coaches. Students will learn about team and individual skills that will help them as a coach. Training in sport psychology, physical training, and nutrition will also be included. **Open to Grade 11 students.**

## EDUCATION PHYSIQUE 9

#222 / #220 (Annual)

(Physical Education 9) See Physical Education 9 course description for English Version.

## EDUCATION PHYSIQUE 10

#322 / #323 (Annual)

(Physical Education 10) See Physical Education 10 course description for English Version.

## FITNESS AND AEROBICS 11

#424

Want to have fun? Want to get into shape? Need to complete the physical activity hours for your portfolio? Are you a female student in grade 11 or 12? If you answered yes to the above questions you should enroll in the Fitness & Aerobics 11 class! Fitness and Aerobics 11 is a course where students will participate in a variety of activities including bootcamp, body sculpting, aerobics and cardio kickboxing. Proper eating habits and healthy lifestyle choices will also be focused on.

## PHYSICAL EDUCATION 9

#223 / #221 (Annual)

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

## PHYSICAL EDUCATION 10

#320 / #321 (Annual)

The concepts taught in Physical Education 10 include: active living, wellness, fitness, lifetime/leisure activities, with an emphasis upon full participation in the following activities: badminton, golf/Frisbee, mini games unit/minor games, mini leisure unit, personal fitness programs/weight training, skating, soccer, speedball, basketball, team handball, track and field, touch football, volleyball (indoor/outdoor) and Advanced Coronary Training (ACT).

## PHYSICAL EDUCATION 11

#420

This course helps to develop skills and attitudes necessary for lifetime participation in leisure activities and fitness. Physical Education 11 is a hands-on experiential endeavor. Major emphasis is on leadership, volunteer hours (10), one major project and compulsory participation by all students. This course may include field trips to facilities in the surrounding communities. **A fee may be charged for this course.**

## PHYSICAL EDUCATION 12

#520

This course helps to develop skills and attitudes necessary for lifetime participation in leisure activities and fitness. Physical Education 12 is a hands-on experiential endeavor. Major emphasis includes: leadership, volunteer hours (10) which promote volunteer services that assist programs in the school and community, major and minor projects and compulsory participation by all students. This course may include field trips.

**A fee may be charged for this course.**

## STRENGTH & CONDITIONING 11

#425

This course will focus on improving athletic performance through a variety of strength and conditioning methods and techniques. The concepts that will be taught will include core, balance, flexibility, weight lifting, speed, agility, and plyometric training. Also the course will teach nutrition, injury prevention, and mental training as well as theory on anatomy, biomechanics, and principles of weight training and conditioning. This course will ultimately allow students to further develop their bodies and also explore and develop their knowledge about the affects of exercise on their bodies.

**PREREQUISITES:** We would like to remind students that this course is an athletic conditioning course and it is very highly recommended that you are involved in competitive sports, self motivated, and have a keen interest in improving personal strength and conditioning in relation to athletics. **A fee may be charged for this course**

## MALE SPORT LEADERSHIP COHORT (3 courses)

#

Physical Education 10 #324

Planning 10 #335

Leadership & Sport Conditioning 10 #325

The MSLC combine 3 courses, Physical Education 10, Planning 10, and Leadership & Sport Conditioning 10. The MSLC will work to connect student-athletes' abilities in sport with engagement in learning and understanding of how sport can be used in building their education, community connections and lives. Students will gain three course credits towards graduation as well as be provided the opportunity to complete volunteer hours towards graduation while continually improve their athletic potential. Please contact Mr. Oatway if you have any questions regarding the MSLC or need more information: e-mail at [coatway@sd40.bc.ca](mailto:coatway@sd40.bc.ca) or website at [www.coachoatway.com](http://www.coachoatway.com).

**PREREQUISITE:** Must be a student-athlete



# SCIENCE

---

## **BIOLOGY 11**

**#430**

Biology 11 takes the student on a tour of living organisms by studying topics such as: evolution, microbiology, botany, animal biology, and ecology.

**PREREQUISITE:** Science 10 - recommend at least a "C" standing.

## **BIOLOGY 12**

**#530**

Biology 12 is an academic course for students who are planning to continue their education in a post- secondary Science or Health Science. The focus of Biology 12 is quite different from that of Biology 11. Biology 11 is a general "survey" course, whereas Biology 12 has three main topic areas: cell biology, cell processes and applications, and an extensive section on human biology.

A final exam will be written at the end of the course accounting for 30% of the final grade where the remaining 70% of the final grade is derived from class tests and lab assignments.

**RECOMMENDATION:** Biology 11 - recommend a "C+" standing.

Chemistry 11 is strongly recommended.

**A fee may be charged for this course.**

## **CHEMISTRY 11**

**#432**

Chemistry, the study of non-living matter, deals with the structure and interaction of matter at the atomic and molecular levels. Topics include: introduction to chemistry, atoms, molecules and ions, mole concept, chemical reactions, atomic theory, solution chemistry and organic chemistry.

**PREREQUISITE:** Science 10, Math 10 STRONGLY recommend a minimum "C" standing.

## **CHEMISTRY 12**

**#532**

The Chemistry 12 course is the study of the different aspects of chemical reactions: the rates of chemical reactions, equilibrium within chemical reactions, the solubility of saturated solutions, acid base theory, and redox chemistry. Laboratory work supports the chemical theory studied. A final examination accounting for 30% will be written at the end of the semester where the remaining 70% of the final grade is derived from class tests and lab assignments.

**PREREQUISITE:** Chemistry 11 - recommend at least a "C" standing.

A "B" (min) in FMP 11 is strongly recommended.

**A fee may be charged for this course.**

## **EARTH SCIENCE 11**

**#435**

Earth Science 11 is for students interested in studying the Earth, its processes and its place in the universe. This course includes units in Astronomy, Geology, Meteorology and Oceanography. Topics include space exploration, the moon, plate tectonics, earthquakes, volcanoes, rocks and minerals, weather and the sea floor. Evaluation is based on many chapter tests and quizzes as well as labs and assignments completed in class. A final exam worth 25% will be written at the end of the course.

**PREREQUISITE:** Science 10 and Math 10 with a minimum 60% average in both is strongly recommended.

## **GEOLOGY 12**

**#535**

Geology 12 continues the Geology portion of the Earth Science 11 course.

Topics include rocks and minerals, fossils and geologic time, resources, erosion and weathering, earthquakes, volcanoes, plate tectonics and planetology. Students have the opportunity to take part in an overnight field trip to Mount St. Helens in Late May. Student evaluation includes many tests and quizzes based on in class labs and assignments as well as a lab exam and a final exam worth 30%.

**PREREQUISITE:** Recommended Earth Science 11 or another grade 11 science in which a C standing or better was achieved.

## **IB BIOLOGY 11/12**

**#2430 / #2530**

IB Biology 11 is a survey of all the human body systems including a dissection of the fetal pig.

The course ends with the study of ecology.

IB Biology 12 begins with the biochemistry of micro molecules, metabolic pathways and the roles of DNA in protein synthesis, genetics, and evolution. The course ends with the IB examinations.

**A fee may be charged for this course.**

## **IB CHEMISTRY 11 / IB CHEMISTRY 12**

**#2432 / #2532**

"The significantly revised IB DP Chemistry curriculum arms students with academic theoretical knowledge along with practical and investigational skills, giving them an insight into the analysis, collaboration, and communication that occurs in the global scientific community. The two-year course, offered at the standard and higher levels, includes Measurement and Stoichiometry, Atomic Theory and Periodicity, Bonding and Energetics, Kinetics and Equilibrium, Acid-Base chemistry, Redox processes, and Organic chemistry at the core, along with Biochemistry as the chosen option. Students are assessed internally via an investigative, experimental research paper, and externally in the final IB exams in May of the Grade 12 year."

**A fee may be charged for this course.**



# SCIENCE

---

## **IB PHYSICS (Standard Level) 11/12**

**#2434 / #2534**

The IB Physics Syllabus is a combination of the curriculum from the province of British Columbia for Physics 12 and the IB Course Syllabus. The objectives will concentrate on the laws of physics, experimental skills, and the social and historical aspects of physics as an evolving body of human knowledge about nature. Topics include: Measurements and Uncertainties, Mechanics, Electricity and Magnetism, Thermal Physics, Waves, Atomic, Nuclear and Quantum Physics, Energy Production and Astrophysics. While the skills and activities are common to students at both Standard and Higher Level, the distinction between SL and HL is one of breadth and depth. Previous exposure to formal specific education (Physics 11), a very good understanding of the concepts covered by the topics of Waves, Geometrical Optics, Kinematics, Dynamics, Energy, Nuclear Physics, and Special Relativity, along with the required skills to apply these concepts in theoretical and practical work are necessary in order to be successful in the IB Physics course.

## **IB PHYSICS (Higher Level) 11/12**

**#2435 / #2535**

The IB Physics HL course syllabus follows the same curriculum as IB Physics SL, providing more in-depth study of the content and is supplemented with additional topics on quantum physics, digital technology and astrophysics. The core material taken by SL students forms a sub-set of the HL program.

## **SCIENCE 9**

**#230**

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

## **SCIENCES NATURELLES 9**

**#231**

Ce cours vise à développer un vocabulaire et une culture scientifique. Les laboratoires et les projets sont une partie importante du cours développant une expérience pratique de la science. La chimie, la physique, la biologie humaine et l'espace sont les quatre unités étudiées dans le cours.

## **PHYSICS 11**

**#434**

Physics 11 course content covers the following: Physics: introduction, error analysis, math, review; wave motion and geometrical optics; kinematics; graphs of motion, displacement, velocity and acceleration in one dimension, work and energy, special relativity, nuclear fission and fusion.

**PREREQUISITE:** Science 10 and Math 10. Recommend at least a "C" standing in both.

## **PHYSICS 12**

**#534**

Physics 12 delves into certain Physics 11 topics with greater depth and introduces new topics such as: equilibrium (physical), circular motion, gravitation, electrostatics, electric circuits, and electromagnetism. A final examination will be written at the end of the semester which accounts for 30% of the final letter grade. The remaining 70% is determined by scores on classroom tests and laboratory assignments.

**PREREQUISITE:** Physics 11 and Math 11. Strongly recommend at least a "C+" standing in both.

## **SCIENCE 8**

**#130**

Science 8 is intended to stress a hands-on approach to the study of Science. Topics include: Processes of Science; Life Science (cells and organ systems); Earth and Space Science (water systems on Earth); and Physical Science (light, optics and fluid dynamics).

## **SCIENCE 9 & 10 HONOURS (NWSS Pre-IB)**

**#237 / #337**

These are intensive courses designed for students intending to pursue the International Baccalaureate (IB) Diploma Programme. NWSS Pre-International Baccalaureate Science 9 and 10 will follow the Science 9 and 10 curriculum for the province of British Columbia with additional material added and the depth of study increased. Honours courses require students to work at a faster pace to accommodate enrichment activities and topics.

## **SCIENCE 10**

**#330**

Science 10 continues on with the concepts and theories introduced in Science 9. Topics covered in the course include Ecology (the study of biomes, nutrient cycles and changes in natural systems), Chemistry (atomic theory, compounds and chemical reactions), Physics (radiation, velocity and acceleration) and Earth Science (energy flow and the kinetic molecular theory, climate change and plate tectonics). The school component of the course will make up 80% of a students' final grade with the remaining 20% of the grade coming from the mandatory Provincial Examination.

## **SCIENCE & TECHNOLOGY 11**

**#436**

The relationship between "Science" and "Technology" is introduced to the student in Science and Tech 11. The technological principals students learn in the classroom setting are applied to labs they perform. Some topics covered include: energy, waste management, transportation, communication, health, space, resource management, recreation and the future.



# SOCIAL STUDIES

---

## **CIVICS 11**

**#406**

In this course, students will be analyzing social responsibility in the community, in the province, in the country, and in the world. Topics include: roles of individuals in society, culture, language, and community, environment and geography, principles of democracy, political ideologies and international issues. Students are required to take a position and implement a plan of action on a relevant civic issue. All students must write a provincial examination worth 20% of their grade.

This course meets the Social Studies 11 requirements.

## **COMPARATIVE CIVILIZATIONS 12**

**#518**

This course explores humanity's journey through time, up to the 16<sup>th</sup> century. We will examine ancient civilizations from Europe, Asia, Africa, and Meso-America that have greatly influenced the world. We will explore culture, beliefs, and values, as well as the following topics: art, architecture, philosophy, religion, technology and history. Students will develop a greater awareness of world history and the contributions of ancient civilizations to the current human experience. This course is research and project based, with a focus on critical thinking and primary source analysis.

**PREREQUISITE:** Social Studies 11 with a minimum achievement of 60% is recommended.

## **ÉDUCATION CIVIQUE 11**

**#404**

The NWSS French Immersion program will be offering "Education Civique 11" for the first time in 2008-09. While allowing students to spend more time speaking French, this course will examine students' rights and responsibilities as citizens of their local and global communities. We will critically examine a variety of issues facing contemporary society, while exploring government and societal structures and how to act for change. In short, this is a course in active citizenship which will deepen students' understanding of relevant concepts covered in Sciences Humaines 11.

This course has a provincial exam worth 20% of the final grade.

## **FIRST NATIONS STUDIES 12**

**#513**

This course focuses on the richness and diversity of First Nations: languages, literature, artistic traditions, the use of land and its resources, education, politics and legislation. It will emphasize the history and traditions of B.C., other Canadian and global First Nations societies. However, it will also provide the opportunity to look at:

- (1). differing forms of First Nations self-government in Canada *and*
- (2). literature written by indigenous authors from other parts of the world.

This course encourages student-centered learning and is available to Grade 11 & 12 students.

**PREREQUISITE: #5510**

## **GEOGRAPHY 12**

**#514**

Geography 12 is primarily concerned with the study of human and physical geography. Through this course, students will gain a critical understanding of the physical world around them: why our mountains are shaped the way they are (tectonics and gradation), where our weather comes from and how it is created (meteorology), and how humans and other life forms interact with our ever changing world (biomes and environmental sustainability). This visual and process oriented course will introduce students to a significant amount of new vocabulary, mapping skills, charts, diagrams, and other tools used by the geographic community.

**PREREQUISITE:** Social Studies 11

## **HISTORY 12**

**#516**

This course in 20<sup>th</sup> century (1919 to 1991) history focuses on the theme of conflict in international affairs, particularly the effect of post World War I peace settlements, the origin and development of World War II and the Cold War, breakdown of the U.S.S.R., as well as recent sites of conflict in the Middle East and Vietnam.

**PREREQUISITE:** Social Studies 11.

## **IB HISTORY 11 / IB HISTORY 12**

**#2410 / #2510**

IB History 11/12 offers two levels (Standard and Higher) of advanced study in Twentieth Century World History Prescribed Subject of study: The Move to Global War.

20<sup>th</sup> Century World History Topics: Authoritarian States in the 20<sup>th</sup> Century, Causes and Effects of 20<sup>th</sup> Century Wars.

Higher Level students are also required to study one regional option:

- Europe and the First World War (1871-1918),
- European States in the Interwar Years (1918-1939), and
- Versailles to Berlin: Diplomacy in Europe (1919-1945)

Since history involves close textual analysis and critical thinking, students will discuss and debate issues, analyze documents, and write essays (as preparation for the IB examinations in the grade 12 year).

Standard level students write **TWO** external exams in May of their grade 12 year, whereas higher level students write **THREE** external exams at the end of grade 12.

**NOTE:** Higher level students must attend a weekly 1.25 hour seminar in their grade 11 year.



# SOCIAL STUDIES

---

## **HISTORY THROUGH FILM 12**

**#510**

Locally Developed \* pending board approval

Do you love watching films and learning about the past? Then History Through Film 12 is the course for you! In History Through Film 12, students will study documentary and feature films to learn about World History. Among other skills, students will learn to assess film techniques, research historical events, and analyze historical perspectives. This course can be taken in conjunction with History 12 (to enrich student experience of twentieth century history) or studied on its own.

**PREREQUISITE:** Social Studies 11.

## **JUSTICE SOCIALE 12**

**#539**

Offert pour la première fois en français en 2010-2011 au niveau provincial, ainsi qu'à NWSS, le cours

« Justice sociale 12 » vise la compréhension de l'injustice et l'action nécessaire pour affronter celle-ci. Les élèves seront amenés à comprendre les causes de l'oppression et à réfléchir de manière critique aux causes des diverses formes de discrimination, à l'échelle locale, nationale et mondiale. Nous examinerons également la signification d'un comportement personnel « juste » d'un point de vue éthique, ainsi que des approches individuelles et organisationnelles permettant de confronter l'injustice. Ce cours comprend des projets incitant les participants à agir et à se développer en tant que citoyens responsables.

This course provides an excellent opportunity for French Immersion students to continue the use of their French language skills at the senior level. See Social Justice 12 for the English version of the course description.

**COURSE PRÉREQUIS :** Sciences Humaines 11 (60%)

## **LAW 12**

**#553**

This course is designed to help students understand Canada's legal system. The focus is on: criminal law, civil law, family law, history of law, and current events. Law 12 fosters skills and attitudes that enhance students' abilities to address legal, social, and ethical issues, and reflect critically on the role of law in society. The study of law also promotes the skills and abilities needed to clearly express ideas, and argue effectively and logically.

Involves field trips, mock trials, debates and discussions.

**PREREQUISITE:** Social Studies 11

## **PSYCHOLOGY 11**

**#418**

Have you ever wondered what is really going on in the human brain or what drives human behavior? Then this is the course for you! This is an introductory course that examines our sense of "self," the human brain structure and nervous system, senses and perception, thinking and learning styles, theories in personality and psychological disorders.

## **PSYCHOLOGY 12**

**#512**

This course begins with a brief look at some of the historical pioneers of psychology. However, the emphasis is on human behavior. The focus is on topics such as nature vs. nurture, stress and health, consciousness, motivation (what drives human behavior), emotion, and careers in psychology.

**PREREQUISITE:** Psychology 11

## **SCIENCES HUMAINES 9**

**#211**

(Social Studies 9) See Social Studies 9 course description for English Version.

## **SCIENCES HUMAINES 10**

**#311**

(Social Studies 10) See Social Studies 10 course description for English Version.

## **SCIENCES HUMAINES 11**

**#411**

(Social Studies 11) See Social Studies 11 course description for English Version.

## **SOCIAL JUSTICE 12**

**#517**

What is 'social justice'? Simply, it is the expectation that the basic human rights of all people are upheld. Students will explore issues of oppression and injustice in a Canadian and Global context. We will examine social justice issues such as racism, homophobia, sexism, poverty, and globalization. We will analyze both the causes and consequences of injustice and explore viable solutions by understanding how social change has occurred in the past. This is a research and project based course.

**PREREQUISITE:** Social Studies 11 (60%).



# SOCIAL STUDIES

---

## **SOCIAL STUDIES 9**

**#210**

The course is divided into two sections. The first section focuses on the study of Europe 1750-1919. The second section investigates North America 1500-1815. Themes studies throughout will include revolution, nationalism, colonialism, and imperialism.

**PREREQUISITE:** Social Studies 8.

## **SOCIAL STUDIES 9 HONOURS (NWSS Pre-IB)**

**#215**

This is an intensive course designed for students intending to pursue the International Baccalaureate Programme. This course offers an enriched experience of the regular Social Studies 9 course and part of the Social Studies 10 course. This course will focus on: the expansion and development of European Nationalism, Imperialism, Industrialization and Revolution in 17<sup>th</sup> and 19<sup>th</sup> Centuries, with some emphasis on Canadian reactions to it. Topics include: Native settlement and colonization, European influence in early Canada, conflict and revolution in Europe, responsible government, and Confederation.

## **SOCIAL STUDIES 10**

**#310**

This course is divided into two sections. The first section covers: the events that lead to Responsible Government, Confederation, the Opening of the West, and an overview of the History of British Columbia. The second section explores US-Canadian trade relations, especially the Free Trade and North American Free Trade Agreements, Pacific Rim Economies with specific reference to China, the Port of Vancouver, and the Regional economic Geography of British Columbia.

**PREREQUISITE:** Social Studies 9.

## **IDS 10A (Social Studies 10) (Trasitional) LD**

**#312**

This course is designed to build the foundations necessary for entry into Social Studies 11. This includes skills and content and vocabulary/language of Canadian geography and history. The course will provide a background including: peoples, places, events, values and traditions, as well as the overall academic vocabulary, skills, and analysis required to be successful in this discipline. (Usually overall ELL level 3.5)

**PREREQUISITE:** Completion of the ELL program based on teacher recommendation.

Course completion leads to Social Studies 11.

This is a credit course that can be used for graduation.

## **SOCIAL STUDIES 10 HONOURS (NWSS Pre-IB)**

**#315**

This course is a continuation of Social Studies 9 Honours course. This course aims to finish the Social Studies 10 content started in Social Studies 9 Honours and to cover the Social Studies 11 content.

Topics to be covered include:

- Canada-US relations
- BC Economic Geography
- 20<sup>th</sup> Century Global conflicts
- Government in Canada and
- Geography.

Students will write the Social Studies 11 government exam worth 20% of their Social Studies 11 grade.

**PREREQUISITE:** Social Studies 9 Honours

## **SOCIAL STUDIES 11**

**#410**

This course is divided into three sections. One section investigates: Canada's historical movement towards independence from Britain in the period 1900-1948, its growing relationship with the U.S.A; its involvement in major international conflicts and organizations; its internal problems and the development of social programs. The second section presents global issues such as: population growth, urbanization, economic and resource development; environmental concerns, standards of living and human rights. The third section's focus is on Canadian Government systems and political parties. This course has a Government Exam worth 20% of the SS11 grade.

**PREREQUISITE:** Social Studies 10



## TECHNICAL EDUCATION

### **AUTOMOTIVE TECHNOLOGY 11 GIRLS ONLY!**

**#478**

This course is designed for girls only. In this class we will learn how to maintain a vehicle, understand vehicle repairs & costs. We will learn how to perform our own car repair, maintenance and understand what repairs need to be performed at a repair shop. We will also learn how to buy and sell, insure and register vehicles.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

### **AUTOMOTIVE TECHNOLOGY 11**

**#477**

This is an introductory course designed for students who are interested in gaining an understanding of automobile construction and operation. Topics to be covered include: body and frame design, wheels and tires, brakes, suspension, cooling systems, lubrication systems, and basic engine operation.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

### **AUTOMOTIVE TECHNOLOGY 12**

**#580**

This course is a continuation of Automotive Technology 11 with a heavier emphasis will be on practical work. Topics to be covered include: batteries, engine repair and maintenance, starting and charging systems, fuel systems, and emission controls. Major projects may include an engine or transmission rebuild. Work may be performed on students own vehicles.

**PREREQUISITE:** Automotive Technology 11.

*A fee may be charged for this course.*

### **AUTOMOTIVE TECHNOLOGY 12:**

#### **Body Repair and Finish (Restoration)**

**#569**

This course is intended to provide students with exposure to the field of automotive restoration. It will consist of an in-class restoration of a classic or vintage automobile. Emphasis is placed on developing good work habits and attitudes as well as attaining knowledge in areas of research, auto body, interior/upholstery, basic electrical and drivetrain.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

### **CARPENTRY AND JOINERY (WOODWORK) 11**

**#479**

This course is a level 1 woodworking course intended to build upon skills learned in Technology 10 Woodwork. Students will build teacher selected projects using hand and power tools. The major areas of learning will be in Joinery, assembly drawings, finishing, hand tool maintenance, and the safe and proper use of power tools.

There will also be a self-directed component to this course involving a student selected project.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

### **CARPENTRY AND JOINERY (WOODWORK) 12**

**#585**

This is a senior woodworking class and a continuation of Carpentry and Joinery 11 with students designing and building projects of their choice. The course is designed for students with above average woodworking skills or those considering a career in cabinet making.

**PREREQUISITE:** Carpentry and Joinery 11

*A fee may be charged for this course.*

### **CARPENTRY AND JOINERY 12: RESIDENTIAL CONSTRUCTION**

**#639**

This course is open to students in grades 11 and 12. This program will introduce students to the design and fundamental techniques used in residential construction such as competency in the use of tools and materials, understanding building codes and blueprint reading. It is a great choice for those who enjoy working with tools and technical instruments. This experience could equip students towards a trades apprenticeship program in the future.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

### **CARPENTRY AND JOINERY 12: WOODCRAFT PRODUCTS**

**#635**

This woodcraft class is an introductory course in which students learn how to design and make objects from wood materials using carving, turning, and cutting techniques. This course is open to all students in grades 10-12. Students will learn the basic uses and safety procedures for power wood working and wood carving tools. Students will be involved in woodcarving, intarsia, model making, wood turning, special wood crafting design projects.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*





## TECHNICAL EDUCATION

### **DRAFTING AND DESIGN 11 (AUTOCAD ARCHITECTURAL / INTERIOR DESIGN / 3D PRINTING) #481**

This is a level 1 course, students who have an interest in areas that include; design, architecture, engineering, construction, real estate, computer animation, and computer use will find this course fun, interesting, and valuable. This is a level one and two course. Throughout this hands-on course, we will explore how we can communicate our unique and creative ideas through the use of computer-aided drawing (using AutoCAD, Revit and other Autodesk software) and 3-D computer animation. Architectural design will be introduced and students will have the opportunity to design a house and to create a virtual walkthrough. No previous computer experience is necessary for the successful completion of this course.

**PREREQUISITE:** NONE

### **DRAFTING AND DESIGN 12 (AUTOCAD ARCHITECTURE, ENGINEERING DESIGN & 3D PRINTING) #586**

This is level 2 drafting course, you will explore; three dimensional models and animations using Autodesk software and 3D programs. Students will work on solid modeling, rendering, and importing images. Students may focus on a specific area; architecture, mechanical drafting, furniture design, modeling, animation, interior design, landscape design, etc. This course will be mainly project based. CNC (Computerized lathe and mill) processes will also be used in this course.

**\*RECOMMENDED PREREQUISITE:** Technology 10: Drafting and/or Drafting and Design 11

### **DRAFTING AND DESIGN 12A: ADVANCED DESIGNS #581**

This is a level 3 course and is a primarily self-directed. Students will use a variety of software to complete their major projects. You will have the opportunity to enhance your AutoCAD, Revit, Inventor, Rhino, 3D-Studio Max, and Google sketch-up skills. CNC (Computerized mill) processes will also be used in this course.

**PREREQUISITE:** Drafting and Design 12

### **ENGINEERING 11 (VEX ROBOTICS / ELECTRONICS-Arduino) #483**

This is an introductory engineering course focusing on the *Engineering Design Process*, robotics and electronics. The main objective of this course is to design and create mechanisms and devices to solve various problem statements. Hand and power tools will be used to manufacture projects using a variety of materials. Projects may include simple and complex machines, programmable robotics (VEX) and programmable electronics (ARDUINO)

**PREREQUISITE:** NONE

**A fee may be charged for this course.**

### **ENGINEERING 12 (VEX ROBOTICS / ELECTRONICS-Arduino) #588**

Engineering 12 (robotics and electronics) is a continuation of grade 11, where students will further develop their robotics design, programming, movement and function. Hand and power tools will be used to manufacture mechanisms and electronics using a variety of materials. Students will compete in VEX robotics competitions and self-directed projects using the Arduino platform.

**PREREQUISITE:** Engineering 11

**A fee may be charged for this course.**

### **INDUSTRIAL DESIGN 11 (ENGINEERING & MECHANICAL DESIGN & 3D PRINTING) #484**

This is a hands on course with computer use. Industrial designers study the elements of design and the design process from the conceptual stages through to the actual prototype construction on numerous items such as cell phones and sporting goods, vehicles and tools. Industrial designers work behind the scenes to determine features, appearance, materials, and the ergonomics of many products you use every day. This course provides students with opportunities to solve design problems and communicate design ideas with the aid of Autodesk software (Inventor, Revit, 3D-studio Max). Course content is centered on critical thinking, problem solving, and group-based project work. A major component of this course is an Industrial Design Competition.

**PREREQUISITE:** NONE

**A fee may be charged for this course.**

### **INDUSTRIAL DESIGN 12 (ADVANCED ENGINEERING & MECHANICAL DESIGN & 3D PRINTING) #584**

This course builds on the knowledge and skills acquired in Industrial Design 11. Students will study design criteria related to, product designs, systems, selecting appropriate materials and components.

A major component of this course is centered on the Carleton University School of Industrial Design Competition.

**PREREQUISITE:** Industrial Design 11

**A fee may be charged for this course.**



# TECHNICAL EDUCATION

## **METAL FABRICATION AND MACHINING 11**

**#482**

Metalwork 11 will develop further the basic metalwork skills learned in Technology 10: Metalwork including Arc and MIG welding. Students will have lots of opportunity to choose from a variety of personal projects with some involved in larger projects such as personal electric scooters, chopper bikes, or electric and gas powered vehicles.

**PREREQUISITE:** Technology 10: Metalwork Recommended

*A fee may be charged for this course.*

## **METAL FABRICATION AND MACHINING 11**

**#494**

### **BICYCLE MAINTENANCE AND REPAIR**

This course is open to students in grades 9-12. In this program students will be introduced to the fundamental techniques used in the repair and maintenance of bicycles with the opportunity to explore the design and building of custom bike frames. Students will also learn the proper use of the required bicycle tools. Bicycle riding safety will be touched upon during the supervised rides that the class will go on. There may also be entrepreneurial opportunities in the senior levels of this course.

*A fee may be charged for this course.*

## **METAL FABRICATION AND MACHINING 12**

**#582**

Basic metal skills taught in the previous grades will be further developed including the introduction to the fundamental techniques of aluminum welding and the Milling Machine.

There will also be a self-directed component to this course involving a major project.

**PREREQUISITE:** Metal Fabrication and Machining 11 Recommended

*A fee may be charged for this course.*

## **METAL FABRICATION AND MACHINING 12:**

**#632**

### **ART METAL AND JEWELRY**

This course is open to students in grades 9-12. In this program students will be introduced to the fundamental techniques used in producing constructed and cast jewelry. Basic skills will be learned such as cutting, filing and polishing metals and the use of jeweler's tools. The design process will be an important component to the course.

All ideas, sketches and drawings will be documented in a design sketchbook. Students will be designing and producing unique metal art and jewelry using techniques such as wire and bead, copper enameling and cuttlebone casting. Students will also integrate the use of recycled materials to address important environmental issues in our society.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

## **METAL FABRICATION AND MACHINING 12B**

**#633**

### **ART METAL AND JEWELRY**

This course is open to students in grades 9-12. In this program students will build upon the fundamental techniques learned in METAL FABRICATION AND MACHINING 12: Art Metal and Jewelry with the opportunity to explore advanced methods of jewelry making such as lost wax casting and Glass Jewelry making. The design process will be a significant component to the course. All ideas, sketches and drawings will be documented in a design sketchbook which will be developed into a portfolio for future use. Students will further develop their skills in designing and producing unique metal art and jewelry. Students will also integrate the use of recycled materials to address important environmental issues in our society. Entrepreneurial opportunities in the course will be addressed for students wanting to sell their jewelry. Marketing skills will be developed to successfully start their own business.

**PREREQUISITE:** Metal Fabrication and Machining 12: Art Metal and Jewelry Recommended

*A fee may be charged for this course.*

## **TECHNOLOGY 9 - MAKER**

**#275**

Technology 9 is an excellent course for those students who want to be challenged to design, innovate, think critically and problem solve using hand and power tools. Tech 9 is a course in which students learn to safely and skillfully use hand and machine tools. This course will touch on four technology areas, such as Drafting, Electronics, Metalwork, and Woodwork. Students will use these newly acquired skills to develop interesting and challenging projects and competitions.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*



# TECHNICAL EDUCATION

---

## **TECHNOLOGY 10: DRAFTING & 3D PRINTING**

**#381**

This course provides an introduction to the fundamentals, standards, and skills of Computer Aided Design (CAD) Drafting. This level one course covers the following topics: House Design, Orthographic Projections, Dimensioning, Sections, multi-view, Pictorial drawings, and Working drawings through (CADD). 3D Computer Drawings, using 3D software (3D studio max). CNC (Computerized lathe and mill) processes will also be used in this course.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

## **TECHNOLOGY 10: ENGINEERING AND ROBOTICS**

**#376**

This is an introductory engineering course focusing on the **ENGINEERING DESIGN PROCESS**, robotics and electronics. The main objective of this course is to design robotic mechanisms and electronic devices.

Hand and power tools will be used in the manufacture of mechanisms and electronics using a variety of materials.

Projects may include design challenges, VEX robotic challenges and ARDUINO electronics.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

## **TECHNOLOGY 10: METALWORK**

**#382**

This course offers a full semester of metalwork covering basic metal skills such as: cutting, filing, sanding and polishing of simple metal projects. Students will learn the fundamentals of Oxy-Acetylene Braze Welding and Fusion Welding. Students will also learn to use all the metal shop machinery and hand tools including the Metal Lathe and the Foundry (Blacksmithing and Casting). Once the basic skills are mastered, students will develop their own projects such as: Battlebots, Electric and Gas powered Go Karts and Art Metal/Jewelry.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

## **TECHNOLOGY 10: WOODWORK**

**#379**

Wood Technology is an introductory course in which students will learn their basic woodworking skills. This course is a hands-on course involving the use of wood and wood composites. The safe use of all machines are demonstrated and students must pass a competency test before using each. Students will design and create a variety of teacher and student selected projects. Students will become familiar with the safe use of tools and machinery while developing skills in problem solving, joinery, and time management as per industry standards.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*

## **TECHNOLOGY 10: GIRLS ONLY WOODWORK**

**#378**

Wood Technology for Girls in grades 9-12, it is a first level course in which students will learn basic woodworking skills. This course is a hands-on course involving the use of wood and wood composites. The safe use of all machines are demonstrated and students must pass a competency test before using each. Students will design and create a variety of teacher and student selected projects. Students will develop skills in problem solving, joinery, and time management in a safe and comfortable environment. This is the same as the WOODWORK #379 but aimed at providing girls with a more comfortable, less intimidating environment.

**PREREQUISITE:** NONE

*A fee may be charged for this course.*



# VISUAL AND PERFORMING ARTS

## DANCE

### **DANCE: PERFORMANCE 9/10**

**#289 / #389**

Open to grade 9 and 10 students.

Students who take this course will experience the opportunity to learn and improve on a variety of dance genres. Students will participate in activities that facilitate improvement of dance technique, teamwork skills, communication skills and performance skills while learning and creating dance choreography. Evaluation is based on personal and social skills development through participation, improvement of dance technique through performing dance choreography, a major project, and other written reflections.

**\* Dance shoes are required and can be purchased from the teacher.**

### **DANCE: PERFORMANCE 11/12**

**#489 / #589**

Students who take this course will experience the opportunity to expand upon and improve their technique in variety of dance genres. Students will participate in activities that facilitate improvement of dance technique, teamwork skills, communication skills and performance skills while learning and creating dance choreography. Evaluation is based on personal and social skills development through participation, improvement of dance technique through performing dance choreography, a major project, and other written reflections.

**PREREQUISITE:** NONE (Some dance experience is an asset)

## DRAMA

### **DRAMA 9**

**#264**

Drama 9 presents a more advanced level of developmental drama through the continuation of the "theatre games" approach. The student is introduced to scripted plays and class scene productions, including rudimentary elements of blocking. The students will be given the opportunity to see outside theatrical productions and will be encouraged to participate in productions at the school. Evaluation is based on participation and development throughout the year supplemented with some written assignments.

**PREREQUISITE:** NONE, but Drama 8 is strongly recommended.

### **DRAMA 10**

**#360**

Drama 10 incorporates continued development of skills in movement, speech, mime and improvisation = with an emphasis on movement and speech. This course also includes script analysis, scene production and theatre background. Students are encouraged to perform outside of class and to attend local productions. Evaluation is based on participation and development throughout the year supplemented with some written assignments.

**PREREQUISITE:** NONE, but Drama 9 is strongly recommended.

### **THEATRE PERFORMANCE 11: ACTING**

**#476**

Acting 11 is an introduction to theatre arts. No previous experience is necessary. Some of the topics studied are: script analysis, scene production, acting and production techniques, play reviews, improvisation, and practical acting work. There will be some written assignments. Production assignments will require some extra-curricular time.

**PREREQUISITE:** NONE, but Drama 10 is recommended.

### **THEATRE PERFORMANCE 12: ACTING**

**#575**

Acting 12 is a continuation of Acting 11. This course includes: advanced study of movement, speech and acting techniques; detailed script analysis; and the study of acting styles and theatre history. Production assignments will require some extra-curricular time. There will be some written assignments.

**PREREQUISITE:** Theatre Production 11 recommended.



# VISUAL AND PERFORMING ARTS

## MUSIC- CHOIR

### **CONCERT CHOIR 9, 10, 11, 12**

**#259, #353, #474, #576**

Singing in a choir gives students a chance to explore their identity and their world by working on finding and strengthening their voice. Studies have shown that choral singing improves physical and mental health, encourages good citizenship, fosters leadership, provides community and improves academic outcomes. In this class students learn vocal technique and music literacy. This class is offered on the timetable. Students participate in at least one performance.

No previous music or singing experience is necessary

### **SENIOR CHOIR 10, 11, 12 Z BLOCK**

**#850 / #851 / #852**

This course is offered after school on Tuesday and Thursday from 3:15pm to 4:30pm as a graded course for credit.

This ensemble builds a safe and engaging community through which we explore ourselves and our world through music. Students will learn healthy vocal technique and music literacy. No previous music or singing experience is necessary, but full commitment to all rehearsals and performances is required. This group participates in a tour in the spring.

### **CHAMBER CHOIR 10, 11, 12 Z BLOCK**

**#355 / #455 / #555**

This is an advanced choral class that focuses on learning and performing classic choral repertoire in a variety of styles. This is for the advanced choral student. Students must have previous choral experience and must demonstrate basic music literacy in an audition that includes sight singing melodies and rhythms. Concurrent registration in a large music ensemble (concert band or concert choir) is recommended. This is a Z-Block class scheduled for Tuesday and Thursday mornings from 7:15am to 8:30am as well as lunchtime on Friday. Admission is by audition, with auditions being held the first week of June. Students should register for the course if they intend on participating. This class participates in a tour in the spring.

### **VOCAL JAZZ 9 & 10**

**#273 / #373**

This choir focuses on the vocal jazz style sung by groups such as Idea of North, The Real Group Take 6, Lambert Hendricks and Ross and The Hi-Los. Students will learn about the history and traditions of jazz and pop music including developing personal voice and improvisation. This class also explores solo singing and working with a rhythm section (bass, piano, drums and guitar). This class is offered on the timetable during the semester.

### **VOCAL JAZZ 11 & 12 Z BLOCK**

**#473 / #573**

Vocal Jazz is a Z block course offered in the morning on Monday, Wednesday and Friday from 7:15 am to 8:30 am. Students explore the idiom of jazz through the ensemble singing. This course is highly participatory and involves at least two extra-curricular performances. As well, this class develops leadership and community building skills. Students will also have some opportunity to gain solo skills and explore improvisation. Prerequisite is Vocal Jazz 10/11 or permission of the instructor.

## MUSIC- CONCERT BAND

### **CONCERT BAND 9**

**#260**

Students in this course will further develop instrument techniques learned in Band 8 through rehearsing and performing concert repertoire in a variety of styles. This course is highly participatory and involves at least two extra-curricular performances. Generally a performance tour is planned for Band 9. This course is offered on the timetable and is scheduled all-year, rotating with PE 9.

**PREREQUISITE:** Participation in the Middle School Band Program or permission of instructor.

### **CONCERT BAND 10**

**#354**

Students in this course will build on skills learned in Band 9, focusing on increasing technique through the rehearsal and performance of repertoire in a variety of styles. This course is highly participatory and involves at least two extra-curricular performances. This group participates in a tour in the spring. This course is offered on the timetable and is scheduled all-year, rotating with PE 10.

**PREREQUISITE:** Band 9 or permission of instructor.

### **SENIOR CONCERT BAND 11 & 12**

**#468 / #570**

This course is a continuation of Band 10, with a focus on classic, challenging literature. This course is highly participatory and involves at least two extra-curricular performances. This group participates in a tour in the spring. This course is offered on the timetable and is scheduled all-year.

**PREREQUISITE:** Band 10 or permission of instructor

### **HONOUR WIND ENSEMBLE (Grades 10 to 12)**

**#339 / #439 / #539**

This is an advanced ensemble that meets once a week on Monday evenings from 7 PM to 9:30 PM for the entire school year. Students will be expected to be able to play demanding repertoire and practice often in order to perform in this ensemble. Regular performances, including the possibility of participating in out-of-town music festivals, will be a major component of this course. Commitment, dedication, leadership, and a high level of musicianship are expected from all participants in this course. Acceptance into this ensemble is typically by invitation and/or audition.

**Open to Grade 9 students as well.**



# VISUAL AND PERFORMING ARTS

## MUSIC- GUITAR

### **GUITAR LEVEL ONE**

**#287**

This course is offered to students in grades 9 through 12 interested in learning how to play the guitar that do not have previous musical training. Music fundamentals will be systematically taught by focusing on how to play a variety of chords, scales, strumming patterns, finger-style and picking techniques both individually and groups. Students have the opportunity to learn how to play songs by their favorite artists as well. Through learning repertoire from a wide variety of music styles students will apply music principles that will provide a solid foundation for future success on the guitar. This course is offered on timetable during the semester.

### **GUITAR LEVEL TWO**

**#387**

Guitar Level Two is offered to students in grades 9 through 12 interested in continuing their guitar studies and have successfully completed Guitar Level One. Music fundamentals will be reinforced by focusing on how to play advanced chords, scale shapes, strumming and picking techniques and finger-style. Students in level two will learn to play a wide variety of music and how to apply music principles by learning their own repertoire and writing their own compositions. There will be a focus on playing in small groups and learning and to improvise in group settings. Those with previous experience on the guitar will be able to learn advanced techniques of improvisations in small group settings. This course is offered on timetable during the semester.

**PREREQUISITE:** #287 or private audition with instructor

### **GUITAR LEVEL THREE**

**#487**

Guitar Level Three is offered to students in grades 11 through 12 interested in continuing their guitar studies and have taken Guitar Levels One and Two. Advanced music fundamentals will be approached by focusing on how to construct extended and alternate chords and how to use these with the scale modes. Students in level three will begin to build their own repertoire and make their own arrangements of songs by learning the process of transcription and playing by ear. Rhythm studies will become a focus for playing in groups and composing. This course is offered on timetable during the semester.

**PREREQUISITE:** #387 or private audition with instructor

### **GUITAR LEVEL FOUR**

**#587**

Guitar Level Four is offered to students in Grade 12 interested in continuing their guitar studies and have successfully completed the first three levels. Advanced music principles include how to utilize voicings of extended and alternated chords and how to use these with the scale modes. Students in level four begin building their own repertoire of arrangements of songs by continuing the process of transcription and playing by ear. There will continue to be a focus in playing in groups and a strong emphasis on improvisation. This course is offered on timetable during the semester.

**PREREQUISITE:** #487 or private audition with instructor

## MUSIC - ORCHESTRAL STRINGS

### **STRING ENSEMBLE 9/10 ZBLOCK**

**#397**

### **STRING ENSEMBLE 11/12 ZBLOCK**

**#497**

In Strings Ensemble 9, 10, 11 and 12 students will have the opportunity to play a stringed instrument in a group setting. Advanced students will be given more challenging repertoire to play in smaller groups. As well, students that would like to learn violin, viola, cello, or upright bass, but have no formal training will be guided through the first steps of how to hold the instrument, how to set up and use the bow and how to read standard notation. Students must rent an instrument.

Guitar students that have successfully completed Level One guitar with Mr. Paterson are also able to participate in this class.

Please contact Mr. Paterson at [jpaterson@sd40.bc.ca](mailto:jpaterson@sd40.bc.ca) if you have questions about this class.

## MUSIC EXPLORATIONS

### **MUSIC EXPLORATIONS 9**

**#860**

### **MUSIC EXPLORATIONS 10**

**#861**

### **MUSIC EXPLORATIONS 11**

**#862**

### **MUSIC EXPLORATIONS 12**

**#863**

This class is an excellent choice for the mandolin, banjo, or ukelele player that would like accompany themselves on their own instrument. This course is offered to those who want to learn how to play an instrument in a self-paced, relaxed manner. As well, beginning to advanced level students can improve their technical skills as well as learn the fundamentals of reading and writing music. In class performance opportunities will be available to those that want to perform as soloists or as part of small groups. For students interested in band who have no experience on a band instrument, this is course is a viable option. Students must provide their own instruments. This course is offered on timetable during the semester.



# VISUAL AND PERFORMING ARTS

## MUSIC- JAZZ BAND

### **JAZZ BAND 9 Z BLOK**

**#262**

This class is comprised of trumpets, saxophones, trombones and rhythm section (acoustic/ electric bass, drums, guitar, piano). Students will learn jazz repertoire and focus on learning basic jazz technique and theory, including improvisation. This course is highly participatory and involves at least two extracurricular performances. This group participates in a tour in the spring. This class is scheduled before school on Monday and Wednesday from 7:15am to 8:30am as well as one lunch a week.

**PREREQUISITE:** Students must be enrolled concurrently in Band 9 or have the instructor's permission.

### **JAZZ BAND 10 Z BLOK**

**#356**

This is a Z block class which is a continuation of Jazz Ensemble 9 with a focus on strengthening skills by rehearsing and performing increasingly challenging music. This course is highly participatory and involves at least two extra-curricular performances. This group participates in a tour in spring. This class is scheduled Tuesday and Thursday mornings from 7:15 am to 8:30 am as well as one lunch hour a week.

**PREREQUISITE:** Students must be enrolled concurrently in Band 10 or have the instructor's permission.

### **JAZZ BAND 11 Z BLOK**

**#470**

This is a Z block class and is a continuation of Jazz Band 10. Students will learn jazz repertoire and focus on strengthening jazz techniques. This course is highly participatory and involves at least two extracurricular performances. This group participates in a tour in the spring. This class is scheduled Monday and Wednesday mornings from 7:15am to 8:30am as well as one lunch hour a week.

**PREREQUISITE:** Students must be concurrently enrolled in Concert Band 11 or have the instructor's permission.

### **JAZZ BAND 12 Z BLOK**

**#572**

This is Z block class and is a continuation of Jazz Band 11. Students will learn jazz repertoire and focus on strengthening jazz techniques. This course is highly participatory and involves at least two extracurricular performances. This group participates in a tour in the spring. This class is scheduled Tuesday and Thursday mornings 7:15am to 8:30am as well as one lunch hour a week.

**PREREQUISITE:** Students must be enrolled concurrently in Concert Band 12 or have the instructor's permission.

## MUSIC TECHNOLOGY and COMPOSITION

### **MUSIC COMPOSITION AND TECHNOLOGY 12**

**#567**

### **MUSIC COMPOSITION AND TECHNOLOGY 11**

**#467**

### **MUSIC 10 GENERAL**

**#357**

### **MUSIC COMPOSITION AND TECHNOLOGY 9**

**#257**

Students learn the basics of music composition fundamental to all styles of Western music, from Classical and Jazz to Rock, Pop, Hip Hop, electronic music, and beyond. Students will create and record music using Logic Pro X, a cutting edge digital audio workstation made by Apple. At the end of the semester, students can choose to participate in the "Showcase", where they can perform or have one of their works performed for a live audience. This is a creative arts course, so interested students must be motivated to expand their knowledge of music through focused effort and experimentation.

**NO PREREQUISITE** or prior musical knowledge is necessary.

## PHOTOGRAPHY

### **PHOTOGRAPHY 11 & 12**

**#466 / #562**

This introductory photography course enables students to develop their knowledge and skills in the visual arts. The initial emphasis will be on the parts of a camera, the elements and principles of design, and the proper use of composition and post-processing software to communicate meaning to the viewer. Students will be tasked with a variety of practical assignments that will challenge their knowledge of the technical aspects of photography, while being able to create something original for themselves and their school community. Potential students are encouraged to have access to their own digital SLR camera with manual controls for more time behind the lens (this is not mandatory).

The school has cameras/lighting equipment for students to share.



# VISUAL AND PERFORMING ARTS

---

## VISUAL ART

### **ART 9 (Visual Arts 9)**

**#256**

This fun course teaches you how to draw and design pictures. Learn how to use different media, colour, line, and perspective techniques. Draw exciting projects you will be proud to hang on your wall! No drawing experience necessary.

**PREREQUISITE:** NONE

### **ART 10 (Visual Arts 10)**

**#352**

Explore and experiment! Art 10 continues to build your art skills. The course is designed to develop critical thinking and personal expression about the world you live in. You will explore drawing and painting techniques and experiment with different mark making tools. The course may also include sculpture, and basic print making.

**PREREQUISITE:** NONE

### **ART FOUNDATIONS 11**

**#463**

Make plans for the future in Art Foundations 11. This course expands on the experiences and skills gained Art 10. You will continue to play with media and manipulate images with an introduction to intermediate drawing techniques. Basic graphic design skills will be explored. Aspects of Art History will be introduced. You may begin to build portfolio samples for your graduation year.

**PREREQUISITE:** NONE, but Art 10 is recommended.

### **ART FOUNDATIONS 12**

**#563**

Making it right! Art Foundations 12 is a course designed to build your portfolio for possible enrolment to an art school. You begin to initiate design and material choices based on your preferences. There will be a focus on audience and meaning. You will be introduced to Art History as a way to influence your work. You may work in 2D and 3D, print making, graphic design and multi-media.

**PREREQUISITE:** Art Foundations 11





# VISUAL AND PERFORMING ARTS

## VISUAL ART- GRAPHICS, ANIMATION, VIDEO/FILM

### COMPUTER GRAPHICS & ANIMATION 9

#254

Explore your creative / artistic side by using the computer to create 2-D and 3-D graphics, animations, and image manipulations. You will watch a wide variety of animated films and learn about the different techniques. This could be the start of your career in graphics, animation, etc.

**PREREQUISITE:** NONE

### COMPUTER GRAPHICS & ANIMATION 11

#464

Do you want to learn how to draw professional-looking graphics and animation using amazing software? If you have a keen interest in this area and a willingness to learn then this is the course for you.

**PREREQUISITE:** NONE, but Computer Graphics & Animation 9 is recommended.

### COMPUTER GRAPHICS & ANIMATION 12

#564

Explore your own direction in computer graphics and animation. You be able to design your own projects to build a personal portfolio that shows what you can do when given the opportunity. Use this course to plan and prepare for possible post-secondary training and entry into the computer graphics / animation industry.

**PREREQUISITE:** Computer Graphics & Animation 11

### STUDIO ARTS 11: DRAWING and PAINTING

#460

Anyone can learn to draw like an artist! Learning how to draw is like learning to ride a bike: it's hard at first but then you fly! Draw to music, understand lighting, and learn how to compose a dynamic picture in acrylic, charcoal, pencil, pastel, ink and multi-media. This is a fun course designed to develop your natural skills. No drawing skill necessary, just a good attitude.

**PREREQUISITE:** (**NOTE:** This is not the prerequisite course for Art Foundations 12)

### STUDIO ARTS 12: DRAWING and PAINTING

#460

Anyone can learn to be a better artist! Become more aware of your subject matter and how you are rendering it. Learn about artists and art history by creating artwork. This fun course is designed to further develop your art skills.

**PREREQUISITE:** None, but Studio Arts 11 is recommended.

**NOTE:** This is not the prerequisite course for Art Foundations 12)

### VIDEO ARTS 10: MEDIA ARTS 10

#358

Video 10 is intended to be an enjoyable introduction to the basic vocabulary, equipment and techniques of media arts in general and video production in particular. There will be a "hands on" approach taken in this course: knowledge and experience will be actively gained, primarily by doing rather than by listening. Frequently we'll watch movies to analyze how concepts and techniques are used by professionals in the film industry.

**GUIDELINES:** Video 10 may be offered concurrently with Video 11

**NOTE:** This course is available to grade 9 students if space allows.

### VIDEO ARTS 11: MEDIA ARTS 11

#465

Here's your introduction to the world of film and television. Learn the basic vocabulary and techniques used in film and television. You may also be part of a team producing newscasts and other small productions (possibly assisting Video 12 students).

**PREREQUISITE:** NONE

### VIDEO ARTS 12: MEDIA ARTS 12

#565

Video 12 students direct their own productions in the studio and on location. They may also assist NWSS staff and students in recording events and presentations or creating learning materials. Video 12 could prepare you for entry into a post-secondary school and a career television or film-making.

**PREREQUISITE:** Video 11.

**GUIDELINES:** Video 12 is offered concurrently with Video 11.



## VISUAL AND PERFORMING ARTS

### MUSICAL THEATRE PROGRAM - Grades 10, 11, 12, also open to Grade 9

Theatre Production 11	#870
Theatre Production/Management	#871
Theatre Production/Technical 12	#872
Musical Theatre 11 (BA)	#873
Musical Theatre 12 (BA)	#874

The Musical Theatre Program at NWSS has seen great success over the last 7 years with productions of Annie (2008), Bye Bye Birdie (2009), Grease (2011) and Footloose (2015). Each production played to sold out audiences and received accolades from many members of the community commenting on the high calibre of talent and polish. The new Musical Theatre Program will provide students opportunities to engage in this style of performance while receiving course credits for their efforts. This is a program that runs on a year when the Performing Arts Department in collaboration with Schools Out Productions is producing a large-scale musical. We will be producing a musical in Massey Theatre in 2016/2017 with rehearsals September to February, and performances in February 2017.

Students interested in participating in the Musical Theatre Program will fill out a regular program course sheet, clearly indicating their interest in the Musical Theatre Program. If selected to participate in this program, students will be hand scheduled into the program. Auditions for cast and applications for crew will be scheduled for the last week of March, 2016.

**The musical theatre program has three streams, all of which work together to produce a musical production**

1. Cast
2. Crew
3. Orchestra

#### **1. Cast Stream:**

For students interesting in singing, acting and dancing onstage as part of the show. Students will audition for the cast in Spring 2016. Students do not have to be strong in all three disciplines to audition, but rather must have interest and enthusiasm for musical theatre. After the audition, selected students will be placed in two classes:

*Theatre Productions: Musical and Musical Theatre.*

*Theatre Productions: Musical* is scheduled on the timetable, semester one, as an elective course.

*Musical Theatre* is an after-school Z block twice a week, plus additional time on weekends close to the performance date.

**Courses: Theatre Productions: Musical Theatre**

#### **2. Crew stream:**

For students interested in learning about the behind-the-scenes aspects of musical theatre while being involved in the creation of a large-scale production. Crew will develop the artistic abilities and technical skills, as well as learn about production design, technical theatre and theatre management. Crew responsibilities can include sets (design, creation and movement during show), props, lighting, sound, costumes, hair/makeup, marketing and management. Students receive credit for *Theatre Productions: Musical*. This stream will require some additional extra-curricular time commitments, particularly leading up to the performances and during tech/performance week.

**Course: Theatre Productions: Musical**

#### **3. Orchestra stream:**

Students who play instruments at a high level can consider joining the production as orchestra members. The live orchestra plays for all performances, as well as rehearses independently from the cast. Rehearsals will be extra-curricular, with increased involvement and time in the weeks leading up to the show dates. Musicians will be selected based on an audition or by invitation of the band leader. Auditions will take place Spring 2016. Depending on the musical chosen, the band may need woodwind, brass, strings, piano, guitar and percussion/drum set. Students in the band will register for Musical Theatre, a single arts course credit.

**Course: Musical Theatre**

**PREREQUISITES:** Students involved in the Musical Theatre Program must be registered in either dance, drama or music courses concurrently. Students planning to audition should indicate their interest by circling the Musical Theatre program option at the top of the course selection sheet. Students then fill out a regular course selection sheet indicating the courses above as their #1 elective choice/Z block choice.

**For more information, please the school website [www.nwss.ca](http://www.nwss.ca) and click on Musical Theatre Program.**