

NWSS Course Description Booklet



Updated January 2018

APPLIED DESIGN SKILLS AND TECHNOLOGY (ADST)

Applied Design Skills and Technology includes courses in Business Education, Information and Communication Technology, Culinary Arts, Home Economics and Technical Education

ADST- BUSINESS EDUCATION

ENTREPRENEURSHIP and MARKETING 10

MADEM10

Marketing skills and strategies are applicable to every career. Entrepreneurship and Marketing 10 is a course that looks at basic marketing and business principles including entrepreneurship, marketing research, product planning, branding, packaging, pricing, sales promotion and advertising. Students will gain valuable experience in school based projects. This is a must course for any student who is interested in business or who is looking for a practical way to apply their creativity.

ACCOUNTING 11

MAC--11

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

A fee may be charged for this course.

ACCOUNTING 12

MACC-12

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.

RECOMMENDED: Accounting 11.

A fee may be charged for this course.

BUSINESS COMPUTER APPLICATIONS 11 (KEYBOARDING)

MBCA-11

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.

MARKETING 11

MMK--11

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.

MARKETING 12

MMK--12

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

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

RECOMMENDED: Marketing 11

ADST- CULINARY ARTS & HOME ECONOMICS

ADST FOOD STUDIES 10

MFDN-10

**open to grade 9 and 10 students*

**meets the requirement for ADST 9*

- Gain independence as you develop safe and sanitary work habits
- Utilize common kitchen appliances
- Explore new recipes and ingredients in creating food
- Design food in cooking challenges
- Meet new people as you create and share meals
- Grow food in our school garden, and use what we grow in your cooking
- Link eating practices with your wellness

ADST CULINARY ARTS 10

MCUL-10

- Craft amazing and fun foods using knives, flames and creative chemistry
- Work side by side with culinary experts to create gourmet foods and bakery items
- Be a key part of the team that develops entire meals for the whole school
- Students will earn a Food Safe Level One Certificate.

A fee may be charged for this course.

ADST FAMILY AND SOCIETY 10

MFAMS-10

Families in Society 10: 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. **Families in Society 10** focuses on the family and how it relates to the individual, to others, and to the world. Societal and cultural influences will be included, as will factors involved in interpersonal relationships in families.

A fee may be charged for this course.

ADST TEXTILES 10

MTXT-10

Are you interested in sewing? An exciting opportunity awaits you! Textile items, from inspiration to final product, are taken through the design process. Raw materials, design alterations and upcycling will be covered, taking into account principles of design, as well as environmental and ethical issues. Several textile items will be created using a variety of hand and machine sewing techniques. This course ranges from basic to semi-advanced construction techniques. 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. 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.

A fee may be charged for this course.

ADST CULINARY ARTS 11

MCAFT11 /

MCAFT12

- Design fun menu items to contribute to the school community
- Operate specialty restaurant equipment including induction burners, flame broilers and convection ovens
- Utilize fresh, local, sustainable ingredients to deliver healthy culinary delights
- Students will earn a Food Safe Level One Certificate which can help them get hired in restaurants.

A fee may be charged for this course.

ADST FAMILY STUDIES 11

MFM--

11

Interpersonal and Family Relationships 11: 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. **Interpersonal and Family Relationships 11** focuses on social, family, romantic, workplace and community relationships. Committed relationships and cultural influences will be included.

A fee may be charged for this course.

ADST FOOD STUDIES 11

MFDN-11

**open to grade 11 and 12 students*

- Develop and modify your own recipes
- Prepare food using appliances such as immersion blenders, electric grills, food processors
- Experience the diversity of global cuisines
- Design food in cooking challenges
- Consider issues involved with food security
- Meet new people as you create and share meals
- Grow food in our school garden, and use what we grow in your cooking
- Students may be able to earn a Food Safe Level One Certificate which can help them get hired in restaurants. For that, a fee will be charged.

ADST TEXTILES 11**MTXT-11**

Are you interested in sewing? An exciting opportunity awaits you! Textile items, from inspiration to final product, are taken through the design process. Raw materials, design alterations and upcycling will be covered, taking into account principles of design, as well as environmental and ethical issues. Several textile items will be created using a variety of hand and machine sewing techniques. This course ranges from basic to semi-advanced construction techniques. 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. 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.

ADST CULINARY ARTS 12**MCAFT12**

- Invent new menu items and blend flavours to create unique culinary experiences
- Freedom to choose individual experience based on your passions and interests
- Develop your artistic flare through such experiences as decorating pastry items and plating
- Students will earn a Food Safe Level One Certificate which can help them get hired in restaurants.

A fee may be charged for this course.

ADST FAMILY STUDIES 12**MFM--12**

Child Development and Caregiving 12: 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. **Child Development and Caregiving 12** focuses on pregnancy, infancy, caregiving and child development. The acclaimed 'Baby Think it Over' infant simulator program will be included.

A fee may be charged for this course.

ADST TEXTILES 12**MTXT-12**

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. Textile items, from inspiration to final product, are taken through the design process. Raw materials, design alterations and upcycling will be covered, taking into account principles of design, as well as environmental, legal, and ethical issues. Several 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.

ADST-INFORMATION AND COMMUNICATIONS TECHNOLOGY

WEB DEVELOPMENT 10

MMEDD10

Topics: 1. Getting started & Introduction; 2. Text formatting; 3. Images; 4. Body and anchor tags; 5. Tables; 6. Frames; 7. Cascading style sheets; 8. Advanced CSS; 9. Dynamic HTML; 10. Mini project; 11. JavaScript; 12. Embedding JavaScript; 13. Statements; 14. Popup boxes; 15. Operations; 16. Variables; 17. If...else statements; 18. For & while loops; 19. Functions; 20. String & date objects; 21. Math & RegExp objects; 22. Arrays; 23. Forms; 24. Conclusion; 25. JavaScript projects; 26. Web Design Project

COMPUTER STUDIES 10

MCSTU10

Application software: Scratch

Topics: 1. Getting Started & Introduction; 2. Motion Part 1; 3. Motion Part 2; 4. Animating Part 1; 5. Animating Part 2; 6. Pen blocks; 7. Sound blocks; 8. Interactive art; 9. Simulation and project; 10. Problem solving; 11. Operating system; 12. Path finding; 13. Dijkstras algorithm; 14. Arcade; 15. Platform; 16. Puzzle; 17. Adventure role play; 18. Simulation project; 19. Game apps; 20. Project

COMPUTER PROGRAMMING 11 (GAME FOCUS)

MICTM11

COMPUTER PROGRAMMING 12 (GAME FOCUS)

MICTM12

Game engine: Unreal Development Kit (UDK)

Topics: 1. Getting Started & Introduction; 2. Room; 3. Doorway; 4. Materials; 5. Static & fractured mesh; 6. Water and post process volumes; 7. Terrains; 8. Gun and vehicle pickups; 9. Sky domes; 10. Doors and sound cues; 11. Viewpoint toolbar; 12. Geometry mode; 13. Materializing and lighting; 14. Static mesh and lighting; 15. Kismet; 16. Particle systems; 17. Physics; 18. Camera animations; 19. Material animations; 20. Health system and music; 21. Coding and scripting

COMPUTER PROGRAMMING 11 (PROGRAM FOCUS)

MICTP11

COMPUTER PROGRAMMING 12 (PROGRAM FOCUS)

MICTP12

Languages: C++, Java, Python IDE: Visual Studio, Eclipse, PyCharm

Topics: 1. Getting Started; 2. First steps; 2a. Built-in functions (or methods); 3. Storing information; 4. Creating functions (or methods); 5. Booleans; 6. Branching; 7. Building better programs; 8. Iteration using while; 9. Storing elements in a sequence; 10. Iteration using for; 11. Bundling information into objects; 12. Structing data; 13. Recursion; 14. Understanding memory; 15. More ways of storing data; 16. Data structures; 17. Graph theory; 18. Dynamic programming; 19. Greedy algorithms; 20. Canadian computing competition

DESKTOP PUBLISHING 11

YCCT-1ADP

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

YCCT-2ADP

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.

YEARBOOK 12

YCCT-2AYB

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, copywriting, 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.

DIGITAL MEDIA 11

MICTS11

DIGITAL MEDIA 12

MICTS12

Application software: Sony Vegas Pro

Topics: 1. Getting Started & Videos; 2. Moving items; 3. Text editing; 4. PhotosPicturesCrop; 5. Transitions; 6. Video Event FX (1); 7. Video Event FX (2); 8. Video Event FX (3); 9. Video Event FX (4); 10. Media generators; 11. Trimmer; 12. Bezier masks; 13. Things to know; 14. Slow motion pro type title; 15. Light effects; 16. Dynamic 3D text; 17. Advanced 3D text (1); 18. Advanced 3D text (2); 19. Shattering text; 20. Falling light objects; 21. Flying images; 22. Butterfly template; 23. Unfolding images (1); 24. Unfolding images (2); 25. 3D Cube in motion; 26. Multi-screen 3D; 27. Multi-camera I; 28. Multi-camera II; 29. Stereoscopic 3D; 30. Projects

ADST-TECHNOLOGY EDUCATION

ADST – POWER TECHNOLOGY (formerly Tech 9)

MADPT09

Power 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. Power Technology 9 is a course in which students learn to safely and skillfully use hand and machine tools. This course will touch on many technology areas such as; Design Engineering & Architecture; Engineering Coding & Robotics; Metalwork, Mechanics & Bikes; Woodcraft / Maker Electronics. Students will use these newly acquired skills to develop interesting and challenging projects and competitions.

ADST 9 – DESIGN ENGINEERING & ARCHITECTURE 09

MADD-

This is an introductory course where students will Invent, Design, Create, Construct, Make and Build using 3D printers, Computerized Machines, Laser and Vinyl cutters. You will experience and produce individual projects while operating with the most current software.

ADST 9 – ENGINEERING, CODING, ROBOTICS

MADER09

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. The main project is a VEXIQ robot. This robot and controller will be assembled and programmed and will be able to perform various tasks and competitions. This course is also an introduction to 3D printing and poly urethane casting.

ADST 9 – METALWORK, MECHANICS & BICYCLES

MADM-09

This is an introductory course where metalworking and bike mechanics and repair are introduced and covered. Hand and power tool safety and use are introduced. The objective of this course is the design and making of metal projects, how small gas engines work and basic bike repair. It is a fun, learning filled environment where safety, the function of design and making are highlighted. The projects will include a name tag, Spintop, a welded project using braising, a forged metal leaf. An introduction into basic bike repair and the function of the parts is covered.

ADST WOODWORK 9 – WOOD CRAFT / MAKER

MADW-09

This is an introductory woodworking and maker course. Students will craft wood projects using portable and stationary power tools. They will utilize safe woodworking processes to create projects with professional results.

ADST-9-ART-JEWELRY

XLDC--09J

In this introductory Jewelry course students will be introduced to the fundamental techniques used in producing constructed and cast jewelry. Basic skills will be taught such as cutting, filing and polishing metals and the use of jeweler's tools. Students will be designing and producing unique metal art and jewelry using techniques such as wire and bead, sheet metal jewelry, copper enameling, silver soldering, cuttlebone casting, glass bead making to make different styles of earrings, bracelets and pendants

ADST-10: DESIGN ENGINEERING & ARCHITECTURE

MTDRF10

In this course students will Invent, Design, Create, Construct, Make and Build using 3D printers, Computerized Machines, Laser and Vinyl cutters. You will experience and produce individual projects while operating with the most current software. This level one course covers some of the following topics: House Design, Interior Design, Industrial Design.

ADST-10: ENGINEERING, CODING, ROBOTICS

MTEAR10

This is an introductory engineering course focusing on the Engineering Design Process, robotics, coding 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. The course is based around two main projects. First a mechatronic project using a VEX-EDR Platform, then an Arduino based project. Those project will be manufacturing parts using a 3D printing.

ADST –10: METALWORK, MECHANICS & BICYCLES

MTMET10

This course offers a full semester of metalwork covering basic metal skills such as: cutting, filing, sanding, and buffing of metal for the hand tool projects. Students will then learn how to turn metal on the lathes as well as how to oxyacetylene gas, arc and MIG weld. Students will also learn how to use the plasma cutter, the forge and the kiln. Once the basic projects are completed, students will have lots of opportunities to choose from a variety of choice projects including items such as Art Metal Jewelry, blacksmithing, mini bikes, medieval weaponry and go-karts.

ADST- WOODWORK 10: WOOD CRAFT / MAKER**MWWK-10**

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.

TECHNOLOGY 10– ART JEWELRY**MMFMJ12**

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 with the opportunity to explore advanced methods of jewelry making. Basic skills will be learned such as cutting, filing and polishing metals and the use of jeweler's tools. The design process will be a significant component to the course. It is recommended to document all ideas, sketches and drawings in a design sketchbook and photograph created work. Students will be designing and producing unique metal art and jewelry using techniques such as wire and bead, sheet metal jewelry, copper enameling, silver soldering, cuttlebone casting, glass bead making, and lost wax casting. Students will also integrate the use of recycled materials to address important environmental issues in our society. There may also be entrepreneurial opportunities in the senior level of this course.

**SKILLS EXPLORATION 10 _____
0A****Youth Explore Trade Skills****MSTX-****SKILLS EXPLORATION 11/12****MSTX-2A**

Are you interested in getting a QUALITY job right after high school graduation and earning better than average wages?

- Learn by doing in apprenticeship career areas mainly in the construction industry.
- Operate tools and build items in hands-on activities in such areas as Electrical, Piping, Framing, Finishing carpentry, Drywall and other trades.
- Choose whether or not to enroll in an apprenticeship (TRN) program in your Grade 11 or 12 year and, if so, know which program would be the best fit for you.
- Some certifications may be available (i.e. WHMIS, CSTS, Forklift training, First Aid); field trips and job shadows will be part of the program.

Open to: Grade 10/11/12 students

Location: NWSS with potential work experience at job site(s)

High school credits: 1 course (4 credits)

Cost paid by student: \$50 to cover a portion of the cost of construction materials; costs for any certifications earned, steel toed boots required (may be borrowed from school)

Automotive:**AUTOMOTIVE TECHNOLOGY 11****MAT--11**

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.

AUTOMOTIVE TECHNOLOGY 12**MAT--12**

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.

Woodwork:**CARPENTRY AND JOINERY (WOODWORK) 11****MCJ--11**

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.

CARPENTRY AND JOINERY (WOODWORK) 12

MCJ--12

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.

RECOMMENDED: Carpentry and Joinery 11

A fee may be charged for this course.

CARPENTRY AND JOINERY 12: WOODCRAFT PRODUCTS

MCJP--12

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 woodworking and wood carving tools. Students will be involved in woodcarving, intarsia, model making, wood turning, special wood crafting design projects.

Drafting / Architecture & Industrial Design:

DRAFTING AND DESIGN 11

(ARCHITECTURAL, ENGINEERING & INTERIOR DESIGN / 3D PRINTING)

MDDF-11

In this course students will Invent, Design, Create, Construct, Make and Build using 3D printers, Computerized Machines, Laser and Vinyl cutters. You will experience and produce individual projects while operating with the most current software. This level one course covers some of the following topics: House Design, Interior Design, Industrial Design.

DRAFTING AND DESIGN 12

(ARCHITECTURAL, ENGINEERING & INTERIOR DESIGN / 3D PRINTING)

MDD--12

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: ADST 10/11: Drafting and/or Drafting and Design 10 or 11

DRAFTING AND DESIGN 12A: ADVANCED DESIGNS

MDDA--12

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.

RECOMMENDED: Drafting and Design 12

ENGINEERING 12 (VEX ROBOTICS / ELECTRONICS-Arduino)

MEL--12

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.

RECOMMENDED: Engineering 11

INDUSTRIAL DESIGN 11

(ENGINEERING & MECHANICAL DESIGN & 3D PRINTING)

MID--11

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.

INDUSTRIAL DESIGN 12

(ADVANCED ENGINEERING & MECHANICAL DESIGN & 3D PRINTING)

MID--12

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.

RECOMMENDED: Industrial Design 11

Electronics, Engineering and Robotics:

ENGINEERING 11 (VEX ROBOTICS / ELECTRONICS-Arduino)

MEL--11

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)

Metalwork:

METAL FABRICATION AND MACHINING 11

MMFM-11

Metalwork 11 will develop further the basic metalwork skills learned in Technology 10: Metal Work 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.

RECOMMENDED: Technology 10: Metalwork Recommended

**METAL FABRICATION AND MACHINING 11
BICYCLE MAINTENANCE AND REPAIR**

MMFM-11BM

This course is open to students in grades 10-12. 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.

**METAL FABRICATION AND MACHINING 12
BICYCLE MAINTENANCE AND REPAIR**

MMFM-12BM

This course is open to students in grades 10 – 12. In this program students will hone their repair and maintenance skills and also be introduced to the building of custom bike frames. Interested students will have the opportunity to delve deeper into the specialized parts and tools needed in custom built and high end bicycles. Bicycle riding safety will be touched upon during the supervised rides that the class will go on. There may also be the possibility of entrepreneurial opportunities for this course.

METAL FABRICATION AND MACHINING 12

MMFM-12

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.

RECOMMENDED: Metal Fabrication and Machining 11

**METAL FABRICATION AND MACHINING 12:
ART METAL AND JEWELRY**

MMFMJ12

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.

**METAL FABRICATION AND MACHINING 12B
ART METAL AND JEWELRY**

MIDS-2B

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.

RECOMMENDED: Metal Fabrication and Machining 12: Art Metal and Jewelry Recommended

APPRENTICESHIP AND CAREER PROGRAMS

Programs that get you a competitive advantage in your life, your university or college application and getting the job!

NOTE: Apprenticeship (TRN) programs require submission of an application package and an interview. See www.nwss-apprenticeship.com or a Career Programs teacher for an [application form](#). Skills Exploration 10/11/12 DOES NOT require an application.

IN HOUSE APPRENTICESHIP PROGRAMS (up to 16 seats PER PROGRAM per year):

CARPENTRY APPRENTICESHIP PROGRAM MCARP2A, MCARP2B, MCARP 2C, MCJR-12

Build carpentry projects with portable and stationary power tools

- Develop a diverse set of carpentry skills in understanding residential and commercial construction
- Work side by side with Red Seal Carpenters and instructors from BCIT

Open to: Grade 11 & 12 students

Location: New Westminster Secondary School with 6 weeks at BCIT

High school credits: 4 grade 12 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 \$140)

[Carpentry video](#)

PLUMBING APPRENTICESHIP PROGRAM **2D**

PITA-2A, PITA-2B, PITA-2C, PITA-

- Craft water piping and drainage systems
- Operate power tools and machinery used within the Plumbing trade
- Manage teams as you design, build and commission projects working with Plumbing companies in the community

Open to: Grade 11 & 12 students

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

High school credits: 4 grade 12 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.

[Plumbing video](#)

PROFESSIONAL COOK (CHEF) PROGRAM

PZ--2APC, PZ--2BPC, PZ--2CPC, PZ--2DPC

- Create culinary masterpieces in a dynamic team experience
- Work side by side with Red Seal Chefs at NWSS and VCC
- Use industry equipment and processes including sous vide, commercial mixers and immersion blenders

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: 6 grade 12 courses = 24 credits (Cook 12A, 12B, 12C, 12D, 12E plus Work Experience 12A), 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 ADST Culinary Arts 10, 11, or 12 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 \$140)

[Professional Cook video](#)

SKILLS EXPLORATION 10

Youth Explore Trade Skills

MSTX-0A

SKILLS EXPLORATION 11/12

Youth Explore Trade Skills

MSTX-

2A

Are you interested in getting a QUALITY job right after high school graduation and earning better than average wages?

- Learn by doing in apprenticeship career areas mainly in the construction industry.
- Operate tools and build items in hands-on activities in such areas as Electrical, Piping, Framing, Finishing carpentry, Drywall and other trades.
- Choose whether or not to enroll in an apprenticeship (TRN) program in your Grade 11 or 12 year and, if so, know which program would be the best fit for you.
- Some certifications may be available (i.e. WHMIS, CSTS, Forklift training, First Aid); field trips and job shadows will be part of the program.

Open to: Grade 10/11/12 students

Location: NWSS with potential work experience at job site(s)

High school credits: 1 course (4 credits)

Cost paid by student: \$50 to cover a portion of the cost of construction materials; costs for any certifications earned, steel toed boots required (may be borrowed from school)

YOUTH WORK IN TRADES 11A & B, 12A & B

11AMSSA-1A, 11BMSSA-1B, 12AMSSA-2A, 12BMSSA-2B

- Get paid to learn while earning hours toward your apprenticeship
- Work on a job site building, creating, repairing, operating machinery or doing other apprenticeship tasks

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

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 journeyman

Cost paid by student: \$0

CAREER LIFE EDUCATION

CAREER LIFE EDUCATION 10 (REQUIRED)

MCLE-10

Career Life Education 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 this course, will be responsible for continuing this process throughout Grade 10 and 11 and will complete and present this 4 credit requirement in Grade 12.

GRADUATION TRANSITIONS PROGRAM/STUDY (REQUIRED)

MGT---STU

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 (REQUIRED)

MGT---

IND

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!

WORK EXPERIENCE 12A or 12B (ELECTIVE)

XWE--12A, XWE--12B

Are you trying to figure out what to do once you graduate from high school? Do you think you are sure but have never actually tried the work out?

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

- Apply classroom learning in a context outside of school and bring back to the classroom new perspectives
- Network with employers for future jobs
- Negotiate and manage your own schedule

20% of work experience course hours is devoted to in-school learning 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 a Career Programs teacher is required in order to ensure there is an appropriate match for work placements.

OFF CAMPUS APPRENTICESHIP PROGRAMS: (1-2 seats PER PROGRAM per year)

AUTOMOTIVE REFINISHING PREP AND PAINTING APPRENTICESHIP PROGRAM (TRN)

PZ--2AAT, PZ--2BAT, PZ--2CAT, PZ--2DAT, PZ--2EAT

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) in 2nd 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 auto body 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 (TRN)

PZ---2ABP, PZ--2BBP, PZ--2CBP, PZ--2DBP, PZ--2EBP, PZ--2FBP

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 1st 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

ELECTRICIAN APPRENTICESHIP PROGRAM (TRN)

PA--2AEL, PA--2BEL, PA--2CEL, PA--

2DEL, PA--2EEL, PA--2FEL

Open to: Grade 12 students

Location: BCIT in Burnaby (semester 2 only, ends in August)

High school credits: 6 courses = 24 credits (PSIZ 12A, 12B, 12C, 12D, 12E, 12F) in 2ND semester,

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

Minimum requirements: Good overall physical health with good hearing, eyesight and hand/eye coordination
English: two years of education in English in an English-speaking country with one of the following: English 12 (50%) or Communications 12 (67%)

Math: one of the following: Apprenticeship and Workplace Mathematics 11 (60%) or Foundations of Mathematics 11 (60%) or Pre-Calculus 11 (60%)

Science: one of the following: Physics 11 (50%) or Chemistry 11 (50%)

Cost paid by student: \$500 (for materials used at BCIT), and approximately \$400 for books/tools

Main learning: Plan, assemble, install, test, repair and maintain electrical equipment and systems in residential, commercial, industrial and marine facilities; read blueprints and understand building codes; connect wiring to control panels and electricity sources; install electrical control devices such as switches and outlets

METAL FABRICATION APPRENTICESHIP PROGRAM (TRN)

PA--2AMF, PA--2BMF, PA--2CMF, PA--2DMF, PA--2EMF, PA--2FMF

Open to: Grade 12 students

Location: BCIT in Burnaby (semester 2 only, ends the 1st 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: Build 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 (TRN)

PA--2AMR, PA--2BMR, PA--2CMR, PA--2DMR, PA--EMR, PA--2FMR

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 (TRN)

PA--2AMT, PA--2BMT, PA--2CMT, PA--2DMT, PA--2EMT

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 (TRN)

2APD

MIDS-

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 (PSIA 12A)

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

ENGLISH LANGUAGE ARTS

ENGLISH LANGUAGE ARTS 9

Students must take English Language Arts 9. This course is required by the Ministry and is worth four credits. Like the senior courses, ELA 9 courses include the five Big Ideas and will incorporate Indigenous content and principles of learning. Students are expected to practice self-assessment of the core competencies and will be assessed on their skills in: reading, listening, viewing, writing, speaking and representing.

ENGLISH LANGUAGE ARTS 9 (4 credits)

MEN--09

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

ENGLISH LANGUAGE ARTS 10

Students must select one of the English Language Arts 10 options from below. Each course is a combination of two Ministry developed courses worth two credits each. Each option includes three or more common Big Ideas and will incorporate Indigenous content and principles of learning. Students are expected to meet the same curricular

outcomes, and all students will be assessed on their skills in: reading, listening, viewing, writing, speaking and representing.

LITERARY STUDIES & COMPOSITION 10 (4 credits)
MCMP510

MLTST10 &

This course was designed for students to explore literature while developing skills in written communication in a variety of contexts. The course allows students to read, select, analyze and synthesize literature as they explore literary works in a variety of media, from a range of geographic areas and from a range of voices. This course is designed to support students in their development of written communication through a critical process of questioning, exploring, and sampling. The course also provides students with opportunities to think critically as they explore, extend, and refine their own writing. Within a supportive community of writers, students will work individually and collaboratively to explore and create coherent, purposeful compositions. They will develop their craft through processes of drafting, reflecting, and revising to build a body of work that demonstrates breadth, depth, and evidence of writing for a range of real world experiences.

LITERARY STUDIES & CREATIVE WRITING 10 (4 credits)
MCTWR10

MLTST10 &

This course was designed for students to explore literature while developing their own creative expression through language. This course allows students to read, select, analyze and synthesize literature as they explore literary works in a variety of media, from a range of geographic areas and from a range of voices. The course provides students with in-depth opportunities to explore and practice the craft of writing by examining personal and cultural identities, memories, and stories in a wide range of genres. Within a supportive community of writers, students will collaborate and develop their skills through writing and design processes. This course is intentionally grounded in the exploration and application of writing processes, inviting students to express themselves creatively as they experiment with, reflect on, extend, and refine their writing.

LITERARY STUDIES & NEW MEDIA 10 (4 credits)

MLTST10 & MNMD10

This course was designed for students to explore literature while examining the changing role of technology in the past, present and future. The course allows students to read, select, analyze and synthesize literature as they explore literary works in a variety of media, from a range of geographic areas and from a range of voices. Students will explore literary traditions and past anxieties and speculations about technology from past and current literary traditions while recognizing that digital literacy is an essential characteristic of the educated citizen. Coursework is aimed at providing students with a set of skills vital for success in an increasingly complex digital world by affording opportunities to demonstrate understanding and communicate ideas through a variety of digital and print media.

ENGLISH LANGUAGE ARTS 11

Students must complete English Language Arts 11 for Graduation. This course is a continuation of four credit courses developed by the Ministry of education and will incorporate Indigenous content and principles of learning. Students are expected to meet the curricular outcomes and all students will be assessed on their skills in: reading, listening, viewing, writing, speaking and representing.

ENGLISH 11 (4 credits)

MEN--11

Students in English 11 explore a range of texts including: novels, short stories, poems, plays, films, graphic novels and a variety of non-fictional material. Oral presentations, analysis and synthesis of texts and creative or personal compositions are the core skills students will practice and demonstrate.

ENGLISH LANGUAGE ARTS 12

Students must select one **MUST** take COMMUNICATIONS 12, ENGLISH 12 or ENGLISH FIRST PEOPLES 12 and must write the associated provincial examination worth 40% of their final mark. Students **MAY ALSO** also choose one of the other ELA 12 course offerings as an elective. All courses will incorporate Indigenous content and principles of learning. Students are expected to meet the curricular outcomes and all students will be assessed on their skills in: reading, listening, viewing, writing, speaking and representing.

COMMUNICATIONS 11 (4 credits)

MCOM 11

The Communications 11 curriculum is designed for students who may not plan to pursue literary or 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: communicate clearly, create real-life written products and explore literary works as a way of knowing, developing personal values, understanding our literary and multicultural heritage and broadening experience.

COMMUNICATIONS 12 (4 credits)

MCOM-11 MCOM-12

The Communications 12 curriculum is designed for students who may not plan to pursue literary or academic studies beyond Grade 12. The course is designed for students who struggled to meet the learning outcomes in English 11, or, who have taken Communications 11 and wish a continuance of that course. Communications 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. **Communications 12 Exam Details:**

<https://www.bced.gov.bc.ca/exams/specs/grade12/comm/2016.htm>

ENGLISH 12 (4 credits)

MEN--12

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 12 Exam Details:**

<https://www.bced.gov.bc.ca/exams/specs/grade12/en/2016.htm>

ENGLISH 12- FIRST PEOPLES (4 credits)

MEFP12

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. Like English 12, students in EFP 12 are expected to demonstrate understanding of sophisticated texts of recognized literary merit and complete challenging assignments to rigorous academic standards. Students in English 12 First Peoples write a provincial examination (worth 40% of the final course mark) and satisfy their ELA 12 requirement for Graduation.

CREATIVE WRITING 12 (4 credits)

MWR--12

Master the art of 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 LITERATURE 12

MLIT-12

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.

ENGLISH LANGUAGE LEARNING (ELL)

ENGLISH LANGUAGE LEARNING

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 (1, 2 or 3) 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 10

XESL-09

This course is designed to be a bridge between English Language Learning (ELL) and content course English 10. (Usually overall ELL level 3.5) Using oral, written, visual, and digital texts, students are expected individually and collaboratively to be able to: comprehend and connect texts while creating and communicating to demonstrate their learning. Students will practice their reading, writing, speaking, and listening skills through inquiry-based activities and projects while learning about language structures, devices and conventions. By the end of the course, students will demonstrate the ability to synthesize various forms of texts; show understanding on the relationship between texts and context; make connections between text to self and text to text; and question what we hear and read to become educated and engaged citizens.

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

ENGLISH LANGUAGE LITERACY 1

XESL-0901

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 2 & 3

XESL-0902, XESL-0903

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 focus of literature study is enjoyment rather than analysis. (Usually overall ELL level 2.5, or 3).

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

NWSS PRE-IB HONOURS PROGRAMME

The following courses are part of the NWSS Pre-IB Program.

To register for these courses, testing is required.

Please refer to the NWSS newsletter and/or the NWSS IB website for dates and times of orientation sessions and testing.

ENGLISH 9 HONOURS (NWSS Pre-IB)

MEN--09HON

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)

MEN--10H

This is an intensive courses designed for students intending to pursue the International Baccalaureate Programme. 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 10 HONOURS (NWSS Pre-IB)

MFR--10H

These are intensive courses designed for students intending to pursue the International Baccalaureate Programme. 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).

MATHEMATICS 9 HONOURS (NWSS Pre-IB)

MMA--09HON

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)

MFMP-10IB1

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)

XLDCA09

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.

NWSS PRE-IB PROGRAMME

SCIENCE 10 HONOURS (NWSS Pre-IB)

MSC--10H

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.

SOCIAL STUDIES 10 HONOURS (NWSS Pre-IB)

MSS--10H

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
- 20th Century Global conflicts
- Government in Canada *and*
- Geography

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 21st century.

IB BIOLOGY 11/12

IBIS-11 / IBIS-12 / IBIH-11 / IBIH-2ABIO / IBIH-2A

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

IGCH-11 / ICHH-11 / IGCH-12 / ICHH-2A / ICHH-2AZ

"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

IELM-11 / IELS-11 / #2402 / IELM-12 / IELS-12 / IELS-12-Z

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. <http://www.ibo.org/university-admission/ib-recognition-resources-and-document-library/#briefs>

IB FRENCH 11 / IB FRENCH 12

IFRS-11 / IFRH-11 / IFRS-2A / IFRH-2A

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)

RECOMMENDED: French Honours 9 & 10

IB HISTORY 11 / IB HISTORY 12

IHIS-11 / IHIH-11 / IHIS-12 / IHIH-2A / IHIS-12Z

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.

20th Century World History Topics: Authoritarian States in the 20th Century, Causes and Effects of 20th 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 / IMM--11 / #2513 / IMM--12

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

IMC--11 / IMC--2A / IMC--2A-Z

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

IPHS-11 / IPHH-11 / IPHS-12 / IPHH-2AZ / IPHH-2A

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

IPSY-11 / IPSH-11 / IPSY-12 / IPSH-12 / IPSH-12Z

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

ITK--11 / ITK--12

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

FRANÇAIS LANGUE 9

FFRAL09

Ce cours poursuit les objectifs du développement de la communication en offrant une étude plus approfondie de chacune des quatre habilités 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.

(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.)

RECOMMENDED: Français Langue 8

FRANÇAIS LANGUE 10

FFRAL10

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.

RECOMMENDED: 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

FFRAL11

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

RECOMMENDED: 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

FFRAL12

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

L'élève se préparera pour l'examen provincial de Français Langue 12. Pour ce faire, 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.

RECOMMENDED: 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

MFR--09

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.

RECOMMENDED: French 8

FRENCH 10 HONOURS (NWSS Pre-IB)

MFR--10H

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).

RECOMMENDED: French 8 and French 9 or French 9 Honours.

LANGUAGES

FRENCH 10

MFR--10

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.

RECOMMENDED: French 9

FRENCH 11

MFR--11

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.

RECOMMENDED: French 10

FRENCH 12

MFR--12

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.

RECOMMENDED: French 11. (A ,C standing or better is strongly recommended)

IB FRENCH 11 / IB FRENCH 12

IFRS-11 / IFRS-2A

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)

RECOMMENDED: French Honours 9 & 10

JAPANESE 9

MJA--09

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

MJA--10

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.

RECOMMENDED: Japanese 9

INTRODUCTORY JAPANESE 11

MBJA-11

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

MJA--11

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.

RECOMMENDED: Japanese 10 or Intro Japanese 11

JAPANESE 12

MJA--

12

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.

RECOMMENDED: 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.

PUNJABI 9

MPUN-09

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

MIPUN11

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

MPUN-

11

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' communication skills in written and oral Punjabi.

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

RECOMMENDED: Introductory Punjabi 11.

PUNJABI 12

MPUN-12

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.

RECOMMENDED: Punjabi 11

SPANISH 9

MSP--09

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 prerequisite for Spanish 9.

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

SPANISH 10

MSP--10

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.

Recommended: Spanish 9.

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

SPANISH 11 - INTENSIVE

MBSP-11IN

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**.

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

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

SPANISH 11

MSP--11

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.
Recommended: Intensive Spanish or Spanish 10.
Native speakers are encouraged to write the challenge exam for Spanish 11 credit.

SPANISH 12

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.

Recommended: Spanish 11.

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

MSP--12

LEADERSHIP DEVELOPMENT

CONFLICT RESOLUTION 11 Grades 9-12

YIPS-1C

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.

CONFLICT RESOLUTION ADVANCED Grades 10-12

YIPD-1B

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.

RECOMMENDATION: Conflict Resolution

CONFLICT RESOLUTION LEADERSHIP Grades 11-12

YIPS-2B

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.

RECOMMENDATION: Conflict Resolution Advanced

LEADERSHIP (9) , 10, 11, 12

XLEAD09 / YCPA-0A /YCPA-1A /YCPA-2A

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 in the early morning (7:30AM) in Room 253 throughout the year, students must be able to attend all regular meetings and commit to an additional 60 service hours at lunch and after school. Grade 9's may only apply for the program (if there is space) in second semester through the instructor.

ADMISSION / PREREQUISITE: Admission & final registration is by the instructor's recommendation only.

PEER TUTORING 11

YIPS-1A

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

YIPS-2A

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.

RECOMMENDED: Peer Tutoring 11

SPORT LEADERSHIP COHORT (3 courses)

YHRA-0A

Physical Education 10 MPE--10LED

Career and Life Education 10 MCLE 10

Leadership & Sport Conditioning 10 YHRA-0A

The SLC combines 3 courses, Physical Education 10, Planning 10, and Leadership & Sport Conditioning 10. The SLC will work to connect student-athletes' abilities in sport with engagement in learning and understanding how sport can be used in building their education, community connections and lives. Students will gain three course credits towards graduation as well as being provided the opportunity to complete volunteer hours towards graduation while continually improving their athletic potential. Please contact Mr. Oatway if you have any questions regarding the SLC or need more information at MACROBUTTON HtmlResAnchor coatway@sd40.bc.ca or website at MACROBUTTON HtmlResAnchor www.coachcoatway.com. Prerequisite: Must be a student athlete.

MATHEMATICS

MATH (MATHLAB)

MMA 9,WMPM 10/ AWM

11

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 9, 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

IMM--11 / IMM--12

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

IMC--11 / IMC--

2A

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

MMA--

09

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.

MATHEMATICS 9 HONOURS (NWSS Pre-IB)

MMA--

09HON

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.

WORKPLACE MATHEMATICS 10

MWPM-10

The Workplace Mathematics 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.

RECOMMENDED: Successful completion of Mathematics 9.

FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 10

MFMP-10

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.

RECOMMENDED: C+ or better in Mathematics 9.

MATHEMATICS 10 HONOURS (NWSS Pre-IB)

MFMP-10IB1

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

WORKPLACE MATHEMATICS 11

MAWM-11

The Workplace Math program is designed to prepare students for entry into the workforce. It is one of many Math 11 courses that satisfies 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.

RECOMMENDED: Successful completion of any Math 10 course.

FOUNDATIONS OF MATHEMATICS 11

MFOM-11

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. 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.

RECOMMENDED: C+ or better in Foundations of Mathematics and Pre-calculus 10

PRE-CALCULUS 11

MPREC11

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 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.

RECOMMENDED: C+ or better in Foundations of Mathematics and Pre-calculus 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 12

MPREC12

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 graphing calculator is not required but is encouraged.

RECOMMENDED: C+ or better in Pre-Calculus Mathematics 11

FOUNDATIONS OF MATHEMATICS 12

MFOM-12

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.

RECOMMENDED: C+ or better in Foundation of Mathematics 11

CALCULUS 12

MCALC12

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.

RECOMMENDED: Good standing in Pre-calculus 12

PHYSICAL EDUCATION

FOOTBALL ACADEMY (INTEGRATED FOOTBALL EDUCATION PROGRAM)

This course is designed to focus and encourage grade 9 through 12 student athletes' opportunities for individualized learning so they may identify and develop personal learning, as well as leadership and physical skills.

The academy is run during the Z block (after school) and involves participating on the Hyacks Football team and in the off-season program which runs the length of the school year.

The Hyack Football Program has produced 35 Canadian university graduates and 8 NCAA graduates as well as having 6 players move onto the CFL.

HOCKEY ACADEMY

New Westminster Secondary School and the Pacific Rim Hockey Academy have developed this course that provides male and female students with an opportunity to further develop their hockey skills, individual tactics, team tactics, team play/systems, strategy, off-ice training, special events, educational sessions, recreation and general health and wellness concepts. Students will be required to have some previous skating experience and preferably hockey skills.

Each student requires a full set of CSA approved hockey equipment, including neck guard.

LACROSSE ACADEMY

As Canada's national sport the NWSS lacrosse academy offers male and female athletes with the opportunity to experience the challenges and rewards of this exciting sport. Players of all skill levels will learn how to maximize their training while practicing and competing. Components consist of: on field skill development training, off field strength and conditioning, tactical and endurance training, sports psychology and nutrition.

PHYSICAL EDUCATION

FOUNDATIONS OF COACHING 12 2BCO

YLRA-

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

FEPSF09

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

EDUCATION PHYSIQUE 10 10

FEPH-

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

PHYSICAL EDUCATION 9

MPHE-09 MPHE-09BA

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 MPHED10BA

MPHED--10

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

MPE--11

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 11- ACTIVE LIVING Girls:

MPE--11A

Girls Active Living will provide the opportunity to discover ways to achieve overall health and well-being outside of the tradition sport setting. Students will learn alternate ways to participate more regularly in physical activity through a variety of exciting, fun, and engaging activities such as self-defense, Zumba, yoga, and other forms of group fitness. Students will also obtain the necessary education around nutrition and injury prevention in order to sustain an ongoing healthy lifestyle.

PHYSICAL EDUCATION 12

MPE--12

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

Open to all grade 10, 11 and 12 students

YHRA-1A

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 effects of exercise on their bodies.

RECOMMENDED: 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. This course may be scheduled before (7:15 am) or after school 3:15pm).**

SPORT LEADERSHIP COHORT (3 courses)

Physical Education 10 MPE--10LED

Planning 10 MPLAN10LED

Leadership & Sport Conditioning 10 YHRA-0A

The SLC combines 3 courses, Physical Education 10, Planning 10, and Leadership & Sport Conditioning 10. The SLC 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 being provided the opportunity to complete volunteer hours towards graduation while continually improving their athletic potential.

Please contact Mr. Oatway if you have any questions regarding the SLC or need more information at MACROBUTTON

HtmlResAnchor coatway@sd40.bc.ca or website at **MACROBUTTON** HtmlResAnchor www.coachcoatway.com. : Must be a student athlete.

SCIENCE

BIOLOGY 11

MBI--11

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

MBI--12

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 and biochemistry, cell processes and applications, and an extensive section on human physiology and anatomy.

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.

CHEMISTRY 11

MCH--11

Chemistry, the study of nonliving 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.

RECOMMENDED: Science 10, Math 10 STRONGLY recommends a minimum "C+" standing in both.

CHEMISTRY 12

MCH--12

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.

RECOMMENDED: Chemistry 11 - recommend at least a "C+" standing.

EARTH SCIENCE 11

MESC-11

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, labs and assignments completed in class, a lab exam and a term project.

RECOMMENDED: Science 10 and Math 10 with a minimum 60% average in both are recommended.

GEOLOGY 12

MGEOL12

Geology 12 continues the Geology section of the Earth Science 11 course. Topics include rocks and minerals, fossils and geologic time, resources, erosion and weathering, earthquakes, volcanoes and plate tectonics. Students have the opportunity to take part in an overnight field trip to Mount St. Helens in Late May or early June. Student evaluation includes many tests and quizzes based on in class labs and assignments as well as a lab exam and final test.

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

IB BIOLOGY 11/12

IBIS-11 / IBIS-12

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 animal behaviour and ecology.

IB Biology 12 begins with the biochemistry of macromolecules, 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

ICHH-11 / ICHH-

2A

"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

IPHS-11 / IPHS-12

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

IPHH-11 / IPHH-2AZ

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 subset of the HL program.

SCIENCE 9

MSC--09

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

FSCF-09

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'écologie sont les quatre unités étudiées dans le cours.

PHYSICS 11

MPH--11

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 "B" standing in both.

PHYSICS 12

MPH--12

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 "B" standing in both.

SCIENCE 10 HONOURS (NWSS Pre-IB)

MSC--10H

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 curriculums 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

MSC--10

Science 10 continues with the concepts and theories introduced in Science 9. Topics covered in the course include Genetics (heredity, DNA, natural selection and evolution), Chemistry (atomic theory, compounds and chemical reactions), Physics (radiation, potential and kinetic energy) and Astronomy (the Big Bang).

SCIENCE & TECHNOLOGY 11

MSCT-11

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

20th CENTURY WORLD HISTORY 12

MHI--12

This course in 20th century 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. The rise and rule of authoritarian regimes and global conflicts will also be examined in this course.

RECOMMENDED: Social Studies 11 or Explorations 11

BC FIRST PEOPLES 12

MFNS-12

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.

RECOMMENDED: Social Studies 11 or Explorations 11

COMPARATIVE CIVILIZATIONS 12

MCCN--12

This course explores humanity's journey through time, up to the 16th century. The course will examine ancient civilizations from Europe, Asia, Africa, and Mesoamerica that have greatly influenced the world. It 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.

RECOMMENDED: Social Studies 11 or Explorations 11 with a minimum achievement of 60% is recommended.

EXPLORATIONS 11

MSS--11

This new course emerges from the redesign of the BC curriculum. Students will examine contemporary issues at a local, national and international levels. Explorations 11 will explore four major themes: Cultures and Identities; Colonialism and Imperialism; Economy and Ecology; and Roles and Responsibilities in a globalized world. Students will investigate a combination of historical and contemporary sources in order to further develop their historical and critical thinking skills.

RECOMMENDED: Social Studies 10

EXPLORATION 11

FEFF11

Ce nouveau cours, Exploration 11, est un produit de la refonte du nouveau curriculum. Les élèves analyseront des enjeux contemporains au niveau local, national et international. Les thèmes suivants seront explorés : cultures et identités ; colonialisme et impérialisme ; économie et écologie ; rôles et responsabilités dans un contexte de mondialisation. Les élèves utiliseront diverses sources historiques et contemporaines afin d'approfondir leurs habiletés de pensée critique et historique.

RECOMMENDED: Sciences humaines 10

HUMAN GEOGRAPHY 12

MGEO12H

In this new course, students will focus on human activities and how they alter landscapes in a variety of ways. We will also analyze data from a variety of sources to allow students to better understand their globally connected world. Another aspect of study will be demographic patterns and population distribution and how they are influenced by physical features and natural resources. Relationships between cultural traits, the use of physical space, and impacts on the environment, including First Peoples cultures will also be studied.

RECOMMENDED: Social Studies 11 or Explorations 11

PHYSICAL GEOGRAPHY 12

MGEO12P

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 course also examines human activities and their interactions, and how resource use affects the environment. 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 in better understanding our globally connected world.

RECOMMENDED:: Social Studies 11 or Explorations 11

SOCIAL STUDIES

IB HISTORY 11 / IB HISTORY 12

IHH-11 / IHH-2A

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.

20th Century World History Topics: Authoritarian States in the 20th Century, Causes and Effects of 20th 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.

JUSTICE SOCIALE 12

FSJF--12

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.

Recommended : Sciences Humaines 11 or Explorations 11

LAW STUDIES 12

MLAW--12

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.

RECOMMENDED: Social Studies 11 or Explorations 11

PSYCHOLOGY 11

YPSYC1A

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

YPSYC2A

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.

RECOMMENDED: Psychology 11

SCIENCES HUMAINES 9

FSCHF09

Ce cours, Sciences humaines 9, est un produit de la refonte du nouveau curriculum. Les élèves analysent les thèmes suivants : révolution, impérialisme, nationalisme, migration et colonialisme durant la période 1750 à 1919. La géographie physique et les activités économiques canadiennes seront également étudiées. Les élèves développeront leurs connaissances à travers des enquêtes, l'analyse de documents et la communication orale et écrite. Les élèves interpréteront des preuves, évalueront la continuité et le changement, considéreront des perspectives différentes, comprendront les concepts de cause et de conséquence et porteront des jugements éthiques sur des événements historiques.

RECOMMENDED: Social Studies 8.

SCIENCES HUMAINES 10**FSCH--10**

Le cours de Sciences humaines 10 analyse les thèmes de l'autonomie canadienne, l'identité canadienne, divers conflits nationaux et internationaux, le colonialisme, les idéologies politiques, les institutions politiques, la discrimination, les perspectives autochtones et les interactions humaines avec l'environnement du début du 20e siècle jusqu'à aujourd'hui. Les élèves utiliseront diverses sources historiques et contemporaines afin d'approfondir leurs habiletés de pensée critique et historique.

RECOMMENDED Social Studies 9

SCIENCES HUMAINES 11 (see *Exploration 11*)**SOCIAL JUSTICE 12****MSJ--12**

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.

RECOMMENDED Social Studies 11/Explorations 11 with 60% is recommended.

SOCIAL STUDIES

SOCIAL STUDIES 9

MSS--09

This course has changed to reflect BC's New Curriculum, effective September 2016.

Themes of revolution, imperialism, nationalism, and colonialism will be studied within the time period of 1750-1919. Canada's physical geography will also be studied. Students will develop their inquiry, document analysis, and oral/written communication skills. Students will be interpreting evidence, assessing continuity and change, considering perspective, understanding cause and consequence, and making ethical judgments of various events within the given time period.

SOCIAL STUDIES 10

MSS--10

This course is a continuation of the skills learned in the new curriculum in SS 9. The focus is on Canada and the World since 1919. Students will tackle global and regional conflicts and its shaping of Canadian identity. In addition, the development of political institutions will be studied with the focus on economic, social, ideological, and geographic factors. Global issues such as: population growth, urbanization, environmental concerns, standards of living and human rights, will also be studied.

SOCIAL STUDIES 10 HONOURS (NWSS Pre-IB)

MSS--10H

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/Explorations 11 content.

Topics to be covered include:

- Canada-US relations
- BC Economic Geography
- 20th Century Global conflicts
- Government in Canada and
- Human Geography.



VISUAL AND PERFORMING ARTS

DANCE

DANCE: FOUNDATIONS 9/10

MDNC-09 / MDCF-10

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

MDNP-11 / MDNP-12

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.

(Some dance experience is an asset)

DRAMA

DRAMA 9

MDR--09

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.

Drama 8 is strongly recommended.

DRAMA 10

MDRM-10

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.

Drama 9 is strongly recommended.

THEATRE PRODUCTION 10/11/12

MTPR 11/12

Students will explore elements of theatre production design, technical theatre and theatre management, as well as gain knowledge and understanding of production roles including lighting design, sound design, set design and construction, costume design, production hierarchy and crew responsibilities and production management. The theatre production class may work on productions in conjunction with Theatre Company 11/12 and may include mentorship by professional theatre technicians through the Massey Theatre Tech Club. Note: This course will be a combined grade 10/11/12 course.

ACTING: Theater Performance 11/12: INTRO

MTPA-11/ MTPA-12

Drama 11/12 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. This is recommended for students with under 2 years experience in drama classes.

1

THEATRE COMPANY 11

MIDS-1A

This class will produce at least one larger work for stage to be performed for an audience. In this process, students will learn about the interconnected roles and responsibilities within a theatre company, stage etiquette and basic elements of theatre and acting. Strategies and techniques to support creative processes will be employed to investigate movement, sound, image and forms ability to convey meaning in drama. Past examples of productions include *Remembrance Day*, *Still Solid* and *N-Dubs Got Drama*. Students enrolled in theatre company 11 must have at least 2 years experience in drama. Those with less experience should enrol in Drama 11/12: Intro.

THEATRE COMPANY 12

MIDS-1A

This class will produce at least one larger work for stage to be performed for an audience. In this process, students will learn about the interconnected roles and responsibilities within a theatre company, stage etiquette and basic elements of theatre and acting. Strategies and techniques to support creative processes will be employed to investigate movement, sound, image and forms ability to convey meaning in drama. Past examples of productions include *Remembrance Day*, *Still Solid* and *N-Dubs Got Drama*. Students enrolled in theatre company 12 must have at least 2 years experience in drama. Those with less experience should enrol in Drama 11/12: Intro.

MUSICAL THEATRE 10: FOUNDATION**MMUTH10**

This course is offered every second year to students wishing to build a foundation in the three elements of Musical Theatre; acting, dance and singing. Students will learn a variety of audition, rehearsal and performance techniques specific to the musical theatre disciplines of drama, music and dance. Musical theatre styles, elements, principles, techniques, vocabulary and symbols will be investigated. Students will work in highly collaborative situations to investigate the role of performers, crew and audiences in a variety of contexts. This class does not produce a large-scale musical, but performances from the Musical Theatre tradition will be part of the course work. This class may be a grade 10/11/12 combined class. This course does not involve an audition.

MUSICAL THEATRE 11: FOUNDATION**MIDS-1FM**

This course is offered every second year to students wishing to build a foundation in the three elements of Musical Theatre; acting, dance and singing. Students will learn a variety of audition, rehearsal and performance techniques specific to the musical theatre disciplines of drama, music and dance. Musical theatre styles, elements, principles, techniques, vocabulary and symbols will be investigated. Students will work in highly collaborative situations to investigate the role of performers, crew and audiences in a variety of contexts. This class does not produce a large-scale musical, but performances from the Musical Theatre tradition will be part of the course work. This class may be a grade 10/11/12 combined class. This course does not involve an audition.

MUSICAL THEATRE 12: FOUNDATION**MIDS-2FM**

This course is offered every second year to students wishing to build a foundation in the three elements of Musical Theatre; acting, dance and singing. Students will learn a variety of audition, rehearsal and performance techniques specific to the musical theatre disciplines of drama, music and dance. Musical theatre styles, elements, principles, techniques, vocabulary and symbols will be investigated. Students will work in highly collaborative situations to investigate the role of performers, crew and audiences in a variety of contexts. This class does not produce a large-scale musical, but performances from the Musical Theatre tradition will be part of the course work. This class may be a grade 10/11/12 combined class. This course does not involve an audition.

VISUAL AND PERFORMING ARTS

MUSIC- CHOIR

CONCERT CHOIR 9

XC---09

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.

CONCERT CHOIR 10

MMUCC-10

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.

CONCERT CHOIR 11

MCMCC11

Find a way to express your unique individual self within the context of a strong, positive and engaging artistic community. Choral singing 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, and explore culture, identity and society through music. This class is offered on the timetable. Students participate in at least one performance. No previous music or singing experience is necessary.

CONCERT CHOIR 12

MCMCC12

Find a way to express your unique individual self within the context of a strong, positive and engaging artistic community. Choral singing 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, and explore culture, identity and society through music. This class is offered on the timetable. Students participate in at least one performance. No previous music or singing experience is necessary.

CHAMBER CHOIR 10, 11, 12 (Z BLOCK) 2B

MMUCH-10 / YVPA-1B / YVPA-2B

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. 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. Registered students will be contacted by the teacher about an audition time. This class participates in a tour in the spring. Past tours have included Cuba (2018), Banff (2017), Ottawa (2017), New Orleans (2016).

VOCAL JAZZ 9 & 10

XLDCC09 / MMVJ-10

This choir focuses pop singing styles and ensemble singing in a vocal jazz style. Students will learn microphone technique and experience singing with a band. 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).

VOCAL JAZZ 11 & 12 (Z BLOCK)

MCMJV11 / #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. Students will learn microphone technique 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). As well, this class develops leadership and community building skills. Students will also have some opportunity to gain solo skills and explore improvisation. This class participates in a tour in the spring. Past tours have included Cuba (2018), Banff (2017), Ottawa (2017), New Orleans (2016).

MUSIC- CONCERT BAND

CONCERT BAND 9

MMU--09

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. Previous tours include Whistler (2018), Banff (2017), Sun Peaks (2016).

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

CONCERT BAND 10

MMUCB10

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. Previous tours include Whistler (2018), Banff (2017), Sun Peaks (2016).

RECOMMENDED Band 9

FRENCH IMMERSION CONCERT BAND 9/10

MMCB10/MMU--09

This course is offered to French Immersion students in order for those who are interested in continuing to study instrumental music to be able to do so and still get their French Immersion certificate. 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. Previous tours include Whistler (2018), Banff (2017), Sun Peaks (2016).

RECOMMENDED Participation in the Middle School Band Program/Band 9 or permission of instructor.

SENIOR CONCERT BAND 11 & 12

MIMCB11 / MIMCB12

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. Past tours have included Cuba (2018), Banff (2017), Ottawa (2017), New Orleans (2016). This course is offered on the timetable and is scheduled all-year.

RECOMMENDED: Band 10 or permission of instructor

HONOUR WIND ENSEMBLE (Grades 9 to 12)

MMU—09W/MMUCB10W / MIDS-1D / MIDS-2D

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. Please contact Mr Steve Clements with questions at sclements@sd40.bc.ca

Open to Grade 9 students as well.



VISUAL AND PERFORMING ARTS

MUSIC - GUITAR

GUITAR Grade 9/ Level 1

XGUIT09

This course is offered to students in grades 9 through 12 interested in learning how to play the guitar that may not have previous experience on an instrument and want to learn the guitar. 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 in 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. Please contact Mr. Paterson at jpaterson@sd40.bc.ca if you have any questions about this class.

GUITAR Grade 10/ Level 2

MMUGT-10

Guitar Level Two is offered to students in grades 9 through 12 interested in beginning or continuing their guitar studies. Beginners are also welcome, but will be focusing on level one studies (see above). 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 how to improvise in group settings. Those with previous experience on the guitar will be able to learn advanced techniques of improvisation in small group settings. This course is offered on timetable during the semester.

GUITAR Grade 11/ Level 3

MIMG-11

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. Beginners are also welcome, but will be focusing on level one studies (see above). 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 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

GUITAR Grade 12/ Level 4

MIMG-12

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.

MUSIC - ORCHESTRAL STRINGS

ORCHESTRA ENSEMBLE 9/10 (Z BLOCK)

MMU—090/MMUOR-10

In Orchestra Ensemble 9/10 students will have the opportunity to rehearse and perform on their chosen instrument in a group setting. This full year course is offered mainly to string players (violin, viola, cello and upright bass), but is also open to brass and woodwind players that are willing to work in small ensembles. Advanced music students will be given more challenging repertoire to play in smaller groups. As well, students that would like to begin to learn how to play the violin, viola, cello, or upright bass, but have no formal training will be guided through the first steps of how to set up, hold and play their chosen instrument as well as how to read standard notation.

Students must own or rent an instrument for the duration of the class. Please note that only guitar students that have successfully completed one term of guitar with Mr. Paterson are able to participate in this class unless they have permission from the instructor prior to registration. This class is regularly scheduled 2 days a week after school. Please contact Mr. Paterson at jpaterson@sd40.bc.ca if you have any questions about this class.

STRING ENSEMBLE 11/12 (Z BLOCK)

MIMOS11 / MIMOS12

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. This class is regularly scheduled 2 days a week after school. Guitar students that have successfully completed Level One guitar with Mr. Paterson are also able to participate in this class.



VISUAL AND PERFORMING ARTS

MUSIC- JAZZ BAND

JAZZ BAND 9 (Z BLOCK)

XLDCB09

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 outside the regular timetable.

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

JAZZ BAND 10 (Z BLOCK)

MMUJB-10

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 outside the regular timetable.

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

JAZZ BAND 11 (Z BLOCK)

MIMJB11

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 outside the regular timetable.

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

JAZZ BAND 12 (Z BLOCK)

MIMJB12

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 outside the regular timetable.

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

MUSIC TECHNOLOGY and COMPOSITION

MUSIC COMPOSITION AND TECHNOLOGY 12

MMCT

MUSIC COMPOSITION AND TECHNOLOGY 11

MMCT-11

COMPOSITION 10

MMCT-11

MUSIC COMPOSITION AND TECHNOLOGY 9

MMU--09

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. 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 10 11 & 12

MVAPH10

YVPA-1A /

YVPA-2A

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

VISUAL ART 9/ 10

MVA--09/ MVASt-10

ROTATION 1: Art Foundations, Media arts, Sculpture (Modelling and Mixed Materials)

The BIG IDEA for this course is to explore the many aspects of art, media arts and sculpture as it enables your artistic expression and the creative process including: exploring personal identity, diverse perspectives, and the language of visual art. You will be able to try it all: comics, painting, clay, mixed materials, animation and graphics. Get your hands on cool art equipment and technology to learn the art of communicating with visual imagery.

Media Arts (could be photography, graphics and/or animation)

Sculpture (could include 3d printing)

Art Foundations (could include graphics)

VISUAL ART 9/ 10

ROTATION 2: Art Foundations, Photography, Sculpture (Props and Costumes)

MMV—09S/ MVASC-10

The BIG IDEA for this course is to explore the many aspects of art, photography and theatre design as it enables your artistic expression and the creative process including: exploring personal identity, diverse perspectives, and the language of visual art. You will be able to try it all: drawing techniques, painting, theatre props and costume, and photography. Get your hands on cool art equipment and technology to learn the art of communicating with visual imagery. It is recommended that students take *Visual Art 9/10 Rotation 1* before taking *Visual Art 9/10 Rotation 2* when possible.

ARTS STUDIO: FUNDAMENTALS OF DRAWING 11/12

MAF--11/12

Arts Studio: Fundamentals of Drawing offers time in your day to explore meaningful and unique ways of expressing yourself and discovering your artistic process. You will get your hands on all sorts of cool art supplies and technologies for artistic expression. You will learn to notice how art connects our personal experience to our communities, cultures and histories and you will learn how to talk about your own work and other students' work to build artistic skills and interpretation. *Typical projects may include: sketchbook exploration, drawing techniques, still life and figure drawing, perspective drawing, illustration, marker rendering, art history and popular drawing styles. Students are expected to purchase supplies for the class.*

ARTS STUDIO: DRAWING AND PAINTING 11/12

MSADP11/MSADP-12

In this course students explore meaningful and unique ways of expressing and discovering their artistic process. You will get your hands on all sorts of cool art supplies and technologies for artistic expression. You will learn to notice how art connects our personal experience to our communities, cultures and histories and you will learn how to talk about your own work and other students' work to build artistic skills and interpretation. *Typical projects may include: sketchbook exploration, drawing and painting techniques, colour theory, marker rendering, watercolour and acrylic painting, multimedia, abstraction, realism, architecture or landscape. Students are expected to purchase supplies for the class.*

SCULPTURE: PRINCIPLES OF SCULPTURE 11/12

MAF--11/12S

This course offers time in your day to play with shape and form in a way that communicates ideas, emotions and perspectives. You will begin to understand how sculpture connects artist to their communities, histories and society. As an artist your growth will depend on your ability to persevere, be resilient and reflect in meaningful ways. *Typical projects may include: sketchbook exploration, drafting, clay, found objects, paper mache, costume, ---*

GRAPHIC ARTS: PRINCIPLES OF DESIGN 11/12

MAF--11/12G

This course offers you time to discover design and the importance of balance and visual language. This unique art form uses specific technical processes to convey messages to attract and impact audiences. Graphic artists use the power of line, text, colour and image to contribute to culture and reveal insights into our human experience through perseverance, resilience, and artistic risk taking.

VISUAL AND PERFORMING ARTS

MEDIA ARTS

MEDIA ARTS 9/10 : ANIMATION 10

XMEA-09

MVAM-10

In this course you will actively learn basic animation skills using a variety of methods, including hand drawn work, cut paper and 3-D (using "built" objects). The images will be imported into computers where they'll be manipulated and turned into finished animations. Note: This course may be part of a combined class, therefore you must be motivated, work well independently and manage your time well.

MEDIA ARTS: ANIMATION 11

YCCT-1ACGA

In this course you will actively learn how to create high quality computer graphics and animations.. In addition you'll learn use motion graphics to create a graphic novel which communicates using a combination of video (live action), computer animation and other techniques to communicate your story in a visually appealing way. Frequently you'll watch videos and movies to learn from a wide variety of examples. Note: This course may be part of a combined class, therefore you must be motivated, work well independently and manage your time well.

MEDIA ARTS: ANIMATION 12

YCCT-2ACGA

Animation 12 builds on the skills, abilities and vocabulary that you acquired in Animation 11. You'll use this course to explore and develop your animation style through a variety of projects, that you'll plan, create and present.. Compared to Animation 11 you will need to be much more self-directed, better at allocating your time and much more creative. The expectation is that you'll seize this opportunity to challenge yourself to do well. Your goal for this course is to create a portfolio of work which you can use to gain entry into a post-secondary program, possibly leading to a career in animation. Frequently you'll watch videos and movies to learn from a wide variety of examples.

Note: This course may be part of a combined class, therefore you must be motivated, work well independently and manage your time well.

MEDIA ARTS: VIDEO 11

MVAMT11

In this course you will develop your skills, abilities and vocabulary as they apply to film, video and television production. Knowledge gained will be reinforced by actively applying it to your projects. This will enable you to create work that can communicate in a meaningful way and be visually appealing, so that others will want to watch it. Frequently you'll watch movies to see how the various topics and techniques that you are learning are used in film and television.

Note: This course may be part of a combined class, therefore you must be motivated, work well independently and manage your time well.

MEDIA ARTS: VIDEO 12

MVAMT12

Video 12 builds on the skills, abilities and vocabulary that you acquired in Video 11. You'll create a variety of projects, from "free choice" to one that meets the needs of a client. Compared to Video 11 you will need to be much more self-directed, better at allocating your time and much more creative. The expectation is that you'll seize this opportunity to challenge yourself to do well. Your goal for this course is to create a portfolio of work which you can use to gain entry into a post-secondary program, possibly leading to a career in in film or television.

Frequently you'll watch videos and movies to learn from a wide variety of examples.

Note: This course will be part of a combined class, therefore you must be motivated, work well independently and manage your time well.



VISUAL AND PERFORMING ARTS

MUSICAL THEATRE PROGRAM – Open to Grades 9 - 12.

The Musical Theatre Program will not be offered in 2018/2019.

It will be offered in the 2019/2020 school year. Look for audition information on the school website in January 2019.

Theatre Production 11	MTPR-11
Theatre Production/Management	MTPRM12
Theatre Production/Technical 12	MTPRT12
Musical Theatre 11 (BA)	YVPA-1C
Musical Theatre 12 (BA)	YVPA-2C

The Musical Theatre Program at NWSS has seen great success over the last 8 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 caliber 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 2017/2018 with rehearsals September to February, and performances in February 2018.

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*

RECOMMENDED: 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 and click on Musical Theatre Program.