

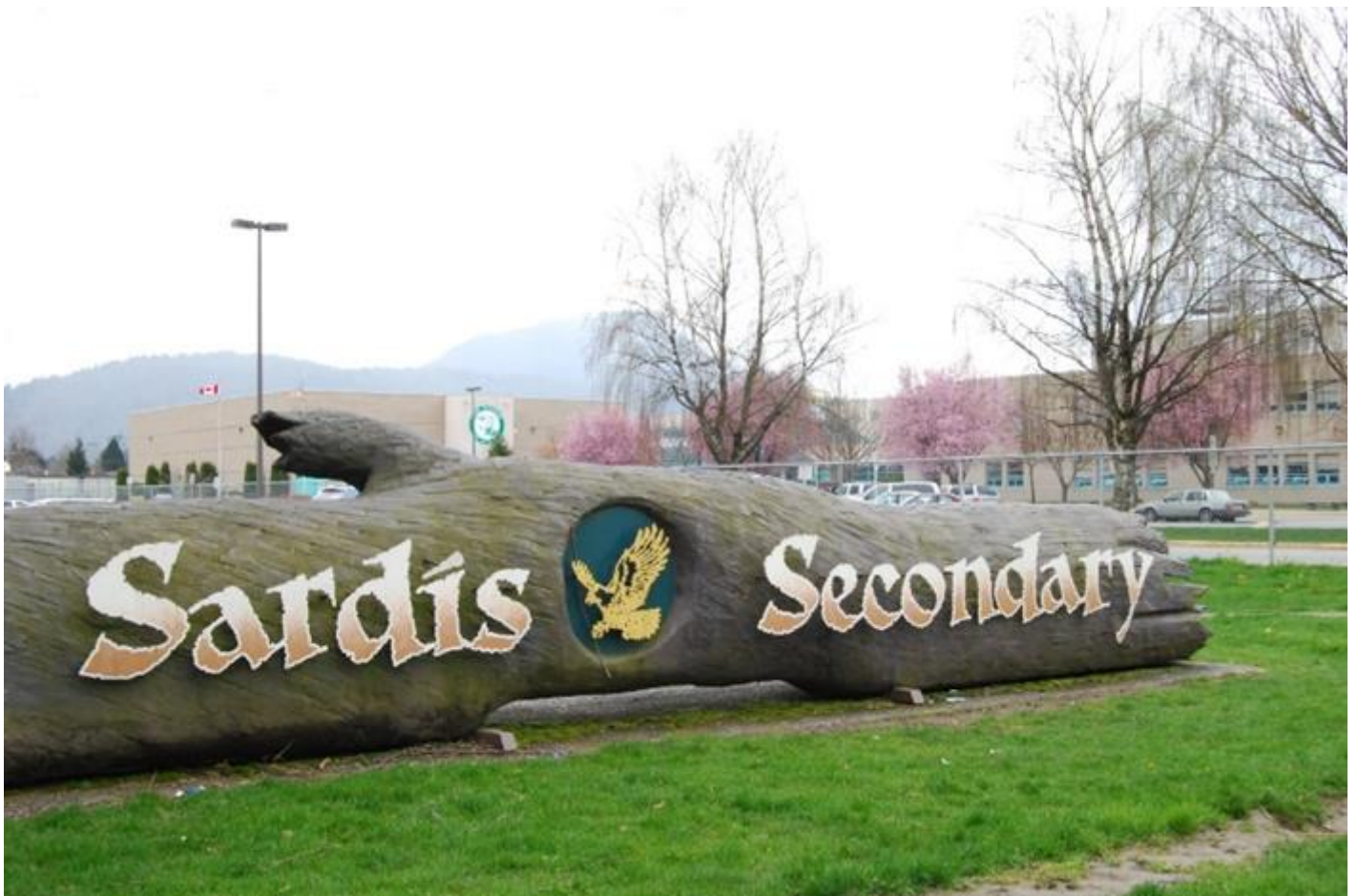


# SARDIS

SECONDARY SCHOOL

















**2022-2023**

COURSE CALENDAR



















We are privileged to be working and learning on the Stó:lō unceded traditional territory of the Pilalt, Sema:th and Ts'elxwéyeqw tribes.

## TABLE OF CONTENTS

Graduation Requirements.....	3
Course Planning .....	4
Specialty Programs.....	6
Courses Offered by Grade .....	8
 AR-Art.....	13
 BU-Business .....	17
 CS-Computer Science .....	18
 EN-English .....	21
 HE-Home Economics .....	24
 HS-Human Services.....	27
 LA-Modern Languages.....	30
 LF-French Immersion .....	35
 MA-Mathematics.....	37
 MU-Music.....	40
 PA-Performing Arts.....	43
 PHE-Physical and Health Education .....	48
 SC-Science .....	54
 SS-Social Studies.....	59
 ST-Student Services.....	61
 TE-Technology Education .....	62
District Careers Programs .....	71-74
- Work Experience, Explore Trades, Train in Trades, Work in Trades	

## Courses by department

<p> <b>ART</b> Pg. 13-16</p> <p>Visual Arts 9 Animation 1-2 Art Studio 1-2 Ceramics 1-2 Drawing &amp; Painting 1-2 Graphic Arts 1-2 Photography 1-2 Yearbook 11/12</p> <p> <b>BUSINESS</b> Pg. 17-18</p> <p>Accounting 11/12 Business Computer Applications 11 Business Info Management 12 Entrepreneurship 10 Keyboarding 11 Marketing 11/12</p> <p> <b>COMPUTERS</b> Pg. 18-21</p> <p>Computer Studies 10 Cisco 11 Cisco 12 A, B, C ICTM 11/12 ICTP 11/12 ICTS 11/12 AP Programming</p> <p> <b>ENGLISH</b> Pg. 21-23</p> <p>English 09 Creative Writing 10/11 Literary Studies 10/11 New Media 10/11 Composition 11 English Studies 12</p> <p> <b>HOME ECONOMICS</b> Pg. 24-27</p> <p>Culinary Arts 10-12 Culinary Arts Leadership 11/12 Family Studies 11/12 Food Studies 09-12 Textiles 09-12</p> <p> <b>HUMAN SERVICES</b> Pg. 27-29</p> <p>Intro to Counselling 11 Leadership 09-12 Mindfulness and Movement 11 Peer Tutoring 11 Psychology 11A/11B AP Psychology</p> <p> <b>LANGUAGES</b> Pg. 30-34</p> <p>French 9-12 German 9-12 Spanish 9-12 Intro German 11 Intro Spanish 11 Languages for Travel 11</p>	<p> <b>FRENCH IMMERSION</b> Pg. 35-36</p> <p>Civilizations Comparées 12 Francais Langue 9-12 Explorations en Sciences Humaines 11 Mathématiques 9 Sciences Humaines 9/10</p> <p> <b>MATHEMATICS</b> Pg. 37-40</p> <p>Foundations of Math 11/12 Foundations &amp; Pre-Calc 10 Foundations &amp; Pre-Calc 10 Honours Math 09 Pre-Calculus 11/12 Workplace Math 09-11 AP Calculus 12 AB University Prep Math</p> <p> <b>MUSIC</b> Pg. 40-43</p> <p>AP Music Theory Concert Band 9-12 Concert Choir 9-12 Drumline 9-12 Guitar 9-12 Jazz Band 9-12 Music Composition 09-12 Recording Arts 9-12 String Orchestra 9-12 Vocal Jazz 9-12</p> <p> <b>PERFORMING ARTS</b> Pg.43-48</p> <p>Broadcast Media 11-12 Choreography 11/12 Dance Foundations 09-12 Drama 09 Film &amp; TV 09-12 Theatre Production 09-12 Theatre Production: Direct/Write 11/12 Theatre &amp; Performance 10-12 Musical Theatre 09-12</p> <p> <b>PHYSICAL AND HEALTH ED</b> Pg. 48-53</p> <p>Health &amp; Fitness 11/12 Health Services 11 PHE 9+10 Alt Delivery PHE Active Living 11/12 PHE Basketball 9 PHE Basketball 10-12 PHE Hockey Skills/Theory 9-12 PHE Leadership 09-12 PHE Soccer 10-12 PHE Volleyball 10-12 Physical &amp; Health Ed 9 Physical &amp; Health Ed 10 PHE 10 Health &amp; Fitness Strength &amp; Con 11/12 Strength &amp; Con AM 11/12</p>	<p> <b>SCIENCE</b> Pg. 54-59</p> <p>Environmental Science 11/12 Biology 11 Biology 11 Honours (AP Biology Part 1) Biology 12 Anatomy &amp; Physiology AP Biology 12 (Part 2) Chemistry 11/12 Chemistry 11 Honours AP Chemistry 12 Earth Science 11 Physics 11/12 Science 9/10 Science 10 Honours Specialized Science 12 (Science and Technology)</p> <p> <b>SOCIAL STUDIES</b> Pg.59-61</p> <p>20<sup>th</sup> Century World History BC First Peoples 12 Comparative Cultures 12 Human Geography 12 Law 12 Philosophy 12 Political Studies 12 Social Studies 09/10 Social Justice 12</p> <p> <b>STUDENT SERVICES</b> Pg 61-62</p> <p>Inclusive Education Indigenous Student Support English Language LA LAR</p> <p> <b>TECHNOLOGY ED.</b> Pg.62-70</p> <p>Power Technology 9 Automotive 10 Automotive Tech 11/12 Auto Tech 12: Body Repair Auto Tech 12: Drivetrain Train in Automotive Introductory Drafting &amp; Design Architecture Level 1-2 Mechanical Engineering Level 1-2 Industrial Design, Engineering &amp; Coding Intro Metal Metal 11-12 Machining and Welding 12 Train in Welding Introductory Woodwork Woodwork 11 Woodwork 12A+12B Home Renovation &amp; Repair 11 Work Experience Youth Train in Trades Youth Work in Trades</p>
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# *“We Invite Your Success”*

## **GRADUATION PROGRAM**

Students are required to complete a minimum of 80 credits in grades 10-12 to fulfill the graduation requirements.

### 52 Required Credits:

- a Language Arts 10 (two 2 credit courses)
- a Language Arts 11 (4 credits)
- English Studies 12 (4 credits)
- Social Studies 10 (4 credits)
- a Social Studies 11 or 12 (4 credits)
- Science 10 (4 credits)
- a Science 11 or 12 (4 credits)
- a Mathematics 10 (4 credits)
- a Mathematics 11 or 12 (4 credits)
- Physical and Health Education 10 (4 credits)
- a Fine Arts or Applied Skills course (4 credits)
- Career-Life Education (4 credits)
- Career-Life Connections (4 credits)



### 28 Required Elective Credits:

Students must complete a minimum of 28 elective credits.  
12 of these elective credits must be at the grade 12 level.

### 3 Provincial Assessments:

Prior to Graduation, all students must write a Numeracy 10 assessment; a Literacy 10 assessment; and a Literacy 12 assessment.

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## **PROVINCIAL ASSESSMENTS**

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Each student has up to three opportunities to write each assessment. The highest mark achieved will be recorded on the student's final transcript in grade 12.

# COURSE PLANNING

This Course Calendar outlines all courses offered at SSS. Students are to study this booklet (on-line or paper) and discuss their potential course selections with their teachers, counsellors and parents. **All students must complete a course selection form with final selections. Students are urged to check Post-Secondary Entrance requirements when selecting courses.**

This selection phase is of utmost importance as the tallies gathered from the students' choices determine the classes offered for the next year. Every effort is made to enable students to get their chosen courses. However, due to timetable constraints, sometimes alternate course selections are used.

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## COUNSELLING SERVICES

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Counsellors are available on an appointment basis. Students are assigned to counsellors alphabetically by last name. Please email your counsellor to set up an appointment. Students who are planning on enrolling at a post-secondary institution must check their entrance requirements. Universities have different requirements, so please be careful to check the institution you want to attend. If you are unsure of requirements to fulfill your plans, please talk to a counsellor or career advisor.

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## CAREER CENTRE

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The Career Centre is located in room D103 and is a valuable source of career and post-secondary information for all students. It is a centre where students, parents, and teachers can access post-secondary, scholarship, work experience, and other sources of career-related planning information. Our Career Advisor is available to assist with career searches and address queries.

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## PROVINCIAL SCHOLARSHIPS

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- Basic eligibility: citizen or permanent resident of Canada, resident of BC & fulfill all grad requirements by August 31 of grad year.

### **BC EXCELLENCE SCHOLARSHIP**

- \$5000 scholarship awarded to 55 students, recognizing well-rounded graduates. Each school in BC nominates one student.

### **BC ACHIEVEMENT SCHOLARSHIP**

- \$1250 scholarship awarded by the Ministry to 8000 graduating students recognizing broad achievement in grad requirements
- Recipients determined on achievement in grades 10,11 & 12 courses within the grad program (including electives)
- A minimum of 73% final in Language Arts 12 is required.

### **DISTRICT/AUTHORITY SCHOLARSHIP**

- \$1250 scholarship awarded by the Ministry to 5500 graduating students recognizing students for excellence in their chosen area of interest or strength.
- Students apply through an application form process.

### **PATHWAY TO TEACHER EDUCATION SCHOLARSHIP**

- **New Award – \$5000** given to 20 outstanding BC grads who have demonstrated a commitment & aptitude for a career path in K-12 teaching and will attend an approved teacher education program at one of BC's nine Faculties of Education.
- Students apply through an application form process.



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## CAREER LIFE CONNECTIONS

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Career Life Connections is a required course under the Graduation Program. Students do not need to select this course as it will automatically be added as an additional course for all graduating students. The course is designed to assist students in exploring their future career possibilities. Topics covered include career planning, networking career relationships, creating balance between career and personal well-being, and fostering a desire for life-long learning. As part of this course, students will be required to demonstrate their personal learning in an exit interview with a staff member.

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## FLEX 10/11/12

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Flex is a 2-credit course that occurs on Thursdays throughout the school year. Each week students select a session from those offered by the teachers. The sessions are designed to enhance, enrich, and extend student learning opportunities on a variety of topics. Students do not select this block with their other course selections. In September Flex will be added to each student's timetable according to the grade they are in.

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## EXTERNAL COURSE CREDITS

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Students are able to earn credit for accomplishments outside the regular classroom setting. Examples: Young Drivers Certificate, Bronze Cross, Royal Conservatory of Music, BC Rep Sports Teams. For a full list of creditable activities and the specific requirements necessary, please refer to the Ministry website at:

**[http://www.bced.gov.bc.ca/graduation/ext\\_credentials/ext\\_cred.php](http://www.bced.gov.bc.ca/graduation/ext_credentials/ext_cred.php)**

**RESPECT**  
**INTEGRITY**  
**EMPATHY**  
**ACCOUNTABILITY**  
**PERSEVERANCE**  
**ACHIEVEMENT**  
*PASSION*

# SPECIALTY PROGRAMS

## ADVANCED PLACEMENT COURSES

AP courses are usually taken in Grade 12 and are taken either concurrently with the grade 12 level Ministry course, in a 'combo' format, or following completion of the grade 12 level Ministry course. Students have the option to write the AP examination in May at a cost of \$125. The courses are 1st year university level in content. **Reasons to take AP:**

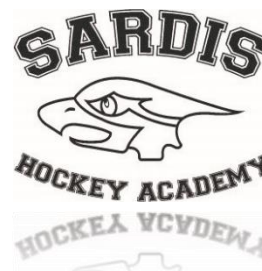
- They are challenging and provide enrichment to the regular program.
- Since they conform to international standards, some post-secondary institutions prefer their applicants to take AP courses.
- Because they are 1st year university level courses, students completing them find the transition to first year post-secondary workload easier. **Note:** since AP courses require considerable extra effort, they should only be taken by those who have a keen interest in, and ability for, the subject.

For more information, see your school counsellor or current teachers. AP courses are offered for **Biology, Calculus AB, Chemistry, Computer Science (Java), Music Theory and Psychology.**

## HOCKEY ACADEMY

Hockey skills development program is for students who have a passion for hockey. This is a linear program; students will participate in three on-ice and two off-ice development sessions per week from September – June.

- Skill development and hockey specific training (on and off ice) include: individual (stick, possession, passing, power skating, shooting, checking) and team (play, transition, special teams) hockey offensive and defensive skills; agility; balance; cardio; muscular strength and endurance; nutrition; and leadership.
- Academic support and learning style assessment components of the program.
- Viable post-secondary planning: including NCAA Division I & II, CIS, Canadian College.
- Application for download at **[www.sardissecondary.ca](http://www.sardissecondary.ca)**.
- PHE 10 and/or CLE 10 course requirements may be met within the program.
- Students will demonstrate athletic, academic and personal growth.



## TRAIN IN TRADES AUTOMOTIVE PROGRAM

### YOUTH TRAIN IN TRADES SSS/UFV DUAL CREDIT PROGRAM

**Prerequisite:** Automotive Technology 11

- This course is run in conjunction with the UFV Trades and Tech campus.
- **Students must sign up for two blocks (12A & 12B) in first semester of grade 12.**
- **Graduation requirements should be fulfilled before semester 2. Meet with your counsellor to assist with course planning.**
- Students will be required to complete level 12A and 12B (AND 11) here at Sardis Secondary in the first semester, **and level C-F at UFV in the second semester of their Grade 12 year.**
- Attendance and punctuality are required; only serious students should apply. Once completed, this training provides excellent job opportunities.
- Students receive a certificate of completion from UFV and, if they pass the ITA exam at the end of the course, they will receive a level 1 apprenticeship credit from the ITA.
- **Speak with Mr. Goodman to register**

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## TRAIN IN TRADES WELDING PROGRAM

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This is a joint venture with the University of the Fraser Valley (UFV), the Industry Training Authority (ITA), and Sardis Secondary School. This program enables students to complete the first half of the BC Foundations Welding Program Levels 1 and 2 at SSS (4 courses/16 credits). After the introductory courses, Intro Metal 10 or Metal 11, students will need four additional Train in Welding courses to complete the Sardis portion of the Foundations course. In the 2nd semester of their grade 12 year, these students attend UFV for the rest of the Foundation Welding Program. Successful completion of this program provides your student with 32 credits towards their high school graduation requirements. There are a limited number of spaces at UFV, so in order to be eligible for a spot in the UFV program students must have excellent attendance and work habits in all of their courses. \*Students must complete an application and interview with the instructor.



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## WORK EXPERIENCE

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Work experience allows students to connect what they learn in the classroom with the skills and knowledge needed in the workplace and society.

Students will use Work Experience to explore careers, to earn credits toward graduation, and to apply for community bursaries and scholarships. Work Experience also helps young people build a strong network of community contacts and references.


See page 68 of this course calendar for more information.





Grade 9 Courses		
Concert Band 09	Introductory Woodwork	Power Technology 09
Concert Choir 09	Jazz Band 09	Recording Arts 09
Dance Foundations 09	Leadership 09	Science 09
Drama 09	Mathematics 09	Social Studies 09
Drumline 09	Musical Theatre 09 –By Audition	Spanish Introductory 09
English 09	PE Hockey Skills/ PE Hockey Theory 09	
Film & Television 09	PHE Leadership 09	String Orchestra 09
Food Studies 09	PHE 09	Textiles 09
French 09	PHE Basketball 9	Theatre Production 09
German 09		Visual Arts 09
Guitar 09		Vocal Jazz 09
Introductory Drafting+ Design		Workplace Mathematics 09
Introductory Metal		
 Grade 9 French Immersion Courses		
Francais Langue 09	Mathématiques 09	Sciences Humaines 09

\* Grade 9 students are able to take additional grade 10 +11 courses if the prerequisites are met\*

Grade 10 Courses		
Animation 1	Foundations & Pre-Calculus 10 Honours	PHE Leadership 10
Art Studio 1	French 10	PHE Soccer 10
Architecture 1	German 10	Photography 1
Automotive 10	Graphic Arts 1	Psychology 11 A
3D Ceramics 1	Guitar 10	Recording Arts 10
Computer Studies 10	Introductory Drafting & Design	Science 10
Concert Band 10	Introductory Metal	Science 10 Honours
Concert Choir 10	Introductory Woodwork	Social Studies 10
Culinary Arts 10	Home Renovation & Repair	Spanish 10
Dance Foundations 10	Jazz Band 10	String Orchestra 10
2D Drawing & Painting 1	Leadership 10	Textiles 10
Drumline 10	Music Composition 10	Theatre Company 10
English 10 Creative Writing and Composition	Musical Theatre 10 –by audition	Theatre & Performance 10
English 10 Literature and Composition	PHE Basketball 10	Theatre Production 10
English 10 New Media and Composition	PHE Volleyball 10	Workplace Math 10
Entrepreneurship+ Marketing 10	PHE Hockey Skills 10 / PHE Hockey Theory 10	
Film & Television 10	PHE 10 Alternate Delivery	
Food Studies 10	PHE 10	
Foundations & Pre-Calculus 10	PHE 10 Health & Fitness	
 Grade 10 French Immersion Courses		
Francais Langue 10	Sciences Humaines 10	

\* Grade 10 students are able to take additional grade 11-12 courses if the prerequisites are met\*

## Grade 11 Courses

Accounting 11	Food Studies 11	PHE Volleyball 11
Animation 1-2	Foundations of Math 11	PHE Hockey Skills 11 / PHE Hockey Theory 11
Architecture Level 1-2	French 11	PHE Leadership 11
Art Studio 1-2	German 11	PHE Soccer 11
Automotive Technology 11	Graphic Arts 1-2	Photography 1-2
BC First Peoples 12	Guitar 11	Physics 11
Biology 11-Life Sciences	Health + Fitness 11	Pre-Calculus 11
Biology 11 Honours-Life Sciences	Health Services 11	Peer Tutoring 11
Applied Biology 11 Double Block	Home Renovation & Repair	Psychology 11B
Broadcast Media Production 11	ICTM: Digital Media Development 11 – Video Game Design	Recording Arts 11
Business Computer Applications 11	ICTP: Computer Programming 11	Spanish 11
3D Ceramics 1-2	ICTS: Computer Information Systems 11	Strength & Conditioning 11
Chemistry 11	Industrial Design, Engineering & Coding	Strength & Conditioning 11 (AM)
Chemistry 11 Honours	Introduction to Counselling 11	String Orchestra 11
Choreography 11	Introductory German 11	Textiles 11
Cisco 11	Introductory Spanish 11	Theatre & Performance 11
Composition 11	Jazz Band 11	Theatre Production 11
Concert Band 11	Keyboarding 11	Vocal Jazz 11
Concert Choir 11	Languages for Travel 11	Woodwork 11
Culinary Arts 11/Culinary Arts Leadership 11	Law 12	Workplace Math 11
Dance Foundations 11	Leadership 11	Yearbook 11
2D Drawing & Painting 1-2	Marketing and E- Commerce 11	
Drumline 11	Mechanical Engineering Level 1	
Earth Science 11	Metal 11	
English 11 Composition		
English 11 Creative Writing	Mindfulness and Movement 11	
English 11 Literature	Music Composition 11	
English 11 New Media	Musical Theatre 11- By Audition	
Family Studies 11	PHE Active Living 11	
Film & Television 11	PHE Basketball 11	



## Grade 11 French Immersion Courses

Francais Langue 11	Explorations en Sciences Humaines et Sociales 11	
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\* Grade 11 students are able to take additional grade 12 courses if the prerequisites are met\*



## Grade 12 Courses

Accounting 12	Foundations of Math 12	Photography 1-2
Animation 1-2	French 12	Physics 12
Architecture 1-2	German 12	Political Studies 12
Art Studio 1-2	Graphic Arts 1-2	Pre-Calculus 12
Automotive Technology 12	Guitar 12	AP Psychology 12
Auto Tech 12: Body Repair	Health and Fitness 12	Recording Arts 12
Auto Tech 12: Drivetrain		Residential Construction 12
BC First Peoples 12		Science and Technology 12
Biology 12 –Life Sciences	20 <sup>th</sup> Century World History 12	Social Justice 12
AP Biology 12- Life Sciences	Home Renovation & Repair 11	Spanish 12
Broadcast Media 12	Human Geography 12	Strength & Conditioning 12
Business Computer Applications 12	ICTM: Digital Media Development 12 – Video Game Design	Strength & Conditioning 12 (AM)
Business Information Management 12	ICTP: Computer Programming 12	String Orchestra 12
AP Calculus 12 AB	ICTS: Computer Information Systems 12	Textiles 12
3D Ceramics 1-2	Industrial Design, Engineering & Coding	Theatre Company 12
Chemistry 12	Introduction to Counselling 11	Theatre & Performance 12
AP Chemistry 12	Jazz Band 12	Theatre Production 12
Choreography 12	Law 12	Theatre Production: Direct & Write 12
Cisco 12 A, B, C	Leadership 12	Train in Automotive
Comparative Cultures 12	Machining & Welding 12	Train in Construction-Carpentry
AP Computer Programming	Marketing and E-Commerce 12	Train in Welding
Concert Band 12	Mechanical Engineering level 1+2	University Prep Math 12
Concert Choir 12	Metal 12	Vocal Jazz 12
Culinary Arts 12/ Culinary Arts Leadership 12	Music Composition 12	Woodwork 12
Dance Foundations 12	AP Music Theory 12	Woodwork 12: Furniture & Cabinetry
2D Drawing and Painting 1-2	Musical Theatre 12-By Audition	Yearbook 11 (12 w/teacher approval)
Drumline 12	PHE Active Living 12	
English Studies 12	PHE Basketball 12	
Environmental Science 12	PHE Volleyball 12	
Environmental Science 12 – Double Block	PHE Hockey Skills 12 / PHE Hockey Theory 12	
Family Studies 12	PHE Leadership 12	
Film & Television 12	PHE Soccer 12	
Food Studies 12	Philosophy 12	

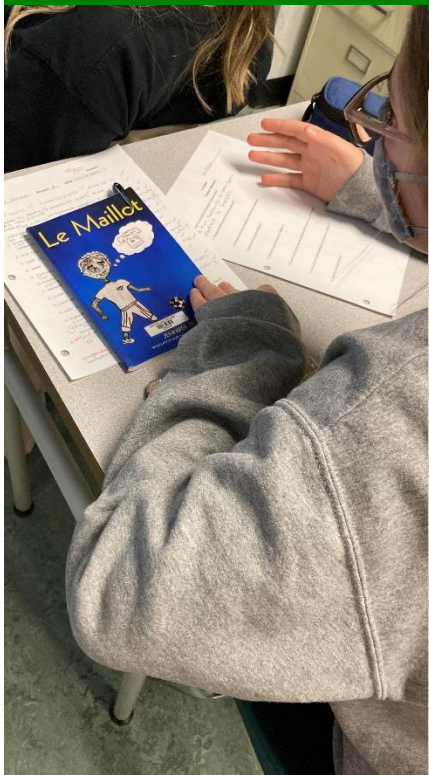


## Grade 12 French Immersion Courses

Francais Langue 12	Civilizations Comparées 12	
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## *COURSE DESCRIPTIONS*





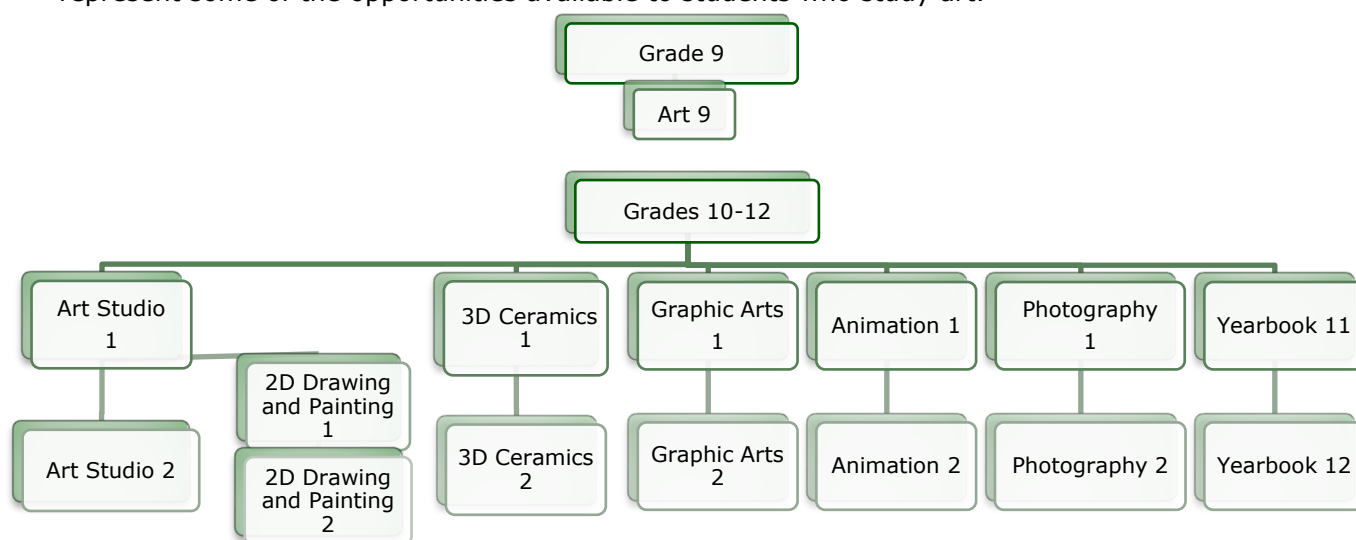


# ART (AR)

## GENERAL INFORMATION ABOUT THE VISUAL ARTS PROGRAM

The aim of the Visual Arts Program is to allow learners to experience the power, ideas, and emotions expressed in visual artwork by enabling them to perceive, react, create, and communicate visually. The Visual Arts Program offers a series of courses in both 2-dimensional and 3-dimensional media. Students may choose a specialization or a combination of courses to meet provincial credit requirements and electives. Within a specialization, courses are sequential & require the prerequisite noted. In all courses, evaluation for project-based assignments will reflect the level of effectiveness and competencies of students.

The Visual Arts Program will enrich students' understanding and appreciation of Art. For committed students, the art courses will prepare students for post-secondary studies. Careers in fine art, graphic design, animation, industrial design, interior design, or in the movie or game industries represent some of the opportunities available to students who study art.



### AR-VISUAL ARTS 09

**Prerequisite:** Open to students in Grade 9.

- Designed to allow students to explore a variety of art methods, this course provides a good foundation for students planning to take further visual arts courses.
- Students will explore their visual creativity through drawing, painting, printmaking, graphics, photography, sculpture, and ceramics



### AR-ANIMATION 1

**Prerequisite:** Open to students in Grades 10-12

- Offered to meet the growing demand for animators from industries such as movie and television, computer, and video game design.
- This course content will include an introduction to storyboarding, background design, and 3D modeling.
- Two industry-standard software will be used for the completion of this course. The 2D unit will be completed using Adobe Animate. The 3D unit will be done using AutoDesk Maya

## AR-ANIMATION 2

**Prerequisite:** Animation Level 1

- Adobe Animate and AutoDesk Maya programs will be used for more in-depth projects.
- Students will be focusing on 3D character design including modeling and rigging, as well as animating it.
- Independent work is encouraged at a more advanced level.
- This is a good choice for student's interested pursuing animation at a post-secondary level.

## AR-ART STUDIO 1

**Prerequisite:** Open to students in Grades 10-12

- Explore a variety of art methods while learning about the elements and principles of art and design.
- Use a variety of materials, strategies, techniques, and technologies that support creative processes.
- Explore your creativity through drawing, painting, printmaking, sculpture, photography, and ceramics.

## AR-ART STUDIO 2

**Prerequisite:** Art Studio Level 1

- Explore a variety of art methods while learning about the elements and principles of art and design.
- Continue to explore a variety of art methods such as: drawing, painting, printmaking, sculpture, photography, and ceramics.
- Independent work is encouraged at a more advanced level.

## AR-3D-CERAMICS 1

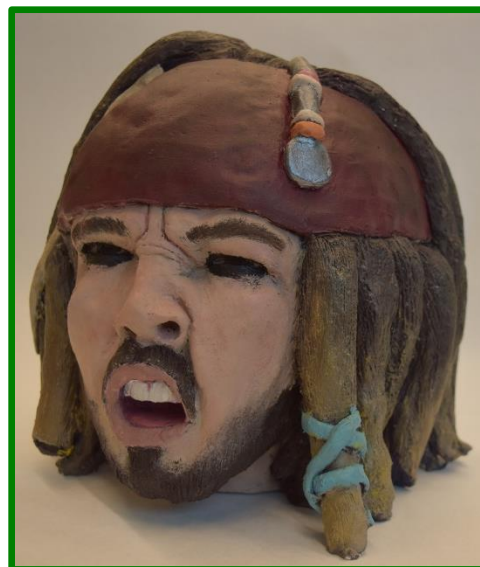
**Prerequisite:** Open to students in Grades 10-12

- Designed to allow students to specialize in three-dimensional art forms.
- This course focuses on 3D ceramic sculpture, pottery – wheel throwing, hand building, sculptural forms using a variety of clay bodies, glazes, and surface techniques.

## AR-3D-CERAMICS 2

**Prerequisite:** Ceramics Level 1

- Designed to allow students to continue to specialize in three-dimensional art forms.
- This course builds upon and expands further on 3D ceramic sculpture, pottery – wheel throwing, hand building, sculptural forms using a variety of clay bodies, glazes, and surface techniques.
- Independent work is encouraged at a more advanced level.



## AR-2D-DRAWING & PAINTING 1

**Prerequisites:** Art Studio Level 1

- Create personally meaningful images through drawing and painting.
- Explore a variety of sources, techniques, and strategies for image development and design.
- Apply visual elements and principles of design to your artwork.
- Explore graphite, charcoal, pastel, pencil crayon, pen and ink, acrylic paint, and water colour techniques.
- Evaluation: in class assignments, projects, sketchbook, and written self-evaluation.



## AR-2D DRAWING & PAINTING 2

**Prerequisites:** Drawing & Painting Level 1

- Students will build on media techniques from Drawing & Painting Level 1 using graphite, charcoal, pastel, pencil crayon, pen and ink, acrylic paint, and water colour.
- Students will be encouraged to use critical thinking and problem-solving techniques in their artwork.
- Evaluation: in class assignments, projects, sketchbook, and written self-evaluation.

## AR-GRAPHIC ARTS 1

**Prerequisite:** Open to students in Grades 10-12. Some computer and art/sketching skills are helpful, but not necessary.

- Explore and master tools used in vector drawing (Adobe Illustrator) and photo editing (Adobe Photoshop) as well as become familiar with general design concepts.
- Produce commercial works for various school and community publications.
- Evaluation will be based on assignments and projects.

## AR-GRAPHIC ARTS 2

**Prerequisite:** Graphic Arts Level 1

- Use the tools mastered in Graphic Arts 1 (vector drawing and photo editing) as well as general design concepts to work on projects that are more technically and conceptually advanced.
- Produce commercial works for various school and community publications.
- Independent work is encouraged at a more advanced level.
- Evaluation will be project based and will require the student to keep a portfolio of the work they have done.

## AR-PHOTOGRAPHY 1

**Prerequisite:** Open to students in Grades 10-12.

- Explore a variety of photography techniques that include: digital photography, black and white darkroom photography, historical process photography (cyanotypes and gum prints), and screen printing.
- Become familiar with the basics of Photoshop.
- Develop personally meaningful images while mastering the processes of each photo/printing technique.
- Outcomes: art/photo prints, cards and posters and the opportunity to print designs on t-shirts or other textile items.



## AR-PHOTOGRAPHY 2

**Prerequisite:** Photography Level 1

- Continue to explore a variety of photography techniques that include: digital photography, black and white darkroom photography, historical process photography (cyanotypes and gum prints), and screen printing.
- Student will work on projects that are more advanced conceptually, as well as technically.

## AR-YEARBOOK 11

**Prerequisite:** C+ average or better overall and teacher approval

- For students who have an interest in photography resulting in professional production of the school's yearbook.
- Includes a variety of experiences in writing, digital photography, and desktop publishing.
- The production of the yearbook encourages critical thinking and problem solving and requires students to be willing to meet strict deadlines. This course is useful for students interested in careers in business or art as creativity and technology are applicable to both fields. Current software programs used are Adobe InDesign and Adobe Photoshop.
- A great practical application course for students who want experience working with professional photography and publishing technology.
- Evaluation: in class assignments that apply to design theory and technology; assigned pages, photography, and page caption composition

## AR-YEARBOOK 12\*

**Prerequisites:** Yearbook 11 - \*Teacher approval required.

- Includes a variety of experiences in writing, digital photography, and desktop publishing.
- The production of the yearbook encourages critical thinking and problem solving and requires students to be willing to meet strict deadlines. This course is useful for students interested in careers in business or art as creativity and technology are applicable to both fields. Current software programs used are Adobe InDesign and Adobe Photoshop.
- A great practical application course for students who want experience working with professional photography and publishing technology.
- Evaluation: in class assignments that apply to design theory and technology; assigned pages, photography, and page caption composition.
- For students who have an interest in photography resulting in professional production of the school's yearbook.







# ***BUSINESS (BU)***

## **BU-ACCOUNTING 11**

**Prerequisite:** None. Open to Grade 10 – 12 students.

- Introductory course, covering debit and credit theory, GST and PST, the accounting cycle, journal entries, ledgers.
- Analyzing and interpreting financial statements and introduction to Simply Accounting Software.
- Evaluation on tests, quizzes, and daily work.

## **BU-ACCOUNTING 12**

**Prerequisite:** Accounting 11

- Enables students to use Simply Accounting to input, analyze, and report the finances of business.
- Usage of General Ledger, Accounts Payable, Accounts Receivable, Payroll, Inventory, and Job Cost Modules.
- Evaluation on projects, daily work, and tests.

## **BU-BUSINESS COMPUTER APPLICATIONS 11**

**Prerequisite:** None. Open to Grade 9-12 students.

- Learn at your own pace, self-directed with multi-media lessons.
- Learn Microsoft Word (intro): letters, mail merges, labels, tables, reports, resumes.
- Learn Microsoft PowerPoint presentations (advanced): master pages, charts, kiosks, create professional presentations.
- Learn Microsoft Excel (intro): spreadsheets used in business, banking, finance, real estate, etc.

## **BU-BUSINESS COMPUTER APPLICATIONS 12**

**Prerequisite:** None. Open to Grade 10-12 students.

- Optional: Get your "Microsoft Office Specialist Certification" (Sardis is an official testing centre offering certification. This certification is industry standard and very expensive to receive if taken through colleges or private delivery methods)
- Like a grade 11 course (however you get grade 12 credit)
- Learn at your own pace, self directed with multi-media lessons.
- Learn Microsoft Excel (Intermediate): employee scheduling, tracking expenses, payroll and deductions.
- Learn Microsoft Word (advanced): tables, logos, brochures, directory, columns.
- Learn Microsoft Access (intro): create tables and forms used to store records in a variety of businesses.

## **BU-BUSINESS INFORMATION MANAGEMENT 12**

**Prerequisite:** None. Open to Grade 10-12 students.

- Optional: Get your "Microsoft Office Specialist Certification" (Sardis is an official testing centre offering certification. This certification is industry standard and very expensive to receive if taken through colleges or private delivery methods)
- Like a grade 11 course (however you get grade 12 credit)
- Learn Microsoft Access (intermediate to advanced): focus on database development using, easy to create interfaces constructed for schools, hospitals, restaurants, retail stores, etc, - valuable skills applicable to any business.
- Learn Microsoft Excel (Intermediate to advanced): mortgages, loans, investments, creating an inventory and custom programmable.



## BU-ENTREPRENEURSHIP AND MARKETING 10

**Prerequisite:** None. Open to Grade 9 and 10 students.

- Provides students with an understanding of business and entrepreneurship in Canada.
- Going into business for yourself, researching and planning your business, market strategies, and finance.
- Creating a business plan and participating in school activities to build real life experience in business.

## BU-KEYBOARDING 11

**Prerequisite:** None. Open to grade 10 – 12 students.

- To develop keyboarding proficiency as a foundation for career development and personal life skill.
- Research has shown that keyboarding increases performance in reading, spelling, grammar and creative writing.
- Personal and business applications, e.g., letters, memos, reports.
- Word processing (Microsoft Word), presentation skills (PowerPoint), and Internet searches.
- Students will be evaluated on assignments, daily work and tests.

## BU-MARKETING AND ECOMMERCE 11

**Prerequisite:** None

- Learn how companies design, produce, price and promote a product.
- Learn how to sell products by learning the psychology involved in business.
- Students will participate in individual assignments and large group projects throughout the year.

## BU-MARKETING AND ECOMMERCE 12

**Prerequisite:** None

- Learn how companies design, produce, price and promote a product.
- Learn how to sell products by learning the psychology involved in business.
- Students will participate in individual assignments and large group projects throughout the year.



# COMPUTER SCIENCE (CS)

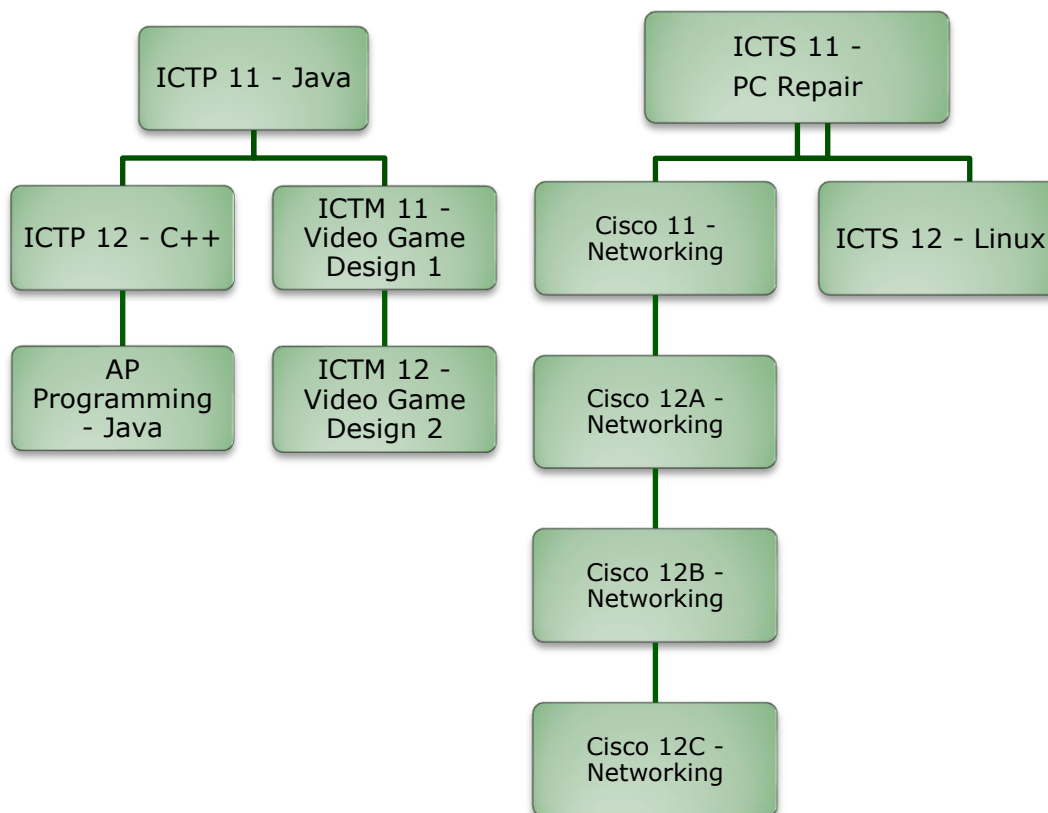
The majority of these courses are Industrial Certification courses certified by CompTIA, Cisco Systems or Microsoft. See individual courses for the list of prerequisites. Skills Canada Training – Students completing ICTS 11, ICTS 12, Microsoft 12C, CISCO 11/12A/12B will have the necessary training and skills to compete at the Skills Canada Competitions.

Talk to the instructor for further information.

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The following diagram shows the pathways and prerequisites for each course.

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All computer courses offered can be taken in a classroom situation or on-line. Transfer credits for post-secondary available for many of these courses. See Mr. Murtha for more information.

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### CS-COMPUTER STUDIES 10

Introduction to Computer Technology

**Prerequisite:** A "C+" average in Math 8 and Science 8.

- An introduction into the computer technology courses offered at SSS.
- Students will gain introductory skills in: Programming, Networking, Linux, computer hardware/Software, Internet of Things, Cybersecurity, Video Game Design, and Career Preparation in Technology.

### CS-CISCO 11 - NETWORKING

(CISCO NETWORKING CERTIFICATION – PART 1)

**Prerequisite:** A 'B' average in ICTS 11. It is also highly recommended that students sign-up for Career Preparation Computer Science Work Experience Program.

- A hands-on course in networking fundamentals.
- Focus on networking devices, IP addressing, Ethernet cabling, and an introduction in routing theory.
- Students will learn to make patch cables, and do installation of structured cabling
- Emphasis is on the Cisco CCNA Certification Exams.

## CS-CISCO 12A - NETWORKING

(CISCO NETWORKING CERTIFICATION – PART 2)

**Prerequisite:** A 'B' average in CISCO 11. It is also highly recommended that students sign up for Career Preparation Computer Science Work Experience Program.

- A hands-on course in networking routing concepts.
- Focus on routing theory, router components, routing protocols, and an introduction to switches.
- Learn to set up, wire and configure LAN/WAN based routers. Emphasis is on the Cisco CCNA Certification Exam.

## CS-CISCO 12B - NETWORKING

(CISCO NETWORKING CERTIFICATION – PART 3)

**Prerequisite:** A 'B' average in CISCO 12A. It is also highly recommended that students sign up for Career Preparation Computer Science Work Experience Program.

- A hands-on course in networking switching and WAN concepts.
- Focus on LAN switches, bridges and WAN services.
- Learn to set up, wire and configure switches. There will be an emphasis on the Cisco CCNA Certification Exams.

## CS-CISCO 12C - NETWORKING

(CISCO NETWORKING CERTIFICATION – PART 4)

**Prerequisite:** A 'B' average in CISCO 12B. It is also highly recommended that students sign up for Career Preparation Computer Science Work Experience Program (WEX 12A).

- A hands-on course in networking WAN concepts.
- Focus on WAN services.
- Learn to set up, wire and configure routers and switches. There will be an emphasis on the Cisco CCNA Certification Exams.

## CS-ICTM 11 – VIDEO GAME DESIGN 1

DIGITAL MEDIA DEVELOPMENT 11

**Prerequisite:** A 'C+' average in ICTP 11 and permission from ICTP instructor.

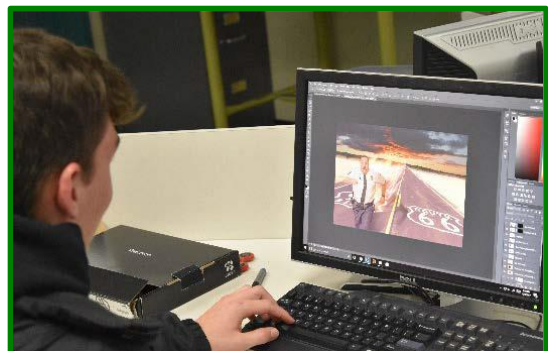
- Provide students with a thorough understanding of the technological and creative aspects of video game design.
- Students will participate in a simulation of a real video game design team, seeing each project from origination to fruition.

## CS-ICTM 12 – VIDEO GAME DESIGN 2

DIGITAL MEDIA DEVELOPMENT 12

**Prerequisite:** A 'B' average in ICTM 11 and permission from instructor.

- The course covers advanced topics not covered in ICTM 11.
- Students will participate in a simulation of a major project from origination to fruition.
- Evaluation is project based.



## CS-ICTP 11 – JAVA

COMPUTER PROGRAMMING 11

**Prerequisite:** A 'B' average in Math 9 or a 'C+' average in Math 10. It is also highly recommended that students sign up for Career Preparation Computer Science Work Experience Program.

- An introduction to computer programming using an object-oriented programming language.
- Students will use the programming language – Java.
- Students will cover fundamental concepts such as design of objects, interaction between objects, and implementations of object methods, through hands-on lab activities, programming assignments, and game design projects.
- Emphasis will be placed on clarity, style and design throughout.

### CS-ICTP 12 – C++

#### COMPUTER PROGRAMMING 12

**Prerequisite:** A 'C+' or better in ICTP 11.

- An introduction to C++ computer programming. Students will use the programming language – C++.
- Students will cover fundamental concepts such as design of objects, interaction between objects, and implementations of object methods, through hands-on lab activities, programming assignments, and game design projects.
- Emphasis will be placed on clarity, style and design throughout.

### CS-AP PROGRAMMING – JAVA

#### COMPUTER SCIENCE 12

**Prerequisite:** A 'B' average in ICTP 12. It is also highly recommended that students sign up for Career Preparation Computer Science Work Experience Program.

- Completion of this course prepares students for an optional AP JAVA exam (cost of \$125.00) which, with a high enough score, allows for transfer credit to post-secondary institutions.
- Students are recommended to take this course in semester 2, the AP exam is in May.

### CS-ICTS 11 – PC REPAIR

#### COMPUTER INFORMATION SYSTEMS 11

**Prerequisite:** A 'C+' average in Math 8 or Science 8. It is also highly recommended that students also sign up for Career Preparation Computer Science Work Experience Program.

- A hands-on course in computer hard-ware and software technology.
- Students will gain the necessary computer hardware/software knowledge and skills to identify, install, configure, upgrade, troubleshoot, and build a computer.
- Emphasis on the A+ Certification Exams. Most PC repair companies require employees to have their A+ certificate.

### CS-ICTS 12 – LINUX

#### COMPUTER INFORMATION SYSTEMS 12

**Prerequisite:** A 'C+' average in Math 8 or Science 8. It is also highly recommended that students also sign up for Career Preparation Computer Science Work Experience Program.

- Focus is on the fundamental of the Linux operating system and command line.
- Students interact with the Linux operating system and build on their skills and knowledge as they progress through the course.
- Emphasis on the LPI Linux Essentials Certification Exams.



## ENGLISH (EN)

The English Department offers several pathways through its programs. Each of these pathways offers a different focus within the English Language Arts curriculum and exists in order to best serve student's individual needs and goals. It is the student's responsibility to ensure his/her program meets any entrance, or special requirements for post-secondary or training institutes.

### EN-ENGLISH 09

**Prerequisite:** English 8

- Focuses on speaking, listening, and academic reading and writing skills.
- Through exploration and reading of several genres of fiction, non-fiction, drama, and poetry, students will begin to learn to critically respond to literary elements in prose and poetry.
- Students will be expected to begin developing sophisticated reading and writing skills for further development in grades 10-12.

### EN-ENGLISH 10 CREATIVE WRITING AND COMPOSITION (4 CREDITS)

- In the **Composition** component of this course, students will develop their academic writing skills through essay and paragraph composition, writing in a variety of modes and engaging in the processes of planning, editing, & refining their ideas for stylistic and grammatical clarity. The **Creative Writing** portion of the course provides students with opportunities to create imaginative and expressive texts for a variety of purposes and audiences. Students will sample the writing of published authors to enhance their own writing skills in genres such as short fiction, poetry, spoken word, drama, and creative non-fiction. Self and peer assessment in the form of writing workshops will develop students' abilities to draft, reflect, edit, and revise their own writing in preparation for the final Portfolio assessment of the course.



### EN-ENGLISH 10 LITERATURE AND COMPOSITION (4 CREDITS)

- In the **Composition** component of this course, students will develop their academic writing skills through essay and paragraph composition, writing in a variety of modes and engaging in the processes of planning, editing, & refining their ideas for stylistic and grammatical clarity. The **Literary Studies** component of this course will focus on literature and the study of literature. Students will learn to critically respond to novels, short stories, poetry, drama, and non-fiction texts through close reading and analysis. Students will also contribute to reconciliation by building greater understanding of the knowledge and perspectives of First Peoples.

### EN-ENGLISH 10 NEW MEDIA AND COMPOSITION (4 CREDITS)

- In the **Composition** component of this course, students will develop their academic writing skills through essay and paragraph composition, writing in a variety of modes and engaging in the processes of planning, editing, & refining their ideas for stylistic and grammatical clarity. In the **New Media** component of this course, students will learn to responsibly use digital tools and recognize the impact digital media has on their lives. Students will learn to critically respond to fiction and non-fiction, including short stories, novels, poetry, articles and a variety of digital media. Students will also contribute to reconciliation by building greater understanding of the knowledge and perspectives of First Peoples.

### EN-ENGLISH 11 LITERATURE (4 CREDITS)

- **Literary Studies 11** students will explore specific themes, periods, authors, or areas of the world through fiction and non-fiction works while continuing to develop their reading, writing, and grammar skills established in the Grade 10 English programs. Students will continue to closely read appropriately challenging texts and analyze and respond to short stories, novels, poetry, drama, and non-fiction prose. Students are required to demonstrate mastery of several types of writing and employ a wide range of reading strategies. Students will also contribute to reconciliation by building greater understanding of the knowledge and perspectives of First Peoples.



### EN-ENGLISH 11 NEW MEDIA (4 CREDITS)

- **New Media 11** students will continue to closely read appropriately challenging texts and analyze and respond to written literature (fiction and non-fiction), as well as a variety of digital media. Students are required to demonstrate a command of different forms of writing, the appropriate use of digital tools, and employ a wide range of reading strategies. Students will also explore the ways digital media and technology impact their lives while continuing to develop their reading, writing, and grammar skills established in the Grade 10 English programs. Students will also contribute to reconciliation by building greater understanding of the knowledge and perspectives of First Peoples.

### EN-ENGLISH 11 COMPOSITION (4 CREDITS)

- **Composition 11** will help students develop their writing, reading and thinking skills. This English course will draw from a variety of fiction and non-fiction texts to help students formulate and communicate their thoughts in a clear and organized manner. Possible areas of focus include expository, persuasive and narrative compositions, vocabulary, grammar, and the writing process. Students will also contribute to reconciliation by building greater understanding of the knowledge and perspectives of First Peoples.

### EN-ENGLISH 11 CREATIVE WRITING (4 CREDITS)

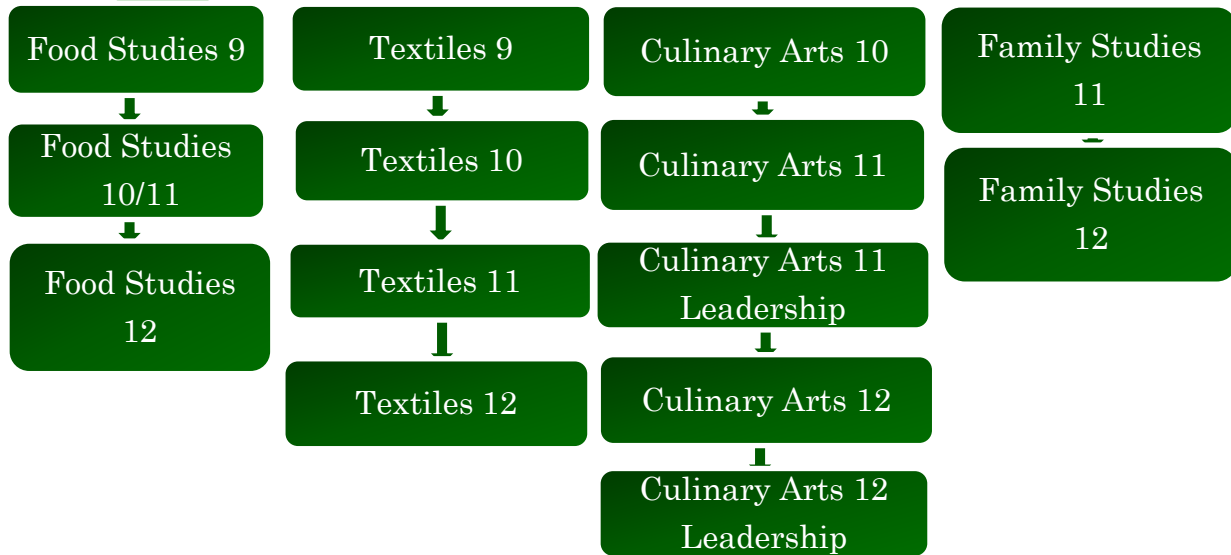
- **Creative Writing 11** provides students with in-depth opportunities to explore personal and cultural identities, memories, and stories in a wide range of genres, experimenting with, reflecting on, and refining their writing skills for various creative purposes & audiences. Students will develop their craft through the reading and study of a diverse selection of sample texts—written, visual, digital, and oral—as a framework for their own development as writers. Students will engage in processes of planning, drafting, work-shopping, editing, & revising to build a Portfolio of writing that represents their growth and development. Students will also explore text and story to deepen their understanding of the way language constructs personal, social, and cultural identity.

### EN-ENGLISH STUDIES 12 (4 CREDITS)

- All students are required to take this course. **English Studies 12** students will build and extend their previous learning in any of the grade 10 and 11 English courses by continuing to refine reading, writing, and grammar skills. Students will think critically and creatively about the uses of language while exploring novels, poetry, drama, short stories, and fiction and non-fiction sources. In exploring these different textual sources, students will deepen their understanding of themselves and others in a changing world while gaining insight into the diverse factors that shape identity. Students will also contribute to reconciliation by building greater understanding of the knowledge and perspectives of First Peoples.



# HOME ECONOMICS (HE)



## HE-FOOD STUDIES 09

**Prerequisite:** None. Open to students in grade 9 or 10.

- Explore cooking and baking techniques as you create a variety of sweet and savory foods. From easy breads to cakes, egg white foams, soups, sauces, meal items, design challenges and more, you'll learn a variety of cooking and life skills while working cooperatively with others.

## HE-FOOD STUDIES 10/11

**Prerequisite:** None, however Food Studies 9 is recommended. Open to students in Grades 10-12. Intermediate course. Students can take Food Studies 10 and Food Studies 11 in consecutive years as curriculum alternates every second year.

- Enhance your culinary skills with techniques to help create food that looks & tastes great.
- Prepare a wide variety of foods from around the world.
- Develop life skills and discover how good nutrition plays a key role in your health.
- Discover a passion for cooking as well as advancing your cooking skills and knowledge.
- You have the opportunity to obtain your FOODSAFE LEVEL 1 certificate in this course, which is a valuable asset in today's job market.
- Students will also develop skills in time management and budgeting while preparing and presenting delicious foods in class.

## HE-FOOD STUDIES 12

**Prerequisite:** Foods Studies 10/11. Open to students in Grade 11 and 12 only.

- This advanced cooking and baking course, for the cooking enthusiast, will expand your skills and help you prepare food with professional results that looks and tastes great.
- Focus is on developing advanced skills and techniques to take your cooking and baking abilities to the next level.
- Prepare specialty breads, pasta, appetizers, soups, stock, salads, salad dressings, entrees, full course meals, desserts, and develop professional decorating skills.
- Learn how to improvise, substitute ingredients and create your own recipes.
- You will improve your efficiency in the kitchen and expand your abilities to create a quality meal with a style that will impress any guest.
- Explore Fusion Cuisine as part of the final project in Food Studies 12, where you will have the opportunity to blend the ingredients of different culinary traditions into one unique dish.

## CULINARY ARTS OVERVIEW

Students enrolled in Culinary Arts take the BC Food Safe Level 1 course before their introduction to our professional teaching kitchen. Students learn basic cooking and baking principles, knife and equipment skills. Students enrolled in the program assist in the daily production of food for a student body and staff, of over 1400 persons. This program is very much a hands-on, work-orientated class, ideally suited to a variety of learning styles and abilities.

### HE-CULINARY ARTS 10

**Prerequisite:** Food Studies course. Open to students in Grades 10-12.

- Learn how to prepare entrees, baked goods, soups and salads.
- Safe food handling techniques.
- Acquire teamwork, organizational and employment skills.
- Food Sustainability.

### HE-CULINARY ARTS 11

**Prerequisite:** Culinary Arts 10. Open to students in Grades 10-12.

- Learn more advanced techniques in food preparation and presentation.
- Learn about dietary and cultural influences in cooking.

### HE-CULINARY ARTS LEADERSHIP 11

**Prerequisite:** Culinary Arts 12

- This course is designed for those who are interested in pursuing the Culinary Arts as a career option.
- It will continue to build on the cooking skills that were introduced in the previous culinary classes and will provide opportunities for developing leadership and kitchen management skills.
- Introduction to some basic psychological concepts such as communication styles and conflict resolution will give students a greater understanding of interpersonal dynamics and prepare them to be a better leader.

### HE-CULINARY ARTS 12

**Prerequisite:** Culinary Arts 11. Open to students in Grade 11 or 12.

- Work more independently to develop cooking skills while preparing a large variety of foods.
- An excellent foundation for cooking at the college level.
- Career Exploration in the Food Industry.

### HE-CULINARY ARTS LEADERSHIP 12

**Prerequisite:** Culinary Arts Leadership 11

This course builds on the concepts of Leadership 11.

Mentorship will be a large focus of this course as well as menu planning and kitchen management.





## HE-TEXTILES 09

**Prerequisite:** None. Open to students in Grade 9 or 10.

- Learn how to make your own clothes and accessories! Textiles 9 is an introductory course to basic sewing skills using sewing machines, sergers and hand stitching.
- Several projects will be prepared in class to introduce you to garment construction.
- Students will work with woven and knit fabrics to make projects such as PJ shorts and hoodies. Most students complete 3-5 projects using a variety of sewing techniques and fabrics.
- Students will apply the design process to create an interactive children's book

## HE-TEXTILES 10

**Prerequisite:** None, however Textiles 9 is recommended. Open to students in Grades 10-12.

- Increase your skill level as you make your own clothes and accessories! This course is useful for beginners as well as those who have already completed a year of Textiles studies in Grade 9 or

middle school.

- Textiles 10 builds on your basic sewing skills using sewing machines, sergers, and hand stitching to create projects suited to your skill level.
- Several projects will be prepared in class including two garments (depending on your skills, this can include a t-shirt or hoodie, and pants, shorts or a skirt).
- Create a bag, and learn how to 'upcycle' – taking a ready-made item and turning it into something new.
- Learn how to enhance your personal wardrobe by assessing garment quality, developing shopping strategies, and understanding your role as a consumer of retail clothing.

## HE-TEXTILES 11

**Prerequisite:** Textiles 9 or 10. Open to students in Grade 11 and 12 only.

- Expand your knowledge of sewing skills and textiles in Textiles 11. Prior sewing experience in Textiles 9 or 10 is required, as you will create new garments and wearable art in this course.
- Construct a variety of projects, determined in class based on your experience, interest and skill level.
- Develop your knowledge of fashion and design principles and gain an understanding of theories related to fashion trends and of how culture, media, retailing, and environmental and social factors influence consumer behaviour.
- Learn how to repurpose items, modify patterns and explore the elements and principles of design and textile functionality.

## HE-TEXTILES 12

**Prerequisite:** Textiles 11. Open to students in Grade 11 and 12 only.

- Focus on fashion in this advanced Textiles 12 course, which builds on your prior sewing experiences.
- Several projects will be constructed based on your individual interests, experience, and abilities.
- Experiment with fibers and fabrics as you construct several projects.
- Learn about the relationship between fiber content, fabric type and textile use as you select advanced projects using fabrics that are more challenging to work with.
- Investigate aspects of the fashion industry, consumerism and the social and historical influences on fashion

## HE-FAMILY STUDIES 11

(INTERPERSONAL & FAMILY RELATIONSHIPS)

**Prerequisite:** None. Open to students in Grades 10-12 only.

- Curious about the ins and outs of teen relationships? Get to know yourself and others better as you learn about the issues related to healthy and unhealthy relationships.
- Explore socio-cultural influences including the media, relationship dynamics, individual characteristics and traits that people bring to relationships, as well as other teen issues.
- Develop communication skills to help you be confident in how you present yourself and how you relate to others.
- Introduces concepts related to conception, pregnancy, infant care and child development

## HE-FAMILY STUDIES 12

(CHILD DEVELOPMENT & CAREGIVING)

**Prerequisite:** None. Open to students in Grade 11 or 12 only.

- A comprehensive exploration of conception, pregnancy, infant care, and child development to age 12.
- As we explore the physical, emotional, cognitive and social development of children, you'll come to understand children's needs and how to meet them.
- There are many opportunities for hands on learning including the real life simulation of caring for an infant.



# HUMAN SERVICES (HS)

## HS-INTRODUCTION TO COUNSELLING SKILLS 11

**Prerequisite:** None

- Course is designed to introduce students to the basic skills necessary to establish and maintain successful helping relationships with peers, family members and other members of society
- Students will develop skills in the areas of interpersonal communication, empathic listening, questioning techniques, ethics, referrals, decision-making and problem solving, peer mediation, mentoring, suicide prevention awareness, assertiveness training, anger management, self-analysis and self-care
- Students will be introduced to skills necessary for working in Human Services: counselling, social work and teaching.
- Evaluation components: journal, various assignments, major mental health project and group work.
- Students will complete a 7-week practicum volunteering as an EA in an elementary school classroom.



## HS-LEADERSHIP 09/10

**Prerequisite:** a "C+" or better and "G" average, and approved application

- The purpose of student leadership is to: Learn and develop as a leader; inspire students to make a difference in our school, community, and world; promote the "columns of character" in our school: respect, integrity, perseverance, passion, empathy, accountability, and achievement.
- Leadership is a project-based course that requires students to actively participate in organizing purposeful school and community events, such as assemblies, fundraisers, spirit activities, community events, etc. In Leadership 9/10 there will be a focus on what it means to be a leader, the development of leadership skills in each student, and "how-to's" of organizing events.
- Students will also be required to attend events and service opportunities outside of class time. Applications can be found online at

<http://www.sardissecondary.ca/ssc-student-leadership-101112> and returned to the SSS school office.



## HS-LEADERSHIP 11/12

**Prerequisite:** a "C+" or better and "G" average, and approved application



- The purpose of student leadership is to: Learn and develop as a leader; Inspire students to make a difference in our school, community and world; Promote the 'columns of character' in our school: respect, integrity, perseverance, passion, empathy, accountability and achievement.
- Leadership is a project-based course that requires students to actively participate in organizing purposeful school and community events, such as assemblies, fundraisers, spirit activities, community events, etc. In Leadership 11/12 students will be able to apply the skills, theory and core leadership values developed in Leadership 9/10 and continue to develop their leadership abilities.
- Students will also be required to attend events and service opportunities

outside of class time. Applications can be found online at <http://www.sardissecondary.ca/ssc-student-leadership-101112> and returned to the SSS school office.

## HS-MINDFULNESS AND MOVEMENT 11

**Prerequisite:** None.

- This course will allow students to participate in gentle forms of movement such as yoga, Pilates, walking, and other forms of light exercise. Students will explore various breathing and meditation techniques as well as other mindful activities. Students will learn about strategies to help manage stress and regulate emotions. A focus on connection to oneself and others will be emphasized. This course is open to students in grade 11-12 of all levels and abilities.

## HS-PEER TUTORING 11

**Prerequisite:** Permission of instructor \*Students must contact their counsellor for application form for approval, otherwise an "Alternate Elective" will be scheduled.

- Peer Tutoring 11 is a combination of teaching/learning theory and application with an emphasis on working with a teacher in a specific subject/grade level.
- Students experience working with other students in one-on-one or small group situations in the student's designated block.
- Current teaching and learning theory is examined, discussed, and applied in practicum situations.
- Assessment focuses on the students' use of knowledge and complex reasoning processes, reflection and growth.
- This course provides students interested in the Human Services and the teaching profession an opportunity to experience and reflect on teaching in a real classroom setting.

## HS-PSYCHOLOGY 11A

**Prerequisite:** Open to students in Grades 10-12. Student must have good reading skills. It is strongly recommended that students have a C average in their previous English course.

- Basic Introduction to Psychology
- Scientific study of behavior and the mind
- Of interest to students who want to understand people- why they do the things they do and think the way they think. Understand yourself and others more.
- Topics include a history of psychology, communication, social thinking and social relations, prejudice and discrimination, the brain, nervous system and hormonal systems, lifespan development, sensation and perception, color psychology, influence of music, stress and health, learning, and intelligence, abnormal behavior and disorders, personality and personality disorders, sleep and dreams, psychological disorders.
- Valuable to students entering human services professions, possible avenue into human services Career Prep Program
- Evaluation will be through assignments, videos, projects, experiments, and tests.

## HS-PSYCHOLOGY 11B

**Prerequisite:** Recommended Psychology 11A.

- Basic Introduction to Psychology
- Scientific study of behavior and the mind
- Of interest to students who want to understand people- why they do the things they do and think the way they think. Understand yourself and others more.
- Topics include how we learn, memory, states of consciousness- sleep and dreams, hypnosis, drugs, thinking, language, intelligence, personality, psychological disorders, personality disorders, psychological and biomedical therapies, cultural psychology, theories of personality
- Valuable to students entering human services professions, possible avenue into human services Career Prep Program
- Evaluation will be through assignments, videos, projects, experiments, and tests.

## HS-AP PSYCHOLOGY 12

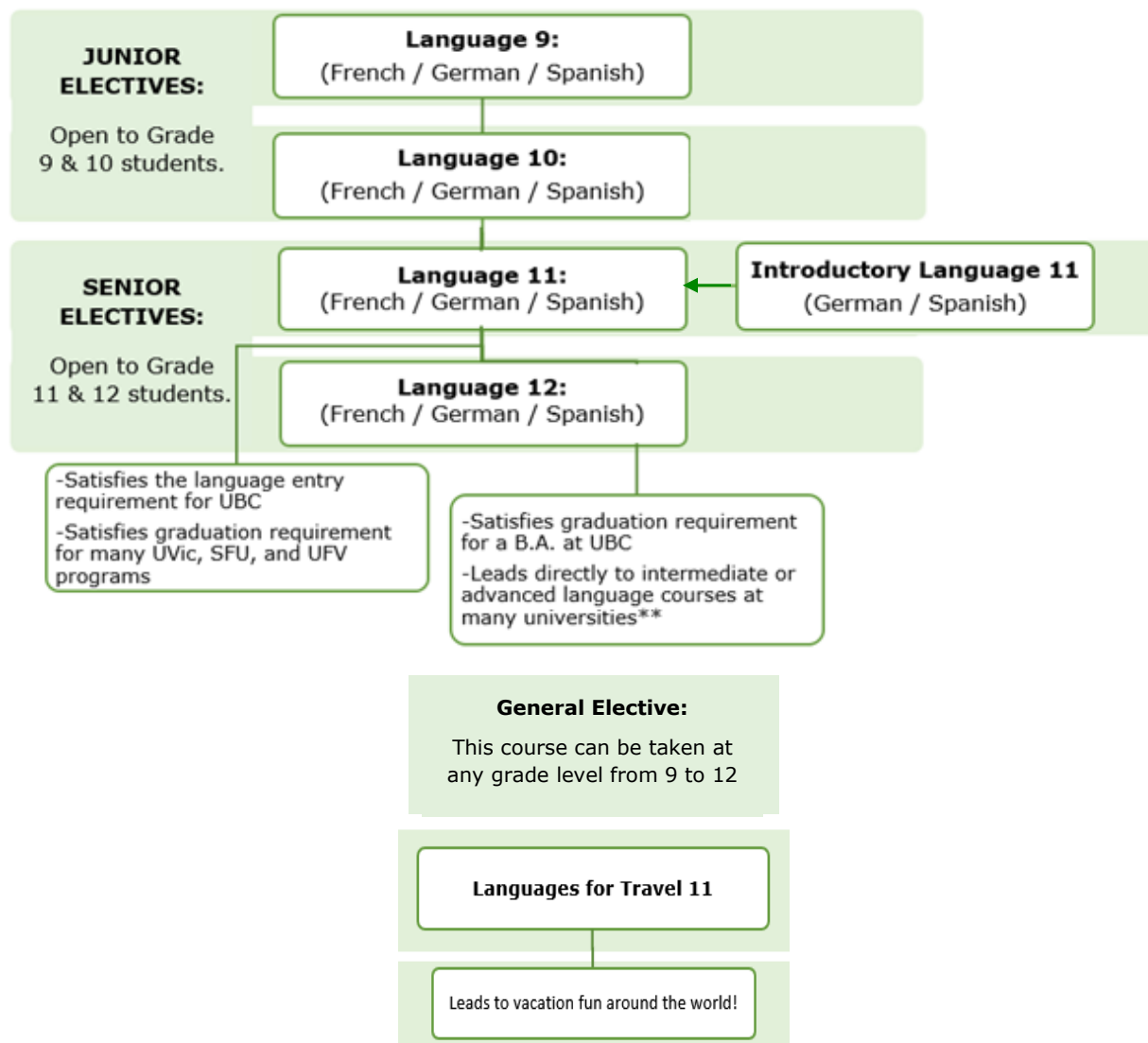
**Prerequisite:** Psychology 11A and 11B. Open to students in Grade 12. Students in Grade 11 eligible with special permission only. It is recommended that students have a B grade in English 11.

- Extensive reading and vocabulary involved
- Introductory Psychology similar to first year college-level Psychology
- Students can develop their background in the Psychology field, particularly those entering the Human Services professions
- Topics included are: the brain, sensation and perception, states of consciousness, memory, intelligence, gender, emotion, personality, psychology disorders, treatment, and psychotherapy, social psychology, stress and health
- Evaluation will be through assignments, projects, quizzes and tests, long answer questions, written reports.
- Optional AP exam in May for a cost of \$125 (For College /University Course Credit)



# MODERN LANGUAGES (LA)

NOTE: Although not a graduation requirement, a second language at the Grade 11 level is required by some British Columbia Universities depending on your intended field of study. Students should clarify their Language requirement with their counselor and the post-secondary institution they plan to attend.



If you speak German, French or Spanish at home, or recently dropped out of French Immersion, talk to the teacher and your counsellor BEFORE choosing your language level.

\*\*Be aware that universities may expect a student to write a test to determine their best placement. However, the following gives a sample of what students can expect after high school:

FR12 – apply directly to intermediate French courses at university (e.g. FREN122 @ UBC; FRAN160 @ UVIC; FREN210 @ SFU; FREN215 @ UFV)

SP12 – apply directly to intermediate Spanish courses at university (e.g. SPAN 201 @ UBC; SPAN 200 @ UVIC; SPAN 103 @ SFU; SPAN201 @ UFV (SPAN300 with department permission)

GE12 – apply directly to upper intermediate or advanced courses at university (e.g. GERM 300 @ UBC; GERM201 @ SFU; GERM301 @ UVIC; NA @ UFV)

## LA-FRENCH 09

**Prerequisite:** French 8

- Are you heading to university and know that most require a "Language 11" credit at some point? Or perhaps you understand that Canada is a bilingual country, and that French is useful? Or better yet, you are passionate about languages and the many professional doors that they open? Then French 9 is the course for you!
- Using a communicative approach combining listening, speaking, reading and writing activities, students will further develop their oral and written abilities.
- French is not just an academic study – students will engage in French-speaking cultures through food, movies, music and other cultural activities. Topics covered include family, food, home, health, and travel in French-speaking countries.
- Students will continue to identify similarities and differences between French cultures and their own.

## LA-FRENCH 10

**Prerequisite:** French 9

- Since you have invested this much time into learning French, don't give up now! Set yourself the goal of becoming bilingual (or even trilingual!) in your time at Sardis.
- Using a communicative approach combining listening, speaking, reading and writing activities, learning will be supported through intermediate vocabulary and grammatical structures.
- Topics covered include Carnaval in Quebec, celebrations, travel in France, daily life and pastimes. Students will identify cultural aspects of Francophone countries and resources.
- Various assessment strategies used to evaluate student progress.

## LA-FRENCH 11

**Prerequisite:** French 10 (80% or better is recommended)

- You have taken French 10, and had so much fun that you can't wait for more? Don't wait! sign up for French 11 and enjoy more French food, history, music, and other cultural activities, while communicating in French!
- Communicative approach using upper-intermediate listening, speaking, reading and writing activities. Communication supported through intermediate vocabulary and grammatical structures.
- Topics include North African French culture, travelling, celebrations, the world around us, and modern France. Students will develop an understanding of cultural aspects of Francophone countries and resources.
- Various assessment strategies used to evaluate student progress.
- This course satisfies many university entrance language requirements in BC (UFV, UBC, SFU, UVic).

## LA-FRENCH 12

**Prerequisite:** French 11 ("B" or better in French 11 is recommended)

- You have taken French 10 and French 11 - why stop now?!? Take another big step towards being bilingual, and count yourself among the dedicated few, the crème de la crème.
- Did you know that French 12 gives you the Graduation Language Requirement for a Bachelor of Arts degree at UBC?
- Communicative approach using advanced listening, speaking, reading, and writing activities.
- Communication supported through advanced vocabulary and grammatical structures.
- Analysis of cultural aspects of Francophone countries and resources.
- Various assessment strategies used to evaluate student progress.





## LA-GERMAN 09

**Prerequisite:** None.

- Oktoberfest, fast cars, sausages and pretzels – sign up for German to find out the truth behind the stereotypes.
- Open to students in any grade wishing to gain a solid foundation in German
- Designed to provide students with a basic knowledge of the language, you will be confident to communicate in German at a rudimentary level.
- It also will introduce students to the geography, history and culture of German-speaking countries.
- Similarities in the structure and vocabulary of German, French and English are explored.

## LA-GERMAN 10

**Prerequisite:** German 9

- You worked hard through German 9 and now you cannot wait to build on the great foundation you already have.
- Examine the truth behind more stereotypes and try German foods, music and movies.
- Emphasis is placed on oral skills and vocabulary development.
- Reading and writing will be taught in conjunction with each unit.
- Together with German 9, the course gives the student a good foundation in basic German vocabulary and oral skills.

## LA-GERMAN 11

**Prerequisite:** German 10, or Introductory German 11 ("B" standing or better is recommended)

- You took Introductory German 11, and had so much fun that you can't wait for more? Don't wait! sign up for German 11 and enjoy more German food, history, music, and other cultural activities, while communicating in German!
- Language is all about communication, and by the end of this course you will be making yourself understood in German, using intermediate listening, speaking, reading and writing activities
- You can't communicate without words, and you'll be bringing your total to over 1600 of them, as well as learning intermediate grammatical structures.
- Here's the really fun part: we get to experience more cultural aspects of German-speaking countries. This means more food, movies, music, etc.
- Various assessment strategies are used to evaluate student progress (not just tests, but all sorts of creative assignments too).
- This course satisfies many university entrance language requirements in BC.

## LA-GERMAN 12

**Prerequisite:** German 11 ("B" or better in German 11 is recommended)

- You have taken Intro German 11 and German 11 - why stop now?!? Take another big step towards being bilingual, and count yourself among the dedicated few, die besten der besten.
- Did you know that German 12 gives you the Graduation Language Requirement for a Bachelor of Arts degree at UBC?
- Students have the option of taking the A2 German Exam test as part of this course, worth an additional 4 external credits (USPRA 11A).
- Increase your vocabulary to 2500 (or over 80% of common communication words) through advanced listening, speaking, reading and writing activities, and master the grammar needed for everyday communication.
- Analysis of cultural aspects of German-speaking countries and resources (yup, this means analyzing TV shows, movies, books, art, music, etc.)
- Various assessment strategies are used to evaluate student progress. (not just tests, but all sorts of creative assignments too).



## LA-SPANISH INTRODUCTORY 09

**Prerequisite:** None

- Tacos, beaches, ponchos and bullfights....is that all there is to know about Hispanic culture? The world is your oyster if you can speak a second language, so why not join the 500 million Spanish speakers around the world! Open up your mind and create options for studying, working and living abroad.
- Open to any student wanting foundational skills in Spanish
- Speak, read and write Spanish at a rudimentary level.
- Explore the geography, history and culture of Spanish-speaking countries.
- Discover the similarities in the structure and vocabulary of Spanish, French and English.

## LA-SPANISH 10

**Prerequisite:** Spanish 9

**"A very high energy class" (B.J.) "You can speak with fellow Spanish citizens at home or on Spanish vacations" (E.R.)**

- Through movies, music and games, students will further explore Hispanic cultures, history and geography.
- Build on previous foundations of oral, written and reading foundations, with an emphasis on aural / oral skills and vocabulary development.
- Apply the similarities between Spanish, French and English to the structures and vocabulary of Spanish.

## LA-SPANISH 11

**Prerequisite:** Spanish 10 or Introductory Spanish 11("B" standing or better in Introductory Spanish 11 is recommended)

**"This class is not all textbook work; we have the most practical cultural experiences" (M.E.)**

**"You get to watch cool Spanish movies" (C.E.)**

**"Sing Enrique Iglesias like a professional!" (R. C.)**

- Acquire enough communication skills and personal confidence to spend entire classes in a café – 100% immersed in Spanish! Performing real life tasks such as this one is one of best indicators of your progress in the Spanish language.
- Students will expand their abilities in speaking, listening, writing and reading Spanish through filed trips, movies, discussion and debates, music and creative writing assignments.
- Deepen understanding of the current social, political, and economic issues facing Hispanic immigrants today.
- Various assessment strategies used to evaluate student progress.
- This course satisfies many university entrance language requirements in BC.

## LA-SPANISH 12

**Prerequisite:** Spanish 11 ("B" standing or better in Spanish 11 is recommended.)

**"Hola Señorita Blaak, I'm studying at UFV now, but am going to Barcelona, Spain in February, and studying there until June 30th. Although, I am currently in the Bachelor of Science program and will be placed in the bio sciences faculty in Spain, I would like to take a Spanish course while I am there, so I can immerse myself in the language." (S.T.)**

- Many Sardis Spanish 12 grads have been awarded internships, co-op work opportunities and practicum experiences in the following fields: medical, sciences, human services and international relations and development. Would you benefit from these incredible opportunities as well?
- Refine aural / oral communication abilities through filed trips, in class debates, discussions and films.
- Students will refine their understanding of the multi-cultural and political issues facing Hispanic cultures today by exposure to current literature and authentic documents.
- Gain a deeper appreciation of the historical Spanish influences in today's Canadian and Hispanic societies by further exploring Hispanic art, music, and dance.

## LA-INTRODUCTORY GERMAN 11

**Prerequisite:** None.

- Did you make a big mistake by not taking German 9 and 10? Well, we're all entitled to make mistakes. Luckily for you, there is Introductory German 11.
- Warning: this course is an intense combination of GE9 and GE10. If you are not academically strong, or if you wish to take your time and learn German properly, you should consider taking German 9 and 10 instead (yes, senior students may take a junior language course).
- Language is all about communication. By the end of this course you will be making yourself understood in German, using introductory listening, speaking, reading, and writing activities.
- You can't communicate without words, and you'll be learning over 800 of them, as well as introductory grammatical structures.
- Here's the really fun part: we get to experience some cultural aspects of German-speaking countries. This means field trips, food, movies, music, etc.
- Various assessment strategies are used to evaluate student progress (not just tests, but all sorts of creative assignments too).
- 

## LA-INTRODUCTORY SPANISH 11

**Prerequisite:** None.

- Coulda...woulda...shoulda taken Spanish 9 and 10, but didn't? It's not too late! This course is for you if need to fast track to Spanish 11 in one semester. Designed for senior students, junior students please refer to Spanish 9 and 10.
- Warning: this course is an intense combination of SP 9 and SP 10. Senior students should take the junior language courses (Spanish 9 and 10) for a more comprehensive and in-depth language learning experience.  
**"Spanish learning and speaking makes other academic courses easier (memory capacity, studying techniques, mathematical thinking)" (R.E.)**  
**"It opens opportunities to study at universities in non-English speaking countries" (C.E.)**
- Please refer to Spanish 9 and 10 for specific learning outcomes and methods used to teach language development. Movies, music and interactive-communicative games are the basis for class activities.

## LA-LANGUAGES FOR TRAVEL 11

**Prerequisite:** None

- Would you like to travel to exotic places, but you're too worried about not understanding the language? Or maybe too scared of making a serious cultural mistake? Do you like learning about history, but don't like exams? Then this is the course for you!
- Introduction to several languages, including a global language (like French or Spanish), a regional language (like German or Italian) and an endangered language (Halq'emeylem) as well as history and culture associated with them.
- Encourages students' interest in discovering other cultures and equips students with skills for international and intercultural travel.
- Assessment is through assignments and projects as well as the students' use of the target languages in class.



# FRENCH IMMERSION (LF)

Students must successfully complete the following ten courses in order to receive their bilingual graduation diploma.

## LF-FRANÇAIS LANGUE 09

**Prerequisite:** Français Langue 8

- Students must be prepared to speak French at all times within the classroom setting.
- Focus on spontaneous, prepared use of French language, grammar study, and the creation and refinement of diverse communication.
- Builds on strategies to negotiate meaning in a variety of documents.
- Evaluation includes classroom activities, tests, projects, and participation in French, as well as final oral exam worth 10%.

## LF-FRANÇAIS LANGUE 10

**Prerequisite:** Français Langue 9

- Students must be prepared to speak French at all times within the classroom setting.
- Focus on spontaneous, prepared use of French language, grammar study, and the creation and refinement of diverse communication.
- Builds on strategies to negotiate meaning in a variety of documents.
- Evaluation includes classroom activities, tests, projects, and participation in French, as well as final oral exam worth 10%.

## LF-FRANÇAIS LANGUE 11

**Pre-requisite:** Français Langue 10

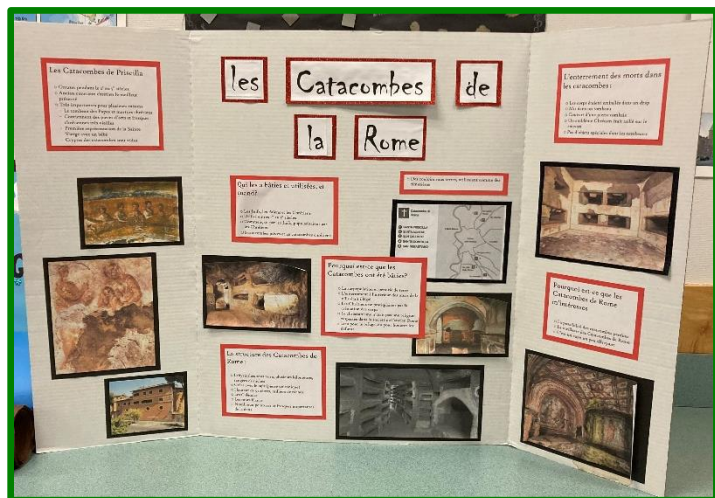
- Students must be prepared to speak French at all times within the classroom setting
- Focus on a refinement of spontaneous and prepared use of the French language; organizing, researching and communicating ideas; developing strategies to improve comprehension.
- Includes grammar review, and literature study and analysis.
- Evaluation includes classroom activities, tests, projects, and participation in French, as well as final oral exam worth 25%.

## LF-FRANÇAIS LANGUE 12

Provincial Exam (40% of Final Mark) required for fulfillment of Ministry Bilingual Dogwood

**Prerequisite:** Français Langue 11

- Students must be prepared to speak French at all times within the classroom setting.
- Focus on a refinement of spontaneous and prepared use of the French language; organizing, researching and communicating ideas; developing strategies to improve comprehension.
- Includes grammar review, and literature study and analysis.
- Course mark includes extensive oral practice, grammar review, and practice writing, as well as a study of various Francophone texts.



## LF- MATHÉMATIQUES 09

**Prerequisite:** Math 8 (This course is taught in French)

- Topics include Rational numbers, Exponent Laws, Polynomials, Solving Linear Equations, Scale diagrams, Probability, and Finance.
- Students taking this course can progress to Foundations and Pre-Calculus Math 10.

## LF-SCIENCES HUMAINES 09

**Prérequis:** Sciences Humaines 8

- Social Studies 9 is a required course and will include content from 1750-1919.
- Students will inquire about how emerging ideas and ideologies profoundly influence societies and events; the physical environment influences the nature of political, social, and economic change; and disparities in power alter the balance of relationships between individuals and between societies.
- This course is taught in French.

## LF-SCIENCES HUMAINES 10

**Prerequisite:** Sciences Humaines 9 (C+ standing or better recommended.)

- Social Studies 10 is a required course for graduation.
- The area of focus is on Canada and the World from 1919 to present.
- Major themes: Global and Regional Conflicts, The development of Political Institutions, World Views and different perspectives, Historical and Contemporary Injustices.
- This course is taught in French.

## LF-EXPLORATIONS EN SCIENCES HUMAINES ET SOCIALES 11

**Prerequisite:** Sciences Humaines 10

- This course will explore various topics in Social Studies.
- Major themes include but are not limited to, colonialism and contemporary issues for indigenous people in Canada and around the world; recognition of and response to genocide; current issues in local, regional, national or global politics as represented in mass media; and systems of power and governments in global cultures.
- This course is taught in French.

## LF-CIVILIZATIONS COMPAREES 12

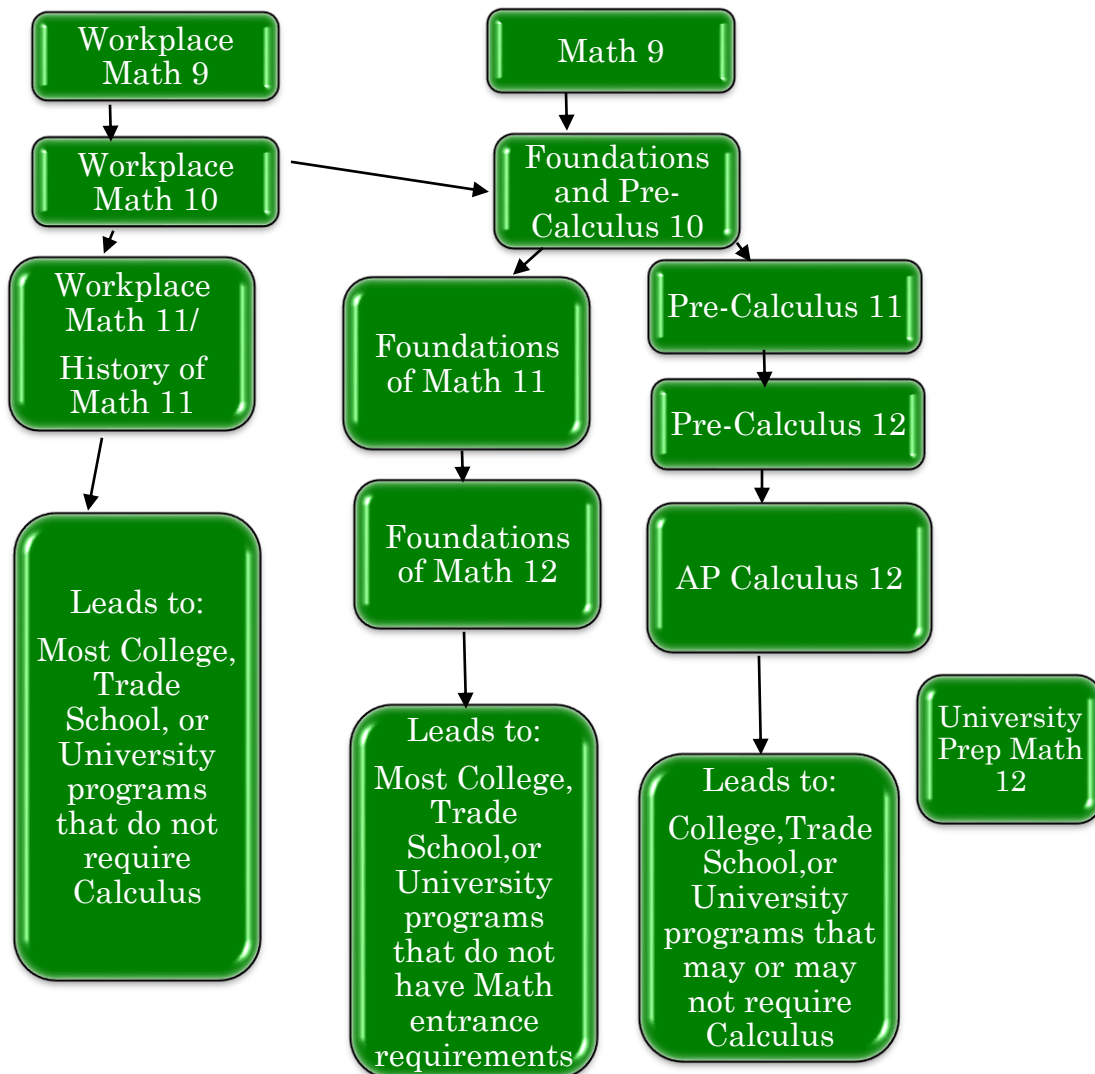
**Prerequisite:** Explorations en Sciences Humaines 11 (C+ standing or better recommended)

- A study of world cultures that enables students to develop an appreciation for diversity within and among cultures.
- Music, literature, art, architecture, performing arts, cultural migrations, and evolution of cultures.
- Language are examples of domains frequently studied in this course as main catalysts for a civilization's beliefs, customs and development through history.
- Taught in French and focuses primarily (not exclusively) on the civilizations included in the Francophonie.



# MATHEMATICS (MA)

The Mathematics Department currently offers four math programs for grade 11 and three for Grade 12: Workplace Mathematics 11; History of Mathematics 11; Foundations of Mathematics 11 & 12; and Pre-Calculus Math 11 & 12. At the grade 10 level, the Math Department offers Foundations & Pre-Calculus 10 and Workplace Math 10. Workplace Math is designed for students who plan to pursue a career in a trade or plan on entering the workplace directly upon graduation. Foundations of Math is designed for students planning to pursue a post-secondary program that does not require Calculus. Pre-Calculus Math is designed for students planning to pursue a post-secondary program that does require Calculus. **The Math Department strongly advises students to research post-secondary programs that they are interested in before choosing any math program.**





## MA-MATH 09

**Prerequisite:** Math 8

- Topics include Rational numbers, Exponent Laws, Polynomials, Solving Linear Equations, Scale diagrams, Probability, and Finance.
- Students taking this course can progress to Foundations and Pre-Calculus Math 10.

## MA-FOUNDATIONS & PRE-CALCULUS 10

**Prerequisite:** Math 9

- Topics include Radicals, Coordinate Geometry, Functions and Relations, Linear Functions, Polynomial Operations, Quadratics Functions, Trigonometry, and Measurement.
- Students taking this course can progress to either Foundations of Math 11 or Pre-Calculus Math 11 with teacher recommendation.

## MA-FOUNDATIONS & PRE-CALCULUS 10 HONOURS

**Prerequisite:** Math 9 with teacher recommendation

- For Course Topics see Foundations Math 10.
- Course will be enhanced with additional problem-solving activities.
- Students taking this course are being prepared for Pre-Calculus 11, 12 and AP Calculus 12.

## MA-FOUNDATIONS OF MATH 11

**Prerequisite:** Foundations and Pre-Calculus Math 10

\*This course is intended for students who plan to take a College or University program that does not require Calculus (i.e. Arts, Humanities).

- Topics include Measurement, Geometry, Logical Reasoning, Statistics, and Relations and Functions.
- A Graphing Calculator (T1-83 or 83 Plus are recommended) is essential for the successful completion of this course.
- Evaluation according to mastery of the criteria of the course as defined by the Ministry of Education.
- A comprehensive final examination worth 30% of the student's final mark
- This course is a prerequisite for Foundations of Mathematics 12.

## MA-FOUNDATIONS OF MATH 12

**Prerequisite:** Foundations of Mathematics 11

This course is intended for students planning to take a College/University program not requiring Calculus (Arts, Humanities).

- Topics include Financial Mathematics (Interest, Investments, Mortgages), Combinatorics, Probability, Graphical Regression Analysis and Geometric Explorations (Fractals, Constructions, Conics).
- A Graphing Calculator (T1-83 or 83 Plus are recommended) or alternative may be required for the successful completion of this course. Evaluation according to mastery of the criteria of the course as defined by the Ministry of Education.
- A comprehensive final examination worth 30% of the student's final mark.

## MA-PRE-CALCULUS 11

**Prerequisite:** Foundations and Pre-Calculus Math 10

This course is intended for students who plan to take a College or University program that requires Calculus (i.e. Sciences, Engineering, Business ...) and some trades programs.

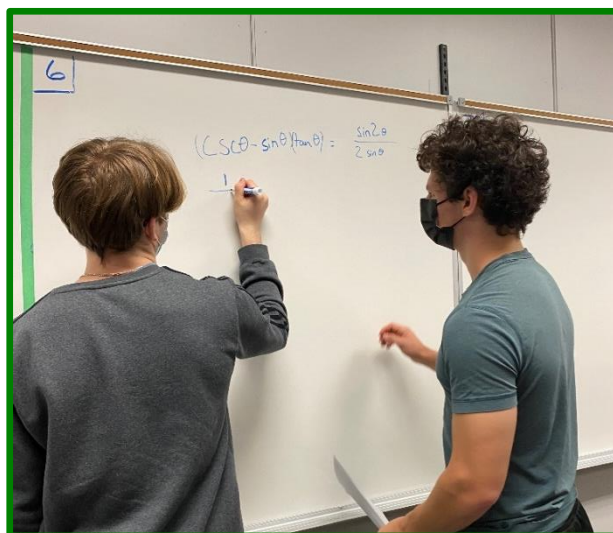
- Topics include Algebra, Trigonometry, and Relations and Functions.
- A Graphing Calculator (T1-83 or 83 Plus are recommended) is essential for the successful completion of this course.
- Evaluation according to mastery of the criteria of the course as defined by the Ministry of Education.
- A comprehensive final examination worth 30% of the student's final mark.

## MA-PRE-CALCULUS 12

**Prerequisite:** Pre-Calculus 11

This course is intended for students who plan to take a College or University program that requires Calculus (i.e. Sciences, Engineering, Business ...) and some trades programs.

- Topics include Trigonometry, Relations and Functions, and Combinations and Permutations.
- A Graphing Calculator (T1-83 or 83 Plus are recommended) is essential for the successful completion of this course.
- Evaluation according to mastery of the criteria of the course as defined by the Ministry of Education.



## MA-AP CALCULUS 12 AB

A comprehensive final examination worth 30% of the student's final mark.

**Prerequisite:** Pre-Calculus Math 11 and should have completed or be taking Pre-Calculus Math 12 concurrently (Sem 1).

- This course is equivalent to 1st year calculus at U.B.C. or S.F.U.
- Credit given at major universities if a sufficiently high score is achieved on the optional AP exam written in May (cost \$115).
- Topics include First and Second Derivatives, Implicit Differentiation, Curve Sketching, Integration and Problem Solving.
- This course is very beneficial for students going into mathematics or science related fields.
- This course may also benefit students requiring only one university level calculus course or wishing to make their first year easier.
- If you have any questions, please contact Mr. Balsillie.

## MA-WORKPLACE MATH 09

**Prerequisite:** Math 8

This course is designed for students who have difficulty with the more abstract concepts found in Math 8.

- Topics covered include integers, rational numbers, the measurement of 2-D and 3-D objects, geometry, and the basics of finance.
- Students taking this course will progress to Workplace Mathematics 10.
- The Workplace stream will lead to graduation but will not meet minimum university entrance mathematics requirements.

## MA-WORKPLACE MATH 10

**Prerequisite:** Math 9

This course is designed for students who plan to pursue a career in some trades and for students who have difficulty with the more abstract concepts found in Foundations and Pre-Calculus Math 10.

- Topics covered include the metric and imperial systems, the measurement of 2-D and 3-D objects, geometry, trigonometry and the basics of income, spending and debt.
- Students taking this course will progress to Apprenticeship and Workplace Mathematics 11.
- Consult your Math teacher before selecting. Many university programs require Foundations of Math 10 as an entrance requirement.

## MA-WORKPLACE MATH 11

**Prerequisite:** Workplace Mathematics 10

- Practical math for students who experience difficulty with more abstract concepts found in Foundations of Math 11.
- Topics include slope and ratio change, graphical representations, surface area, volume, capacity, trigonometry, scale representations; financial services and personal budgets.
- Consult your current Math teacher before selecting this course. Many university programs require Pre-Calculus 11 or Foundations of Math 11 as an entrance requirement.
- Evaluation according to mastery of the criteria of the course as defined by the Ministry of Education.

## MA-UNIVERSITY PREP MATH

- This course is designed to cover the concepts that are left out of the Pre-Calculus stream of Mathematics that are important prerequisites for many university level math courses.
- Concepts to be covered include geometry, probability, statistics, logic and reasoning, and linear algebra.
- This course is a high level mathematics course designed for those who have completed Pre-Calculus 12 and/or are interested in attending Canadian and American universities.



## MUSIC (MU)

### MU-CONCERT BAND 9/10

**Prerequisite:** Previous level of Band or permission of instructor.

- Performance course for young musicians who would like to continue developing musical ability on their chosen instrument.
- Some co-curricular rehearsals may be required.
- Learning will be assessed through performance tests, class performance, class participation, attendance, assignments, concerts, practising, and general effort.
- All performances are mandatory.
- Students are required to provide their own instrument or rent one from a music store.

### MU-CONCERT BAND 11/12

**Prerequisite:** Previous level of Band or permission of instructor.

- A performance course for the student who would like to continue to develop abilities on their chosen instrument.
- Students may be required to attend co-curricular rehearsals.
- Assessment through performance tests, class participation, extra rehearsals, concerts, class performance, attendance, assignments, practising, and general effort. All performances are mandatory.
- Students will be required to provide their own instrument or rent an instrument from a music store.

### MU-CONCERT CHOIR 9-12

**Prerequisite:** Open to all students.

- Performance course with students developing vocal skills using a variety of music predominantly choral idiom. Will explore jazz and other world choral music as well.
- Assessment through class participation, attendance, concerts, assignments, performance testing, and general effort - all performances are mandatory.

### MU-DRUMLINE 9/10

**Prerequisite:** Participation in another band/choral ensemble, or permission of instructor.

- Meets outside the timetable – Mondays at lunch, Thursdays 2:45-4:30 p.m.
- Recommended for all percussionist musicians both experienced and beginners.
- "Step by step" approach to wide variety of techniques used in a contemporary drumline percussion ensemble.
- Students receive instruction on snare drum, tenors, bass drum and cymbals.
- Topics include: stick/mallet choices, grips, sound production, stroke techniques, dynamic control, proper warm-up routines, listening responsibilities and timing/balance.
- Attention given to both the playing and marching aspects of this unique style of performance.



### MU-DRUMLINE 11/12

**Prerequisite:** Participation in another band/choral ensemble, or permission of instructor.

- Meets outside the timetable – Mondays at lunch, Thursdays 2:45-4:30 p.m.
- Recommended for all percussionist musicians, both experienced and beginners.
- "Step by step" approach to wide variety of techniques used in a contemporary drumline percussion ensemble.
- Students receive instruction on snare drum, tenors, bass drum and cymbals.
- Topics include: stick/mallet choices, grips, sound production, stroke techniques, dynamic control, proper warm-up routines, listening responsibilities and timing/balance.
- Attention given to both the playing and marching aspects of this unique style of performance.

### MU-GUITAR 9/10

**Prerequisite:** None

- Develop skills in chording, finger-picking and writing.
- Attention given to theory and playing as an ensemble.
- Will learn to play contemporary popular music.
- Assessed through tests, performances and participation.

### MU-GUITAR 11/12

**Prerequisite:** None

- Develop skills in chording, finger-picking and writing.
- Attention given to theory and playing as an ensemble.
- Will learn to play contemporary popular music.
- Assessed through tests, performances and participation.

### MU-JAZZ BAND 9/10

**Prerequisite:** Audition. Students enrolling in Jazz Band must also enroll in Concert Band.

- Provides students with the opportunity for artistic achievement and enrichment through the study and performance of high quality, challenging and stylistically diverse jazz music.
- Creates an atmosphere of musical and personal growth through commitment to high standards of respect and cooperation for members of the ensemble, instructors, facilities, musical materials, and the rehearsal process.
- Create improvisation solos in a performance setting, learn funk, fusion, swing, ballad rock, and other contemporary forms of jazz band and combo music. Jazz History is taught alongside performance skills.
- Performances are mandatory. Students are required to provide own instrument or rent instrument from a music store.

### MU-JAZZ BAND 11/12

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- Create improvisation solos in a performance setting, learn funk, fusion, swing, ballad rock, and other contemporary forms of jazz band and combo music. Jazz History is taught alongside performance skills.
- Performances are mandatory. Students are required to provide own instrument or rent instrument from a music store.

### MU-MUSIC COMPOSITION 9-12

**Prerequisite:** None

- On-going writing of musical compositions and performances.
- Includes theory, history, production of sound, arranging, ear training.
- Making musical instruments.
- Assessment through projects, assignments and performances.





## MU-AP MUSIC THEORY 12

**Prerequisite:** None.

- AP Music Theory is for any student that wishes to take an advanced music theory and musicianship course. This course is similar to what first and second year students at university would take. Musicianship skills, including dictation and other listening skills, sight singing, and harmony are considered an important part of the course. Students will develop the ability to recognize, **understand**, and describe basic materials and processes of tonal music that are heard or presented in a variety of musical scores. Development of aural skills (ear training) is a primary objective. Performance is also part of the curriculum through the practice of sight singing and ear training. Students will understand basic concepts and terminology by listening to and analyzing a wide variety of music. Notational skills, speed, and fluency with basic music are also emphasized. There will be an AP exam at the end of this course.

## MU-RECORDING ARTS 10-12

**Prerequisite:** None

- This course will provide a hands-on overview of the professional music industry and the ins and outs of recording with digital media.
- Look at the development and evolution of recorded audio in society.
- Emphasis on many aspects of music including musical composition and sound for motion pictures.
- Using computer-based recording techniques, students will be taking a hands-on approach to music creation. Here each student will be able to produce their own recordings.
- At the end of the course, students will have their own fully produced digital portfolio or EP.

## MU-STRING ORCHESTRA 9-12

**Prerequisite:** At least one year of musical instruction required. Open to students from grades 9-12.

- Designed to introduce students to the orchestral strings (violin, viola, cello, and double bass) and to enhance the skills of students who have previous experience with orchestral strings.
- Assessment through attendance, class participation, performance tests, assignments, concerts, and general effort.
- All performances are mandatory.
- Students will be required to provide their own instrument or rent from a music store - a string rental night will occur in early Sept.



## *PERFORMING ARTS (PA)*

### PA-BROADCAST MEDIA PRODUCTION 11

**Prerequisite:** None. Open to students in Grades 10, 11, 12.

- Focus on the basic techniques of audio, video, lighting, as well as video production, and television broadcasting.
- Students will apply the knowledge, skills, and attitudes gained from the course to produce videos and media broadcasts.
- Students will use media based programs to produce some of their projects.
- Evaluation on project work, production work, equipment management, and self-management.

## PA-BROADCAST MEDIA PRODUCTION 12

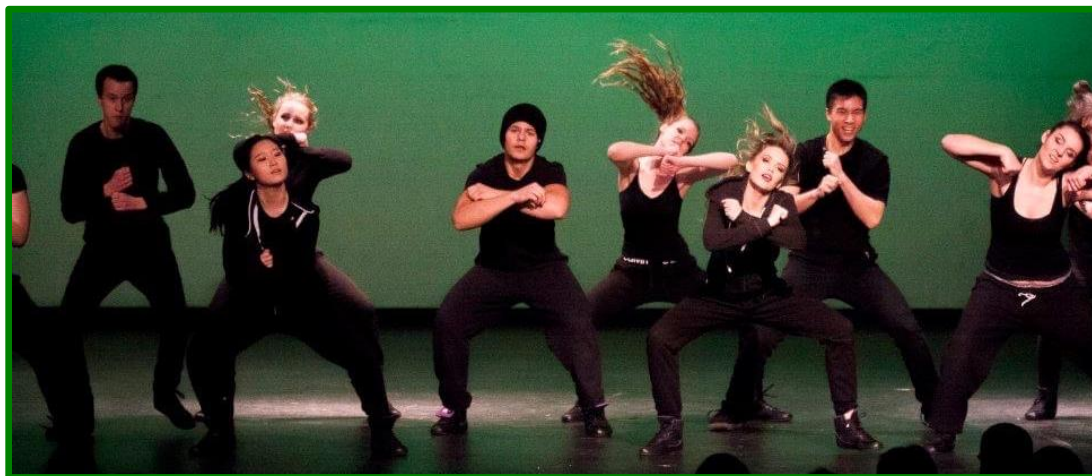
**Prerequisite:** Film & Television 11 or Broadcast Media 11 recommended. Open to students in Grades 11 and 12.

- Focus will be exploring areas of multimedia production, digital media, podcasts, storytelling, radio, and broadcast production.
- Based on prerequisite course history, students will have choice in areas explored.
- Select projects will allow students to work areas of media production.
- Focus on hands-on and interactive learning situated in a rich spectrum of knowledge and skills.
- Students will use media based programs to produce some of their projects.
- Evaluation on project work, production work, equipment management, and self management.

## PA-CHOREOGRAPHY 11/12

**Prerequisite:** Dance Foundations 11 / 12, and permission of instructor

- Exploration of the elements of movement within choreographic structures.
- Focus on kinesthetic and spatial awareness, and principles of design.
- Describe, interpret, and analyze dance techniques and works using dance notation.
- Learn techniques of effective lesson planning as well as procedures to prevent injury or harm to self and others.
- Acquire and refine creative, collaborative, and leadership skills through practical teaching experiences both within the class and in other venues.
- Note: This course runs independently within the Dance Foundations 9/10 or 11/12 classes. Course is individualized and requires the completion of a Dance Portfolio.



## PA-DANCE FOUNDATIONS 09

**Prerequisite:** None. Open to students in grade 9.

- Introduction to the elements of movement (body, space, time, dynamics and relationships) and movement principles.
- Introduction and progression through a variety of dance technique.
- Interaction, reflection, and response to choreographic structures.
- Introduction of historical, social, and traditional perspectives of dance.
- Genres of performance pieces will vary semester to semester.
- Projects and tasks will vary based on Dance Foundations 9 or 10.
- Note: There is a mandatory final performance.

## PA-DANCE FOUNDATIONS 10

**Prerequisite:** None

- Introduction to the elements of movement (body, space, time, dynamics and relationships) and movement principles.
- Introduction and progression through a variety of dance technique.
- Interaction, reflection, and response to choreographic structures.
- Introduction of historical, social, and traditional perspectives of dance.
- Genres of performance pieces will vary semester to semester.
- Projects and tasks will vary based on Dance Foundations 9 or 10.
- Note: There is a mandatory final performance.

## PA-DANCE FOUNDATIONS 11/12

**Prerequisite:** Dance Foundations 10 recommended.

- Further exploration of the elements of movement (body, space, time, dynamics, and relationships) and movement principles.
- Progression in technique and application of technique to choreography.
- Interaction, reflection, and response to choreography structures, including a project with the goal of creating/learning choreography and teaching it to peers.
- Further exploration of historical, social, and traditional perspectives of dance.
- Genres of performance pieces will vary semester to semester.
- Projects and tasks will vary based on Dance Foundations 11 or 12.
- Note: There is a mandatory final performance.



## PA-DRAMA 9

**Prerequisite:** Previous drama an asset, but not required.

- Exploring, scripting, characterization, mime, dance, improvisation, role playing, sense, story telling, choral speaking, cooperative game playing and more exploration.
- Ongoing participation, written reflection, personal evaluation.

## PA-FILM & TELEVISION 9

**Prerequisite:** None

- Focus on learning the basic techniques of video production.
- Begin learning the essentials of video camera operation and storytelling.
- Gain experience with non-linear editing systems and other media-based programs.
- Basic techniques in lighting and sound for live performance will also be a focus.
- A variety of assignments will reinforce these concepts so that the student's work becomes polished.
- At appropriate times during the course, video and media concepts will be discussed and explored.
- Evaluated on project work, assignments, equipment management, and self-management.

## PA-FILM & TELEVISION 10

**Prerequisite:** Film & Television 9 recommended. Open to students in grade 10 and 11.

- Student groups experience the whole process of film making (in front of & behind the camera), as they produce several short films.
- Included is the original story concept, development of a treatment, storyboard and the script.
- Pre-production looks at casting, blocking, shot lists, and the development of a rehearsal and shooting schedule, while addressing the logistics of locations, costumes and props.
- Production involves directing, acting, and filming.
- In post-production, video footage is logged and edit decisions lists (EDLs) created.
- Everything comes together by way of computer based non-linear editing.
- At appropriate times during the course, the use of the camera, and audio and lighting fundamentals are taught, along with screen language, and some basic acting techniques, so that the students are able to successfully film and deliver believable performances.
- Evaluated on project work, tests, equipment management, and self-management.

## PA-FILM & TELEVISION 11

**Prerequisite:** Film & Television 10 recommended. Open to students in grades 10 and 11.

- Focus on exploring various genres of film and television.
- Select stories to tell and develop within different genres
- Develop treatments, storyboards, and scripts that illustrate student grasp of screen language, and the utilization of the artistic components of film and television.
- After compiling a shot list and filming, students will use non-linear computer-based editing to produce their films.
- Evaluation is on project work, production work, equipment management, and self-management.

## PA-FILM & TELEVISION 12

**Prerequisite:** Film & Television 11 recommended. Open to students in grades 11 and 12.

- Focus on exploring independent film.
- Select stories to tell and develop for independent film.
- Development of treatments, storyboards, and scripts that illustrate student's grasp of screen language and the utilization of the artistic components for independent film.
- After compiling a shot list and filming, students will use non-linear computer-based editing to produce their film.
- Evaluation is on project work, production work, equipment management, and self-management.

## PA-THEATRE PRODUCTION 09

**Prerequisite:** None. Open to students in Grade 9.

- Introduction to technical theatre.
- Participation in all aspects of technical theatre (stage management, lighting design and operation, set design and construction, sound design, costume design and wardrobe management, makeup, properties construction and management, and stage crew responsibilities) working towards a major production.
- Technical work on dance, theatre, music, and other school presentations is also expected.
- Evaluation: 50% project work, test scores & assignment completion and 50% attitude (dependability, reliability & work habits).

## PA-THEATRE PRODUCTION 10

**Prerequisite:** Theatre Production 9. Open to students in grades 10 and 11.

- Participation in all aspects of technical theatre (stage management, lighting design and operation, set design and construction, sound design, costume design and wardrobe management, makeup, properties construction and management, and stage crew responsibilities) working towards a major production.
- Technical work on dance, theatre, music, and other school presentations is also expected.
- Evaluation: 50% project work, test scores & assignment completion and 50% attitude (dependability, reliability & work habits).

## PA-THEATRE PRODUCTION 11

**Prerequisite:** Theatre Production 10 recommended. Open to students in grades 11 and 12.

- A continuation of the drama support program established at the grade 10 level
- Requirement: to develop a concentration in three or more of the following areas: stage management, lighting, sound, costume, makeup, set design, set construction, properties design & construction, stage crew, and wardrobe.
- Evaluation: 50% project work, test scores & assignment completion and 50% for attitude (dependability, reliability & work habits).

## PA-THEATRE PRODUCTION 12

**Prerequisite:** Theatre Production 11 recommended. Open to students in grades 11 and 12.

- A continuation of the drama support program established at the grade 11 level.
- Students will take on roles of management as they work with theatre production crews in the areas of technical theatre: set design and construction, properties, sound, lighting, costume, makeup, stage management, and tech crew.
- Evaluation: 50% project work, test scores, and assignment completion; and 50% for attitude (dependability, reliability & work habits).



## PA-THEATRE PRODUCTION 11/12: DIRECT/WRITE

**Prerequisite:** Previous performance course

- The study, writing, and performance of student-written scripts.
- Look at major playwrights through theatre history.

Students must be prepared to write, act, and direct.

## PA-THEATRE & PERFORMANCE 10-12

**Prerequisite:** Drama 9

- Develop a deeper understanding of theatre arts through the study of theatrical skills of history and styles of acting.
- Further emphasis on honing skills & tools needed to develop increased competency in acting and stage performance.
- Helpful to students whose career choices will lead them to areas such as: Public Speaking, Journalism /Broadcasting, Publications, English Literature and Law.
- Evaluation based on: learning the craft. (commitment, attendance in class and at rehearsals; practice learning lines, rehearsing, and character development; terms and definitions - learning and using terms related to acting and performance); knowledge acquisition (rehearsing, learning lines); and development and progress. Each term students' work will be assessed as to their progress in understanding and performance. Student journal (charting your own progress) 20%.



## PA-MUSICAL THEATRE (OUT OF TIMETABLE) 9-12\*

\* This course exists outside of the timetable and will be an addition to your other 8 selections.

**Prerequisite:** By audition only - open to Grades 9-12. This is an advanced multi-art course for students who are interested in live musical theatre performance.

### **Audition Requirements:**

- 1. Must be prepared to sing, dance and act**
- 2. Must prepare a one-minute monologue**

**Audition:** T.B.A. - Please contact Ms. Guy for appointment.

- Learn acting, singing, dancing and/or movement as it applies to the year's major musical production
- In addition to rehearsing the production, students may be expected to do two or three reading and writing assignments and a term project. Evaluation: performance and rehearsal commitment.
- A daily after school class during Semester 1.
- This course will be added to the student's timetable following the audition phase in late spring.



## ***PHYSICAL AND HEALTH EDUCATION (PHE)***

### **PHE-PHYSICAL & HEALTH EDUCATION 09**

**Prerequisite:** Physical Education 08

- As an extension of PHE 8, students will:
- Develop an understanding of how lifelong participation in physical activity has many benefits and is an essential part of a healthy lifestyle.
- Develop an understanding how healthy choices influence our physical, emotional, and mental well-being.
- Participate in a variety of activities that will promote lifelong participation in physical activity.
- Be evaluated on fitness, skills, effort, and participation. Active participation is required for all students.

### **PHE-PHYSICAL & HEALTH EDUCATION 9 - ALTERNATE DELIVERY**

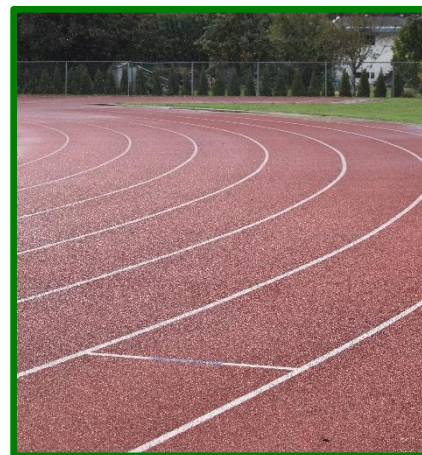
**Prerequisite:** Physical Education 08

- This course is designed to help those students receive PE 09 credit that would normally choose a Distance Education route.
- Designed to assist in the development of physical fitness skills and knowledge to pursue a healthy lifestyle in a classroom setting.
- Designed to deliver Mental Health Literacy Education Curriculum
- Students will research & report on aspects of physical fitness to include but not limited to nutrition, psychology and conditioning.
- Students will be required to maintain a weekly activity log.
- The course involves students developing individualized goals and demonstrate knowledge and implement a training program.

## **PHE-PHYSICAL & HEALTH EDUCATION 10**

**Prerequisite:** Physical Education 09

- As an extension of PHE 9, students will:
- Develop an understanding of how lifelong participation in physical activity has many benefits and is an essential part of a healthy lifestyle.
- Develop an understanding how healthy choices influence our physical, emotional, and mental well-being.
- Participate in a variety of activities that will promote lifelong participation in physical activity.
- Be evaluated on fitness, skills, effort, and participation. Active participation is required for all students.



## **PHE-PHYSICAL & HEALTH EDUCATION 10 - ALTERNATE DELIVERY**

- This course is designed to help those students receive PE 10 credit that would normally choose a Distance Education route.
- Designed to assist in the development of physical fitness skills and knowledge to pursue a healthy lifestyle in a classroom setting.
- Students will research & report on aspects of physical fitness to include but not limited to nutrition, psychology and conditioning.
- Student will receive basic First Aid training. Students will be required to maintain a weekly activity log.
- The course involves students developing individualized goals and demonstrate knowledge and implement a training program.

**This course does not count as a prerequisite to PHE 11**

## **PHE- PHYSICAL & HEALTH EDUCATION 10 - HEALTH & FITNESS FOCUS**

**Prerequisite:** Physical & Health Education 09

- Students will participate in daily activity covering all the key components of a balanced fitness program (cardiovascular, muscular endurance, strength and flexibility.)
- Students will be exposed to a variety of fitness classes (aerobics, step, kickboxing, boot camp, Pilates, yoga and more.) All fitness levels are welcome.
- Students will learn how healthy choices influence and are influenced by: their physical, emotional, and mental well-being and will set goals to achieve.
- Students will develop skills and knowledge to maintain a healthy active lifestyle beyond graduation.
- Students will receive credit for PE10, which fulfills one of their graduation requirements.

## **PHE-HEALTH & FITNESS 11**

**Prerequisite:** Physical and Health Education 10

- Students will participate in daily physical activity covering all the key components of a balanced fitness program (cardiovascular, muscular endurance, strength and flexibility.)
- Students will learn proper/safe techniques for all strength training exercises using a variety of equipment and exercise styles.
- Students will participate in a variety of fitness classes (aerobics, step, kickboxing, boot camp, pilates, yoga and more). All fitness levels welcome.
- Students will learn how personal choices influence their health and fitness goals.
- Students will develop skills and knowledge to maintain a healthy active lifestyle beyond graduation.
- Students will fulfill the requirements for a PE11 credit.



## **PHE-HEALTH & FITNESS 12**

**Prerequisite:** Physical and Health Education 11

- Combines daily physical activity covering all the key components of a balanced fitness program (cardiovascular, muscular endurance, strength and flexibility).
- Students will participate in a variety of fitness classes (aerobics, step, kickboxing, boot camp, pilates, yoga and more.) All fitness levels welcome.
- Students will learn proper/safe techniques for all strength training exercises using a variety of equipment and exercise styles.
- Students will learn how personal choices influence their health and fitness goals.
- Students will develop skills and knowledge to maintain a healthy active lifestyle beyond graduation.
- Students will fulfill the requirements for a PE12 credit.

## **PHE-HEALTH SERVICES 11**

**Prerequisite:** Physical Education 10

- A practical course for students interested in any Health Services job (from doctor to fitness trainer to firefighter).
- Topics include resuscitation, first aid, fitness theory, sports injuries, different environments, and introduction to professions.
- Certification in CPR 'C' and SFA is available within the course; and materials from athletic taping, sports first aid, concussion management and fitness theory are covered.

## **PHE-ACTIVE LIVING 11**

**Prerequisite:** A passing grade in Physical & Health Education 10

- This course will emphasize the preparation for an active and healthy lifestyle after students leave school. Students will participate and develop skills in a variety of physical activities that have the potential for lifelong involvement.
- LIFETIME SPORTS AND LEISURE ACTIVITIES are the MAJOR FOCUS.
- The course will consist of activities which use both school and community facilities. The choice of activities will be made by individual classes from the following options: Ice skating, curling, hiking, bowling, racquet ball, badminton, basketball, ultimate frisbee, volleyball, aerobics, minor games, and racquet sports, and many community-centered leisure activities.
- Students will have input into what activities they would like to see in class. Evaluation is based on activities and criteria developed from the learning outcomes as stated in the provincial core P.E. curriculum.
- This course is ideal for the PE student who is not interested in sport specific classes (PHE SOCCER/BASKETBALL) or students who are not interested in Strength and Conditioning or to select both a specific PE course along with Active Living.

## **PHE-ACTIVE LIVING 12**

**Prerequisite:** A passing grade in Active Living 11

- This course will emphasize the preparation for an active and healthy lifestyle after students leave school. Students will participate and develop skills in a variety of physical activities that have the potential for lifelong involvement.
- LIFETIME SPORTS AND LEISURE ACTIVITIES are the MAJOR FOCUS.
- The course will consist of activities which use both school and community facilities. The choice of activities will be made by individual classes from the following options: Ice skating, curling, hiking, bowling, racquet ball, badminton, basketball, ultimate frisbee, volleyball, aerobics, minor games, and racquet sports, and many community-centered leisure activities.
- Students will have input into what activities they would like to see in class. Evaluation is based on activities and criteria developed from the learning outcomes as stated in the provincial core P.E. curriculum.
- This course is ideal for the PE student who is not interested in sport specific classes (PHE SOCCER/BASKETBALL) or students who are not interested in Strength and Conditioning or to select both a specific PE course along with Active Living.

## **PHE-STRENGTH & CONDITIONING 11/12**

**Prerequisite:** A 'B' grade in the previous Physical Education course and a high level of personal motivation. Designed to prepare students to achieve short term strength & conditioning goals as part of a lifelong active lifestyle. Grade 10 students may take this course based on Teacher permission only.

- This course involves students in developing individualized goals and implementing the training program to succeed.
- Evaluation: Training program development 25%; Training journal entries 25%; Practical participation 50%.

## **PHE-STRENGTH & CONDITIONING 11/12 (AM)**

**Prerequisite:** A 'B' grade in the previous Physical Education course and a high level of personal motivation. Grade 10 students may take this course based on Teacher permission only.

**THIS CLASS RUNS EVERY OTHER DAY, FROM 7AM to 8:10AM**



- Designed to prepare students to achieve short term strength & conditioning goals as part of a lifelong active lifestyle.
- This course involves students in developing individualized goals and implementing the training program to succeed.
- Evaluation: Training program development 25%; Training journal entries 25%; Practical participation 50%.
- This option is for elite athletes that want to add to their current training program OR students that are committed to a healthy, active lifestyle, but due to timetable restraints are not able to schedule it into their regular course load.

## **SPECIALIZED PHE PROGRAMS AND ACADEMIES**

### **PHE-PHE LEADERSHIP 9-12**

**Prerequisite:** A "B" grade or higher in previous Physical Education Courses. Open to students in grades 9 through 12. Application required.

- Designed to introduce and involve students interested in coaching, sports administration, minor officiating, and careers in the athletic and recreational disciplines.
- Promotes leadership as it relates to leisure activities and athletics.
- Group activities include: team-building activities, PE (including fitness, soccer, basketball, volleyball, baseball, floor hockey, minor games, etc.) and the introduction of community-based activities (curling, skating, swimming, etc.)
- Students are provided with the opportunity to organize special events, such as the Terry Fox Run, pep rallies, Alumni Basketball Game, Strong Man Competition, gym blasts, Intramurals, and more.
- Daily participation in the following areas: daily physical activity, planning special school events, intramurals, and coaching & teaching.





## PHE-PHE BASKETBALL 9

**Prerequisite:** Designed for motivated athletes in grade 9. Application must be filled out as a prerequisite.

- PHE Basketball 9 fulfills the prescribed learning requirements for Physical Education 9.
- Designed for motivated athletes in grade 9 who wish to continue their passion of basketball by focusing on a training regime through a sport specific program.
- This course will assist students in building Basketball specific skills such as: individual skills, team formations, and tactical awareness. Supplemented with plyometric, sport specific weight training, agility and core training, aerobic and anaerobic training.

**No extra tuition fee is charged for PHE Basketball.**

## PHE-PHE BASKETBALL 10-12

**Prerequisite:** Designed for motivated athletes in grades 10 -12. Application required.

- PHE 10 -12 Basketball fulfills the prescribed learning requirements for Physical Education 10 - 12.
- PHE Basketball 10 -12 fulfills the prescribed graduation requirement for PHE 10.
- Designed for motivated athletes in grades 10 -12 who wish to continue their passion of basketball by focusing on a training regime through a sport specific program.
- This course will assist students in building Basketball specific skills such as: individual skills, team formations, and tactical awareness. Supplemented with plyometric, sport specific weight training, agility and core training, aerobic and anaerobic training.

**No extra tuition fee is charged for PHE Basketball.**

## PHE-PHE SOCCER 10-12

- **Prerequisite:** Open to students in grades 10 - 12. Application required.
- PHE Soccer 10 fulfills the prescribed graduation requirement for Physical Education 10.
- Designed for all levels of athlete in grades 10 -12 who wish to continue their training regime through a sport-specific program.
- This course will assist students in building soccer specific skills such as: individual skills, team formations, and tactical awareness. Supplemented with plyometric, sport specific weight training, agility and core training, aerobic and anaerobic training.
- **No extra tuition fees are charged for PHE Soccer.**
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## PHE-PHE VOLLEYBALL 10 -12

**Prerequisite:** Designed for motivated athletes in grades 10 -12. Application required.

- PHE 10 -12 Volleyball fulfills the prescribed learning requirements for Physical Education 10 -12.
- PHE Volleyball 10 fulfills the prescribed graduation requirement for PHE 10.
- Designed for motivated athletes in grades 10 -12 who wish to continue their passion of Volleyball by focusing on a training regime through a sport specific program.
- This course will assist students in building Volleyball specific skills such as: individual skills, team formations, and tactical awareness. Supplemented with plyometric, sport specific weight training, agility and core training, aerobic and anaerobic training.

**No extra tuition fee is charged for PHE Volleyball.**

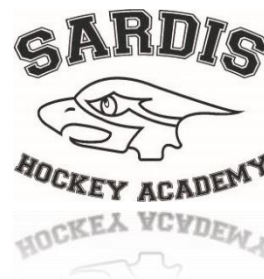
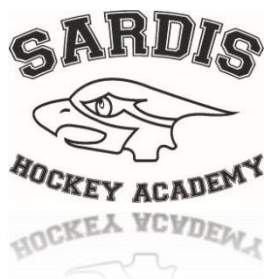
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## Hockey Academy

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### PHE-PHE HOCKEY SKILLS 09-12 / PHE-PHE HOCKEY THEORY 09-12 (2 COURSES TO SELECT, 2 BLOCKS IN TIMETABLE)

**Prerequisite:** Application & Tuition Fee. Open to students in grades 9 through 12.

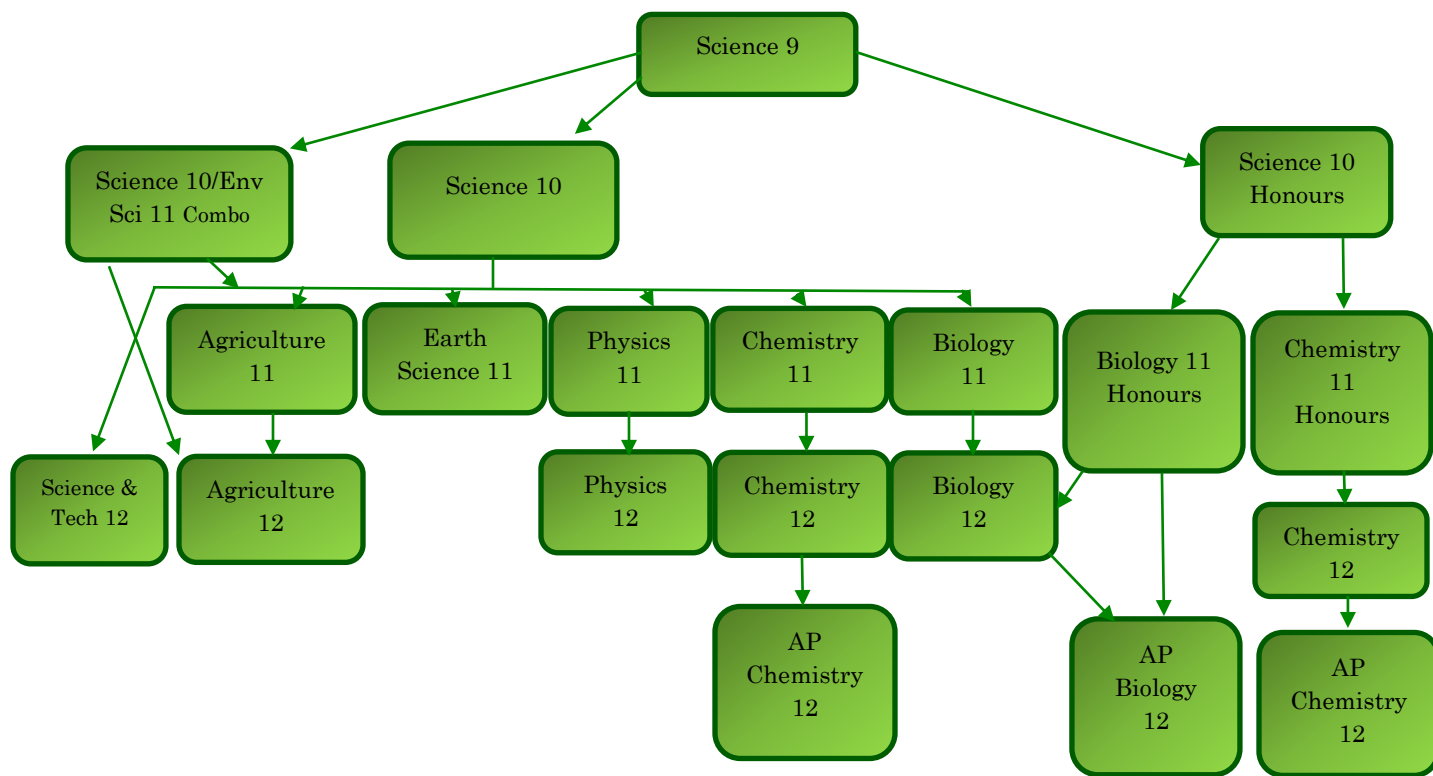


Hockey skills development program is for students who have a passion for hockey. This is a linear program; students will participate in three on-ice and two off-ice development sessions per week from September – June.

- Skill development and hockey specific training (on and off ice) include: individual (stick, possession, passing, power skating, shooting, checking) and team (play, transition, special teams) hockey offensive and defensive skills; agility; balance; cardio; muscular strength and endurance; nutrition; and leadership.
- Academic support and learning style assessment components of the program.
- Viable post-secondary planning: including NCAA Division I & II, CIS, Canadian College.
- Head Coach: Jeff Grenier
- Application for download at **[www.sardissecondary.ca](http://www.sardissecondary.ca)**.
- PHE 10 and/or CLE 10 course requirements may be met within the program.
- Students will demonstrate athletic, academic and personal growth.



# SCIENCE (SC)



## SC-SCIENCE 9

**Prerequisite:** Science 8

**Big Ideas:**

- Cells are derived from cells.
- The electron arrangement of atoms impacts their chemical nature.
- Electric current is the flow of electric charge.
- The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, as matter cycles and energy flows through them.
- Typical activities: lectures, projects, demonstrations, and labs.

## SC-SCIENCE 10

**Prerequisite:** Science 9

- Core topics: Processes of Science, Genetics, Chemical Processes, Energy, Formation of the Universe
- Typical activities: lectures, projects, demonstrations, and labs
- Prepares students for continued studies in one or more of the grade 11 science options

## SC-SCIENCE 10/AGRICULTURE 11 (ENVIRONMENTAL SCIENCE) (DOUBLE BLOCK)

Combo course – 2 concurrent blocks in the timetable. Students will receive credit for both their Science 10 and Science 11 graduation requirements.

**Science 10 Prerequisite:** Science 9 and a willingness to participate in outdoor activities. Students will spend a considerable number of classes at the school farm and should be prepared to walk there and back from the school or arrange their own rides.

- Students will get credit for completing Science 10 because we will learn about DNA/genetics, chemical processes, conservation of energy and Big Bang Theory.
- Since this course is taught with Agriculture 11, there will be a large emphasis on how agricultural practices are affected by the concepts learned in Science 10
- Students must be willing to do hands-on, physical labour at our school farm and in our school greenhouse. Duties will include digging, weeding, planting, harvesting, wheel-barrowing, lawn mowing, pruning, composting, watering, chicken care and more.
- In addition to the outdoor learning component, students will also be expected to complete labs, assignments, quizzes and tests.

**Agriculture 11 Prerequisite:** Willingness to participate in activities outside of the classroom, including physical labour at the school farm and the school greenhouse.

- General introduction to modern agriculture in B.C., concentrating on local agriculture in the Fraser Valley.
- Topics include greenhouse horticulture, sustainable gardening, various agriculture commodities (dairy, poultry, etc), fisheries, forestry, wildlife conservation.

Activities are lectures, labs, project work (hands-on work in the greenhouse, barn and school farm), field trips and guest speakers

## SC-SCIENCE 10 HONOURS

**Prerequisite:** Science 9

- Students will be selected for admission based upon effort and achievement in Science 9.
- Core topics: Processes of Science, Genetics, Chemical Processes, Energy, Formation of the Universe.
- Expanded Honours Topics: Honours students will cover more advanced topics in each of the sections of Science 10 in addition to numerous enrichment activities such as field trips and guest speakers.
- Typical activities: laboratory experiments, lectures, demonstrations, assignments, field trips and guest speakers.
- Evaluation: 60% exams, 20% quizzes, 10% labs and 10% assignments (may vary by teacher).  
Final Exam: 20% of final mark (may vary by teacher).



## SC-SPECIALIZED SCIENCE 12 (SCIENCE AND TECHNOLOGY)

**Prerequisite:** Science 10 or instructor permission

- This course is designed to be practical, hands-on and a fun approach to Science with theory components.
- Range of students varies: those that struggled with Sc. 10, like to build things, and/or wish to increase their knowledge.
- Much of the time will be used to design, build and test self-constructed prototypes so students have to be willing to learn how to use different tools and materials.
- Content: Technology, Space, Transportation & Forensics.



## SC-AGRICULTURE 11 (ENVIRONMENTAL SCIENCE)

**Prerequisite:** Science 10 or teacher recommendation.

- This course is designed to teach concepts around food production using hands-on methods, primarily at the school greenhouse. Students will learn skills in growing food in the SSS Greenhouse (peppers, tomatoes, cucumbers), growing field crops at the SSS Farm, and growing flowers in the SSS Greenhouse. Students will also learn about animal agriculture through field trips and guest speakers. Students can expect roughly 50% theory and 50% doing hands-on activities in the greenhouse or at the farm. Topics will include the sustainability of agriculture, forestry and fisheries in BC.

## SC-AGRICULTURE 12 (ENVIRONMENTAL SCIENCE)

**Prerequisite:** Science 10 or teacher recommendation. Agriculture 11 or summer program must be completed before Agriculture 12.

- This course is an extension of Agriculture 11. Students will be given greater responsibility in managing aspects of the SSS Greenhouse and the SSS Farm. They will be included in crop planning, managing sales of produce, and spend time learning about current global issues in the world of agriculture and food production. As in Agriculture 11, a large component of this class will be learning through hands-on methods that complement the theory learned in class.

## SC-AGRICULTURE 12/SPECIALIZED SCIENCE 12 (DOUBLE BLOCK)

This course will be offered over both morning blocks for the entire semester, allowing students to complete 2 grade 12 courses and a first year UFV Agriculture course (subject to approval). This course is created for students who have a passion for agriculture and who have excelled in Ag 11 or the summer agriculture program. Students will spend a large component of their time at the SSS Farm planning, implementing and managing crops and working on the CSA program offered by the Ag program. Students will do a project that coincides with their passions in agriculture in either: pest management, crop planning, or the business of agriculture.



## SC-APPLIED BIOLOGY (DOUBLE BLOCK- BIOLOGY 11/ENVIRONMENTAL SCIENCE 11)

**Prerequisite:** Science 10

- This is a back-to-back course of Biology 11 and Environmental Science 11, earning 8 graduation credits upon completion. We will explore all of the organisms on the planet, how they interact and how humans impact them changing the world around us. The hands-on component of the course includes dissections, sustainable agriculture and forestry applications such as Integrated Pest Management.
- This course can act as a prerequisite to both Biology 12 and Environmental Studies 12

## SC-BIOLOGY 11 - LIFE SCIENCES

**Prerequisite:** Recommended Science 10 with a 'C' or better.

- Survey course of the 5 Kingdoms found in nature, viruses & bacteria, classification and evolution.
- Lab based course with labs worth 25% of the course.
- Dissection of earthworms, crayfish, frogs, and others.
- Evaluation is based on tests, labs, assignments and a final exam.

## SC-BIOLOGY 11 HONOURS (AP BIOLOGY PART 1)

**Prerequisite:** Science 10 Honours with B average or higher, or Science 10 teacher recommendation.

- Expect demanding course content and to enroll in AP Biology the following year. The content of this course will continue in AP Biology.
- Core Topics: genetic makeup of populations; growth, reproduction, and maintenance of living systems; processing of genetic information, nutrient cycles, origin of living systems in nature.
- Typical activities: Laboratory experiments, lectures, and assignments.
- Evaluation: 60% tests, 20% quizzes, 20% labs (may vary by teacher). Final exam is 30% of the student's final grade.

## SC-BIOLOGY 12 - ANATOMY & PHYSIOLOGY

**Prerequisite:** Biology 11 with a 'C+'

- Topics include Human Anatomy/Physiology (Digestion, Cardiovascular, Respiratory, Urinary, Nervous, & Reproduction), Cytology, Biochemistry, and Protein Synthesis.
- Evaluation is based on tests/quizzes (80%) and assignments (20%) and a final exam.
- Students should have strong reading and comprehension skills.

## SC-AP BIOLOGY 12

**Prerequisite:** Honours Biology 11 with a C+ average or higher.

- Designed to be equivalent to a first year college general biology course.
- Contributes to development of a student's abilities to think clearly and express ideas orally and in writing, with clarity and logic.
- Course is a continuation of Honours Biology 11.
- Content: Feedback mechanisms; growth and homeostasis; cellular and molecular mechanisms; transmission of information between biological systems.
- Typical Activities: Laboratory experiments, lectures, and assignments.
- Evaluation: 40% tests, 20% quizzes, 35% labs. Optional AP Exam costs may be required.



## SC-CHEMISTRY 11

**Prerequisite:** Science 10 and Foundations of Math & Pre-Calculus 10 with a C+ average or higher.

- Recommended that Pre-Calculus 11 be taken concurrently with this course. Course content is demanding.
- Core Topics: Atoms and Molecules; The Mole; Chemical Reactions; Solution Chemistry; Introduction to Organic Chemistry.
- Typical Activities: In-class activities, laboratory experiments, lectures, demonstrations, and assignments.



## SC-CHEMISTRY 11 HONOURS

**Prerequisite:** Science 10 Honours & Foundations of Math and Pre-Calculus 10 with a B average or higher, or Science 10 teacher recommendation.

- Recommended that Pre-Calculus 11 be taken concurrently.
- Expect demanding course content and to enroll in AP Chemistry 12 the following year.
- Core Topics: Atoms and Molecules; The Mole; Chemical Reactions; Solution Chemistry; Introduction to Organic Chemistry.
- Expanded Topics: Quantum Numbers; Molecular Geometry; Chemistry of Transition Metals; Complex Ions.
- Typical Activities: In-class activities, laboratory experiments, lectures, demonstrations, and assignments.

## SC-CHEMISTRY 12

**Prerequisite:** Chemistry 11 with a C+ average or higher.

- The course has a heavy mathematical basis and therefore requires an average of C+ or higher in Pre-Calculus 11.
- Students are also advised to take Pre-Calculus 12 or Foundations of Mathematics 12.
- Topics: Reaction Kinetics; Equilibrium; Solubility of Ionic Substances; Acids, Bases, and Salts; Electrochemistry.
- Typical Activities: In-class activities, laboratory experiments, lectures, demonstrations and assignments.

## SC-AP CHEMISTRY 12

**Prerequisite:** Honours Chemistry 11, Chemistry 12 (may be taken concurrently), and Pre-Calculus 11 with a C+ average or higher.

- Designed to be equivalent to a first-year university general chemistry course.
- Contributes to development of a student's abilities to think clearly & express ideas orally & in writing, with clarity and logic.
- Review Topics: Matter & Measurements; Atoms, Molecules, & Ions; Chemical Formulas and Equations; Electronic Structure; The Periodic Table and the Main Group Metals; Covalent Bonding; Liquids and Solids; Organic Chemistry; Quantum Numbers; Molecular Geometry; Chemistry of Transition Metals; Complex Ions; Nuclear Chemistry.
- Expanded AP Topics: Kinetics & Thermochemistry; Gas Laws & Gaseous Equilibrium; Qualitative Analysis; Non-metals; Molecular Structure; Liquids and Solids.
- Typical Activities: In-class activities, laboratory experiments, lectures, demonstrations, and assignments.
- Optional AP Exam costs \$125.00.

## SC-EARTH SCIENCE 11

**Prerequisite:** Science 10

- Course content: Geology (Rocks, Minerals, Resources, Plate tectonics, Earthquakes & Volcanoes) Meteorology / Oceanography (Atmosphere, Hydrosphere & Climate change) Astronomy (Solar System, Stars & Technology).
- Activities / Assessment: Labs, Projects, Virtual field trips, Interactive activities & presentations

## SC-PHYSICS 11

**Prerequisites:** Science 10 and Foundations Math 10, with a C+ or greater.

- Recommended that Pre-Calculus 11 be taken concurrently with this course. Course content is demanding.
- Course content includes motion graphs, vectors, kinematics, forces, energy, waves, and electric circuits.
- Typical activities include lecture, labs, projects, demonstrations, and experiments.
- Learning projects may include building medieval trebuchets or egg drop survival mission.
- Evaluation is based on homework quizzes, labs, projects, and tests.
- Students need to be proficient in mathematics, especially algebra.

## SC-PHYSICS 12

**Prerequisites:** Physics 11 and Pre-Calculus Math 11, with a C+ or greater.

- Course content includes special relativity, forces, circular motion, energy, momentum, torque, static electricity, magnetism, and induction.
- Course content is demanding so the level of work ethic needs to be high.
- Typical activities include lecture, labs, projects, demonstrations, and experiments.
- Evaluation is based on homework quizzes, labs, projects, and tests.
- Students should be proficient in mathematics and have achieved at least a C+ in Physics 11 & Math 11.



# SOCIAL STUDIES (SS)

## SS-SOCIAL STUDIES 09

**Prerequisite:** Humanities 8 or Social Studies 8

- Social Studies 9 is a required course and will include content from 1750-1919.
- Students will inquire about how emerging ideas and ideologies profoundly influence societies and events; the physical environment influences the nature of political, social, and economic change; and disparities in power alter the balance of relationships between individuals and between societies.

## SS-SOCIAL STUDIES 10

**Prerequisite:** Humanities 9 or Social Studies 9

- Social Studies 10 is a required course for graduation.
- The area of focus is on Canada and the World from 1919 to present.
- Major themes: Global and Regional Conflicts, The development of Political Institutions, World Views and different perspectives, Historical and Contemporary Injustices.

## SS-20<sup>TH</sup> CENTURY WORLD HISTORY

**Prerequisite:** Social Studies 10

- Major global conflicts, concluding World War I, World War II, and the Cold War
- Civil Wars, independence movements, and revolution
- Religious, ethnic, and /or cultural conflicts, including genocide and democide (mass murder) in blood lands of Europe, Africa
- Social and Cultural developments in the 20th Century.
- Genocide in the 20th Century
- This course relies on extensive film studies, both documentary and historical fiction, studying events that have shaped our world today.

## SS-BC FIRST PEOPLES 12

**Prerequisite:** Social Studies 10

- Interconnection of family relationships, language, culture and the land (story, oral tradition, culture, economics, etc.)
- Factors that challenge the identity and views of indigenous people.
- The resilience and survival of indigenous peoples through colonialism.
- Community and economic development.
- Explore relationships and policies with governments across the globe (Indian Act, Aboriginal Acts, Exclusion Acts, Residential Schools and Reconciliation, etc.)
- Treaty relations (historical and contemporary).
- Political Activism - - the resistance of BC First Peoples from colonialism through the early 21st Century.
- Role and significance of media in challenging and supporting the continuity of culture, language, and self-determination.
- Commonalities and differences between traditional and contemporary BC First Peoples governance systems.
- Impact of historical exchanges of ideas, practices, and materials among local BC First Peoples and with non-indigenous peoples.
- Provincial and federal governmental policies and practices that have affected, and continue to affect, BC First Peoples responses to colonialism.



## SS-COMPARATIVE CULTURES 12

**Prerequisite:** Social Studies 10.

- This course will focus on several different cultures and their contributions to the modern world.
- Partly a project-based course, students will examine various cultures globally and *specialize* in one or more of the following areas: Art and Architecture, Literature, Military and Political Studies, Society and Culture, Technology, Philosophy and Religion.
- Areas of study will include Ancient Egypt, Greece, Rome, Africa, India, China, Maya, and the Islamic World.

Note: Students requiring Civilisations Comparées 12 for the French Immersion Program cannot also receive credit for this course.

## SS-HUMAN GEOGRAPHY 12

**Prerequisite:** Social Studies 10

- Explore how humans interact with the world in terms of space and place.
- Study many fields including culture, religions, the economy, urbanization, and politics.
- Look at population sizes and locations and why people settle where they do.

## SS-LAW 12

**Prerequisite:** Social Studies 10

- Origins of Canadian law, our legal system, courts, Charter of Rights and Freedoms, business law and current issues in our society.
- Guest speakers, such as local politicians and lawyers; field trip to Supreme Court as well as Provincial Courthouse.
- Students will be evaluated on quizzes, tests, written work, projects, and participation in class activities.

## SS-PHILOSOPHY 12

**Prerequisite:** Social Studies 10

- An Excellent course for students moving on to college or university as well as for those intending to work.
- Provides tools for investigating meaning and fostering understanding of different ways of thinking.
- Examining questions in philosophy allows people to question their assumptions and better understand their own beliefs. This course will use various resources to examine and evaluate the differing perspectives people have regarding essential questions of truth, reality, and existence.
- Examines the larger questions of life including what is: reality, right & wrong, thought, art, beauty, and more.
- Through lectures, movies and discussions we trace the history of western thought – from Socrates until we reach postmodern thinking of present day; topics cover the nature of right action, knowledge and consciousness.
- Attention given to exploring individual worldviews, underlying reasoning behind them, & the nature & structure of modern society.

## SS-POLITICAL STUDIES 12

**Prerequisite:** Social Studies 10.

- Explore the power relationships between citizens, government, and other bodies in the creation of public policy.
- Throughout the course, students will examine the structure and function of Canadian and First Peoples political institutions; major ideologies and political systems; and our election processes and electoral systems.

## SS-SOCIAL JUSTICE 12

**Prerequisite:** Social Studies 10

- Uses a variety of interpretations and concepts of Social Justice.
- Includes issues such as equality, ethics and social responsibility.
- Other areas of inquiry include connections between Politics, Government, and Religion on past and present Social Justice Issues in Canada and the world.
- This class also looks at issues of poverty, race, and other marginalized groups.



## STUDENT SERVICES (ST)

**INCLUSIVE EDUCATION:** Inclusive Education classes refers to education placement with support, as per individual education needs. The main focus of these classes are functional literacy, numeracy, and life skills.

**INDIGENOUS STUDENT SUPPORT** Indigenous Student Support is available as an additional service to students who self-identify as Indigenous. Members of our Indigenous Student Support Team use C111 as their home base and can be accessed before school, at lunch or after school.

### **ST-ENGLISH LANGUAGE ACQUISITION 9, 10, 11, 12**

This program welcomes any student who has *a language in addition to English in the home*; this includes Canadian citizens, Permanent Residents, temporary residents and International students. Grade 10, 11 and 12 courses earn students 4 credits each towards graduation (up to 12 credits).

- These courses help English as an Additional Language students improve proficiency in the English language, facilitating student success in language-based high school courses.
- Students receive academic support for their subject classes; they practice skills and strategies to increase competency in and command of the English language.
- Students will investigate and express understanding of diverse cultural customs, including those of Canada.
- Students make connections with peers, staff and the larger community; assistance is provided to connect through social events, clubs, sports, community programs as well as volunteering, job search and post-secondary applications.

### **ST-LEARNING ASSISTANCE/STRATEGIES 10, 11 & 12**

**Prerequisite:** Special placement by Inclusive Education Teacher and/or School Based Team (SBT)

- These 4 credit courses can be used toward the total credits necessary for graduation.
- Provides academic subject support.
- Identifies personal learning styles and practices strategies to support Student Learning Profiles.
- Develops and increases self-advocacy skills.

### **ST-LAR 10, 11, 12 (LEARNING ASSISTANCE REMEDIAL)**

**Prerequisite:** Special placement by Inclusive Education Teacher and/or School Based Team (SBT)

- Non-credit support courses.
- Provides remedial instruction in core academic areas (humanities and mathematics).
- Provides homework subject support.
- Develops and increases personal, life, and work-related skills.  
Facilitates appropriate work experience opportunities.



## **TE- TECHNOLOGY EDUCATION**

### **TE-POWER TECHNOLOGY 9**

**Prerequisite:** None

- Learn about principles of flight including lift, thrust, and aerodynamics.
- Build a functional aircraft.
- Discover the inner workings of electric motors.
- Gain experience with hydraulic systems.
- Study four stroke and two stroke engine theory.
- This is a beginner's course that explores many different aspects of powered systems that are used in our daily lives. This course is a good foundation for future enrolment into the automotive department.



### TE-AUTOMOTIVE 10

**Prerequisite:** None

- Learn to disassemble and reassemble an engine.
- Strong focus on four stroke theory and systems.
- Establish knowledge of basic automotive systems (brakes, cooling, etc.).
- This is the beginner's course in the automotive department. Students who complete this course will be able to continue on in the shop to learn more sophisticated concepts and perform repairs on cars.



### TE-AUTOMOTIVE TECHNOLOGY 11

**Prerequisite:** None

- Learn money saving techniques.
- An introduction to automotive maintenance and repair using diagnostic equipment.
- Topics include: engine operation, ignition operation, minor tune up techniques, lubrication, cooling, fuel systems, electrical systems, tires, brakes, and buying a used car.
- Consists of approximately 50% theory and 50% practical. Maintenance and safety are stressed.

### TE-AUTOMOTIVE TECHNOLOGY 12

**Prerequisite:** Automotive Technology 11 with 65% or higher, or with instructor permission.

- Continuation of material learned in Automotive Technology 11, including mechanical problem solving and trouble shooting.
- Repair and theory to include fuel and ignition systems, suspension, steering, drive lines, and transmissions.
- Students are given the opportunity to acquire the knowledge and develop the necessary skills to enable them to repair their own automobiles after graduation.
- Consists of approximately 40% theory and 60% practical.
- Students considering a career in automotive or related fields should take this course in conjunction with Mechanics 12 Drivetrain.

### TE-AUTOMOTIVE TECHNOLOGY 12: BODY (REPAIR AND FINISH)

**Prerequisite:** Grade 12's - AT 11. Grade 11's - with instructor's permission and C+ or higher in AT 11 is strongly recommended.

- An introduction to auto body maintenance and repair.
- Includes fibreglass techniques, sheet metal repair, welding techniques, refinishing materials and application.
- Students given the opportunity to acquire knowledge and begin to develop skills required in the auto body industry.
- Maintenance and safety are stressed.
- Approximately 30% theory and 70% practical. Subjective evaluation determined by Tests and Assignments 40%; Objective evaluation similar to the criterion used by employers to evaluate i.e., Work habits, Quality, Quantity of work & Attitude 60%.

## TE-AUTOMOTIVE TECHNOLOGY 12: DRIVETRAIN

**Prerequisite:** Automotive Technology 11. This course must be taken in conjunction with Automotive Technology 12.

- Learn high-level engine diagnostic repair and diagnostic procedures.
- Discover the world of aftermarket performance parts and the effects they can produce.
- Get in depth knowledge of automatic and standard transmissions.
- Gain experience and knowledge with hybrid and electric vehicle technology.
- This is a high-level course designed for students who wish to gain a better understanding of less understood aspects of automotive technology.



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### Youth Train in Trades: Automotive

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## AUTOMOTIVE LEVEL 1 CERTIFICATE PROGRAM

### YOUTH TRAIN IN TRADES SSS/UFV DUAL CREDIT PROGRAM

**Prerequisite:** Automotive Technology 11

- This course is run in conjunction with the UFV Trades and Tech campus.
- **Students must sign up for two blocks (12A & 12B) in first semester of grade 12.**
- **Graduation requirements should be fulfilled before semester 2. Meet with your counsellor to assist with course planning.**
- Students will be required to complete level 12A and 12B (AND 11) here at Sardis Secondary in the first semester, **and level C-F at UFV in the second semester of their Grade 12 year.**
- Attendance and punctuality are required; only serious students should apply. Once completed, this training provides excellent job opportunities.
- Students receive a certificate of completion from UFV and, if they pass the ITA exam at the end of the course, they will receive a level 1 apprenticeship credit from the ITA.
- **Speak with Mr. Goodman to register**

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### Computer Assisted Drafting and Design (CADD)

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AutoCAD is our software of choice which has established itself as the industry standard CADD program. Our lab has current technology equal to industry and post-secondary educational institutes. SSS Drafting program has placed top of the province with past students placing first or second in B.C. since 1999 in annual Skills Canada CADD Competitions

## TE-INTRODUCTORY DRAFTING & DESIGN

**Prerequisite:** None

- This introductory course is open to all students and is the prerequisite for all subsequent Drafting & Design courses at SSS.
- Designed to provide knowledge of the Core Competencies of the Drafting Technician programs at British Columbia colleges and technical institutions.
- Will prepare students for careers in engineering, architecture, construction, industrial design & graphics.
- Uses current, industry standard computer drafting software "AutoCAD" to produce drawings used in technical communications.
- This course is divided into three general sections: introductory drafting, focusing on tools, techniques and basic graphic design, Mechanical 3D modeling and architectural drafting.
- This course will help develop skills in both manual and CADD based drafting.
- Students have the opportunity to use our full-scale plotter for architectural drawings, our vinyl cutter and heat press for graphic design, and our 3D printer for 3D modeling.
- Evaluation is based on quality and quantity of completed assignments consisting of mostly practical drawings.



## TE-ARCHITECTURE LEVEL 1

**Prerequisite:** Introductory Drafting & Design

- This course further develops skills learned in the introductory course during architectural section.
- During this course students will use the AutoCAD Architecture to create working drawings of a house of their own design.
- This course will appeal to those interested in home building trades and architecture.
- Basic BC Building Code will be covered along with design strategy and technique.
- Students will create a full set of functional plans (working drawings) for a house of their design.
- Assignments and evaluation are based on manually drafted & CADD generated drawings: designing a full-size house focusing on floor plan layout, construction techniques and section views.
- Evaluation is based on quality and quantity of completed assignments consisting of mostly practical drawings.

## TE-ARCHITECTURE LEVEL 2

**Prerequisite:** Architecture Level 1

- This course will appeal to those interested in further increasing their knowledge of home building and architectural fields.
- Students will learn to use Autodesk REVIT as they design and construct a house of their own design before rendering 3D images to showcase the home's design features.
- Assignments and evaluation are based on manually drafted & CADD generated drawings.
- Evaluation is based on quality and quantity of completed assignments consisting of mostly practical drawings.

## TE-MECHANICAL ENGINEERING LEVEL 1

**Prerequisite:** Introductory Drafting & Design

- This course will appeal to those interested in going into Engineering or a large number of other Mechanical Design careers.
- Students will increase their knowledge of 3D modeling in both CAD and manual drafting.
- Introduction to industry standard "Autodesk Inventor" will set the sky as the limit to what can be created and produced using our 3D printer.
- Students will be introduced to precision measurement tools such as Micrometers and Vernier Calipers as they produce highly accurate drawings of complex parts.
- Evaluation is based on quality & quantity of completed assignments.

## TE-MECHANICAL ENGINEERING LEVEL 2

**Prerequisite:** Mechanical Design & Engineering Level 1

- This course will appeal to those interested in continuing to gain knowledge in Engineering and a large number of other Mechanical Design careers before applying to post secondary courses.
- Students will increase their knowledge of 3D modeling and design in both CAD(Autodesk Inventor), manual drafting and practical building.
- Students will work through an intensive design process providing them with a set of complete working drawings and a 3D printed scale model of a personal design.
- Evaluation is based on quality and quantity of completed assignments.

## TE-INDUSTRIAL DESIGN, ENGINEERING & CODING

**Prerequisite:** FMP 10 or Math 10 with C+ or higher

- Open to grade 11 & 12 students
- This course will appeal to those interested in Industrial Design (product design), Engineering, or CAM (Computer-Aided Manufacturing).
- Students will learn relevant, real-world skills necessary to become Designer or Engineer.
- Students will complete the design cycle on a number of projects, from conception to finished product.
- Students will sketch, draw & model in 2D and 3D.
- Students will utilize state of the art design software to design products, convert it to machine code, and use 3D printers, lasers, and CNC equipment to bring them to life.
- Students will learn how to design with, share with, and market to potential end users of their products.

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## Metal and Welding

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### TE-INTRODUCTORY METAL

**Prerequisite:** None – this course is open to all students.

- A hands-on entry-level course open to and recommended for all students.
- Introductory Metal completes the necessary pre-requisites of Train in Welding.
- Designed to introduce students to the numerous career opportunities in the various metalworking fields.
- Covers basics: machine/welding shop safety, machining, sheet metal, foundry, forge, oxy-acetylene welding & cutting.
- Students develop their skills on teacher selected skill builders finally selecting and building their own personal projects.
- Costs: Only for materials beyond those required to meet the learning outcomes for the course.
- Students will earn the Metal 10 course credit.





## TE-METAL 11

**Prerequisite:** Intro Metal

- Metal 11 is a continuation of the Intro Metal course which expands, and continues the skills learned in Intro Metal with greater emphasis on Arc welding, including GMAW and Plasma Arc Cutting and accuracy of machining.
- Students are required to complete certain mandatory skill builders; however, more time is available for personal projects and skill builder modification.
- Metal 11 completes the necessary pre-requisites of Train in Trades Welding.
- Costs: Only for materials beyond those required to meet the learning outcomes for the course.

## TE-METAL 12

**Prerequisite:** Metal 11

- A partially self-directed metalwork manufacturing course for students interested in post-secondary or direct employment in the many metal related fields.
- A greater emphasis on employability and problem-solving skills and technology required for a changing work force.
- Incorporation of non-metal-related material in metal projects.
- Students may concentrate on welding, metal fabrication, sheet metal, machining, or a combination of these skills.
- Costs: Only for materials beyond those required for the course.

## TE-MACHINING AND WELDING 12

**Prerequisite:** Metal 12

- Primarily a self-directed course for students entering a machining, fabricating, or welding career, or post-secondary institutions for further study.
- Emphasis is placed on the enhancement of skills of welding and machining.
- Students will help with equipment maintenance and manufacturing in a simulated workplace environment.
- Costs: Only for materials beyond those required to meet the learning outcomes for the course.





### **WELDING FOUNDATION CERTIFICATE PROGRAM**

#### **YOUTH TRAIN IN TRADES SSS/UFV DUAL CREDIT PROGRAM**

**Prerequisite:** Intro Metal

- In partnership with UFV Trades & Technology, Sardis is offering the British Columbia Welding Foundations ticket.
- Students will need a minimum 4 periods of Train in Trades Welding at Sardis to complete the first 16 credits of this program.
- Students will attend UFV full time in their second semester of grade 12 to earn the last 16 credits of this 32-credit program.
- The program is open to all students, but only those who complete all of the required competencies will be awarded seats into UFV in the student's final semester of grade 12.
- Students successfully completing this program will be eligible to receive the British Columbia Welding Foundations certification.
- **Students who wish to enter this program should contact Mr. Purych for an application form and interview.**

### **TE-TRAIN IN WELDING A**

**Prerequisite or Corequisite:** Intro Metal

- Students continue their Oxy-Acetylene welding further developing their skills in the Flat, Horizontal and Vertical positions on steel sheet metal.
- From O/A Welding students move into Oxy-Acetylene Braze and Braze Welding completing a Horizontal Lap, Tee, and Corner, a Flat groove weld, and finally simulating a grey cast iron crack repair with Braze Welding.
- The second half of Welding A's course introduces the students to SMAW (Stick) Welding. The students use the E6010 Fast Freeze, the E7018 Low Hydrogen and the E7024 Fast Fill Rods in the #1, Flat, position on mild steel plate.
- The students are expected to prepare for and go to UFV to write the P1 Module, Introduction and Program Orientation, Exam.

### **TE-TRAIN IN WELDING B**

**Prerequisite:** Completion of all Practical Welds of Train in Welding A

- Students continue their Shielded Metal Arc Welding (Stick) welding, developing their abilities welding in the #2, Horizontal and #3, Vertical positions doing Fillet and Surfacing welds on mild steel plate.
- The students are expected to prepare for and go to UFV to write the P2 Module, Oxy-Fuel Gas Cutting, and P3 Oxy-Fuel Gas Welding Exams.

### **TE-TRAIN IN WELDING C**

**Prerequisite:** Completion of all Practical Welds of Train in Welding B

- Students complete their Shielded Metal Arc Welding (Stick) fillet welds in Welding C.
- Students will complete their #4, Overhead fillet welds on plate and move to a 2F and 5F Pipe to plate weld.
- From there the students will test and extend their SMAW skills, stick welding on sheet metal in the Horizontal and Vertical Down positions.
- In addition to their continued use of the E6010 and E7018 rods, Train in Welding C sees the introduction of the E6013, Farmer's Rod, and the E309, Stainless to Mild Steel, welding rods.
- The students are expected to prepare for and go to UFV to write the P4 Module, Shielded Metal Arc Welding I, and P5 Module, Arc Cutting and Gouging, Welding Exams.

## TE-TRAIN IN WELDING D

**Prerequisite:** Completion of all Practical Welds of Train in Welding C

- Train in Welding D introduces:
- Air Carbon Arc Gouging to bevel plate and remove weld faults
- The oxy-acetylene cutting exam
- Gas Metal Arc Welding (MIG) Short Circuit Transfer on plate and sheet in the flat, horizontal, and vertical up and vertical down positions.
- Gas Metal Arc Welding (MIG) Spray Transfer on plate in the flat and horizontal positions
- Gas Tungsten Arc Welding (TIG) using touch and high frequency starts moving thru flat and horizontal sheet metal lap, tee, and corners.

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## Woodwork & Residential Construction

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## TE-INTRODUCTORY WOODWORK

**Prerequisite:** None

- Open to all grade levels
- This is an introductory course into the field of woodworking.
- Students will gain a foundational knowledge of working with hand and powered woodworking tools to complete a number of assigned projects.
- Grades will be based on quality and quantity of work accomplished, theory work, and daily work habits.

Costs: A projects fee will be assessed to cover the cost of materials that students will take home (in the form of completed projects).

## TE-WOODWORK 11

**Prerequisite:** Introductory Woodwork

- Students will expand their woodworking skills and knowledge through the construction of more complex projects and joinery.
- Students will have opportunities to construct 3 or more projects and will use most of the shop equipment in the process.
- Grades will be based on quality and quantity of work accomplished, theory work, and daily work habits.
- Costs: A projects fee will be assessed to cover the cost of materials that students will take home (in the form of completed projects).

## TE-WOODWORK 12A

**Prerequisite:** Woodwork 11

- This intermediate level course will introduce students to cabinet-making and the production of pictorial and written plans.
- Emphasis will be placed on quality and safety.
- After completing a required project, students will design and construct their own project.
- Grades will be based on quality and quantity of work accomplished, theory work, and daily work habits.
- Costs: A projects fee will be assessed to cover the cost of materials that students will take home (in the form of completed projects).

## TE-WOODWORK 12B: FURNITURE & CABINETRY

**Prerequisite:** Woodwork 12 & teacher approval

- An advanced wood manufacturing course that builds on the skills and knowledge learned in previous Woodwork courses.
- Allows students to hone their skills in cabinet and furniture design and production
- Gives a good base from which a student may go into post-secondary trades.
- Projects are self-directed and should be reasonably difficult, eg. dining room table, large dresser, buffet and hutch, computer desk, etc.
- Graded on well-established criteria of craftsmanship.
- Course work is largely self-directed, so students must be self-motivated in order to succeed.  
Cost of materials is the responsibility of the student, and will vary by project.

## TE-HOME RENOVATION & REPAIR 11

**Prerequisite:** Introductory Woodwork

- Open to Grade 10-12 students
- Anyone that is interested in being a homeowner one day will benefit from this course, as well as those interested in the home construction or repair trades.
- Students will learn about the tools, equipment, materials, and methods used in the residential renovation and repair industry.
- Students will learn basic framing, plumbing, electrical, insulation & vapour barrier, drywall, taping & mudding, painting, finish carpentry, and tiling.
- Be the Handyperson in your home!
- Grades will be based on quality and quantity of work accomplished, theory work, and daily work habits.



# DISTRICT PROGRAMS



CHILLIWACK SCHOOL DISTRICT

## One Campus

### Rationale:

The Chilliwack School District strives to provide equitable and accessible education for all students. To support this, we have created "One Campus", a new choice option for our district. One Campus is the sharing of unique, secondary programming across the district.

### What?

With coordinated timetables across the district, One Campus provides students the opportunity to cross-enroll (move between) existing secondary campuses to pursue the programming that most engages them, or best prepares them for opportunities beyond graduation.

### How?

A daily shuttle between CSS/GWG/KSS/SSS will be offered at the lunch hour. Students enrolled in a course or program at another school will attend that other school for half the day (every day for semester courses, every second day for linear courses). If a course or program is one block in duration, students will take other courses (unique or standard) to fill the rest of their time at that site before transferring. As is standard with choice programs, students beginning or ending their day at their non-homeschool will be responsible for their own transportation. Courtesy bussing may be available in some situations.

NOTE: Opportunities are available as space permits.

### Sample Timetable:

<b>Student Name:</b> Suzie Student		<b>Student ID:</b> 12345		<b>YOG 2023</b>	
<b>Homeroom:</b> Ms. Teacher		<b>Home Campus:</b> CSS			
Course Code	Description	Campus/Room	Time	Teacher	Credits
XYZ-123	Architecture	SSS/205	8:30am – 10:00am	Mr. Crafty	4.0
123-XYZ	Mathematics	SSS/110	10:05am – 11:35am	Ms. Math	4.0
<b>Lunch</b>					
ABC-123	Intro Guitar	CSS/Band Room	12:30pm – 1:45pm	Mr. Music	4.0
123-ABC	Literature Studies	CSS/302	1:50pm – 3:00pm	Ms. Bronte	4.0

### Learn More:

If you are interested in this option, please see your school counselor.

- \* CSS – Chilliwack Secondary School
- \* GWG – GW Graham Secondary
- \* KSS – Kwiyeqel Secondary
- \* SSS – Sardis Secondary



## Work Experience:

Elective **Work Experience** courses (WEX12A and WEX12B) are available to students in grades 11 and 12. Students interested in taking this course are required to complete a career programs application package. WEX12 courses are "out of timetable", which means that students must be able to "make time" to complete the course requirements, often outside of school hours.

WEX12A and WEX12B each require students to complete **100 hours** of community-based and or Paid Work Experience placements, as well as several written forms and assignments. Students that complete a WEX12 course can earn up to 8 credits towards graduation.

Completion of WEX12A is a pre-requisite to enroll in WEX12B.

More information can be found on the Career Programs Website:

<https://learningservices.sd33.bc.ca/wex12a-and-wex12b>

**\*Contact your school WEX Facilitator or School counsellor for more information.\***

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**EXPLORE**

TRADES SKILLS

Explore Trades Sampler is a program designed to give students job readiness skills that will lead to employment after high school and/or access to post secondary programming. Students explore a variety of trades such as; Welding, Construction, Plumbing & Piping, and Heavy-Duty Mechanics. Students work on a variety of activities to build their skill set, including Workplace training certificates, First Aid and Forklift.

Students will also get to experience a portion of the program at the University of the Fraser Valley, while still being enrolled in a Secondary school.

This unique program allows students to explore their options before committing to a single trade. Students also gain valuable on the job training as part of the Work Experience component of the course.

The **Trades Sampler** is offered at both G.W. Graham and Kwiyeqel Secondary Schools

**Please Note: Out of catchment students in these programs will be limited to spaces available.  
Contact your school Counsellor for more information.**





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## TRAIN

IN TRADES

The **Youth Train in Trades** program allows secondary school students to take technical training that gives them Dual Credit (up to 32 credits) for high school courses and trades training programs. This is an innovative partnership between the University of the Fraser Valley and School District No. 33. Grade 11 students can apply to pursue an apprenticeship career path to obtain the first level of technical training during their Grade 12 school year.

The eligibility criteria include:

- Completed career programs application form
- Specific trades course pre-requisites (program specific)
- To be eligible to move to the UFV portion students must have completed their English 12 and Math 11 courses prior to Semester 2 of the Grade 12 year.

**Welding Foundation** – Sardis Secondary

**Automotive Service Technician** – Sardis Secondary & Chilliwack Secondary

**Hairdressing** – Chilliwack Secondary

**Fees:** Tuition costs are covered by the school district. Ancillary fees, books, clothing & PPE range from \$1000 – 2400, depending on the length of the program and are the responsibility of the student.

**\*\* Please Note: Out of catchment students in these programs will be limited to spaces available. \*\***  
Contact your school Counsellor for more information.

### Regional Career Programs:

The school district also partners with UFV to offer additional **Dual Credit Career Programs**. These programs are offered during a student's entire Grade 12 year. Students must meet all their graduation requirements prior to enrolling in an RCP program. RCP is a competitive application process open to all Grade 11 school district students. Limited seats are available.

- |                                    |  |
|------------------------------------|--|
| • Architectural Drafting           | • Electronics Technician – Common Core |
| • Auto Collision Repair & Refinish | • Heavy Mechanical Foundation          |
| • Automotive Service Technician    | • Joinery                              |
| • Carpentry                        | • Plumbing & Piping                    |
| • Construction Electrician         | • Professional Cook                    |
|                                    | • Welding Foundation                   |

**Fees:** Tuition costs are covered by the school district. Ancillary fees, books, clothing & PPE range from \$1000 – 2400, depending on the length of the program and are the responsibility of the student.

Applications and more information can be found on the Career Programs Website :

<https://learningservices.sd33.bc.ca/sd33-youth-train-programs>

Contact: Heather Elliott – District Coordinator of Career Transitions

[Heather\\_Elliott@sd33.bc.ca](mailto:Heather_Elliott@sd33.bc.ca) or 604-798-0347



Get on the job training as a youth apprentice.

Is this the program for you? Do you have a job?

Any student currently employed with a qualified trades person is eligible for the **Youth Work in Trades** program. Students can earn up to 16 credits towards graduation if they are enrolled in the **Youth Work in Trades** program.

The eligibility criteria Include:

- Must be 14 years of age or older.
- Working in a paid position.
- Working under the guidance of a qualified Tradesperson.
- Enrolled in an SD#33 Secondary School.
- Completion of the Career programs application package.

With the completion of 900 hours worked and a C+ average in all Grade 12 courses, students may also qualify for a \$1000 award.

Application Forms are available online at:

<http://learningservices.sd33.bc.ca/forms-resources>

Contact: Heather Elliott – District Coordinator of Career Transitions

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Check out the list of eligible trades at:

<https://www.itabc.ca/discover-apprenticeship-programs/search-programs>

