

# COURSE BOOKLET & PLANNING GUIDE



**2024-2025**  
**G.W. GRAHAM**  
**SECONDARY SCHOOL**

GW Graham is a creative community of learners challenging each other to CARE, INQUIRE, DISCOVER, EXPLORE, and ACHIEVE.  
We are dedicated to developing compassionate citizens of the world.





# *“Planning for Your Future”*

The courses offered at GW Graham Secondary follow guidelines set out by the Ministry of Education and the Chilliwack School Board. The graduation program is comprised of required courses and elective options totaling 80 credits (from Grade 10 through Grade 12), and completion of three provincial assessments. When planning courses selections, students should ensure their requirements for graduation are met through the process.

Selecting elective courses is an important process and should be carried out in consultation with your parents/guardians. Become familiar with the course offerings and plan ahead. If you have questions, please speak to a school counsellor.

NOTE: All elective courses are subject to sufficient enrollment. Courses will only run if there are sufficient students requesting the course.





# TABLE OF CONTENTS

Student Services .....	1
Courses Offered .....	7
Specialty Programs and Focused Learning Opportunities .....	13
Advanced Placement Courses .....	14
Grizzlies Baseball .....	16
Canine Foundations .....	17
GrahamX .....	18
Outdoor Education .....	19
Production Workshop .....	20
Specialized Foods and Culinary Program .....	21
Trades Sampler .....	22
Course Descriptions .....	24
Business Education .....	25
Computer Education .....	27
English Language Arts .....	28
Home Economics .....	32
Human Services .....	35
Mathematics .....	36
Modern Languages .....	43
Physical and Health Education .....	45
Sciences .....	49
Social Studies .....	54
Technology Education .....	58
Visual and Performing Arts .....	61
Fine Arts .....	61
Music .....	65
Theatre .....	67
SD 33 Learning Opportunities .....	71

GW Graham Secondary School acknowledges that we live, work, and play on the  
unceded traditional territory of the Pilalt, the Ts'elxwéyeqw, and the Sema:th tribes.







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There are a number of support/resource/programs offered within GW Graham Secondary and through the Chilliwack School District office. Descriptions for some of these specialized services are listed on the following pages. To find out more, contact your school counsellor or administrator.

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## COUNSELLING SERVICES

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School counsellors provide direct and indirect support for students in three areas: personal matters in a confidential setting, academic advice (course selection, graduation, program planning etc.), and career planning (post-secondary). Counsellors will provide appropriate referrals to other in-school, in-district support services, and/or outside (non-school) agencies. Students are assigned to counsellors alphabetically by last name. Please email your counsellor to make an appointment:

A - F	Mr. Price	<a href="mailto:thomas_price@sd33.bc.ca">thomas_price@sd33.bc.ca</a>
G - M	Mr. Pickering	<a href="mailto:chad_pickering@sd33.bc.ca">chad_pickering@sd33.bc.ca</a>
N - Z	Ms. Daly	<a href="mailto:alexandra_daly@sd33.bc.ca">alexandra_daly@sd33.bc.ca</a>

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## ENGLISH LANGUAGE LEARNING

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ELL is a placement-based program that offers support to students who have identified as having a first language other than English. Its purpose is to assist students with developing skills in oral and written English so they may function successfully in the school, community, and within a regular school program.

ELL/ESD Support Teacher	Mr. Simington	<a href="mailto:david_simington@sd33.bc.ca">david_simington@sd33.bc.ca</a>
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## INDIGENOUS STUDENT SERVICES

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Indigenous ancestry is determined on a voluntary basis through self-identification. This includes First Nations (Status or Non-Status), Metis, or Inuit ancestry. Once Indigenous ancestry is declared, students can access several additional supports. There are many services provided for our students that go above and beyond regular supports including, but not limited to, advocating for your student by assisting with academic support, push-in support in the classroom, supporting teachers who are teaching your student, home-school/band communication, and monitoring academic progress and attendance. We can also provide guidance on Graduation/Scholarship/Bursary/Post-Secondary and offer some financial assistance when costs are too burdensome (when applicable). We offer information for cultural opportunities and other special events and fieldtrips that are in available to us. We can also present opportunities in the community and help forge connections for employment. We are located upstairs, beside the elevator, in room B235.

*\*Secondary students who declare Indigenous Ancestry need only fill out the form one time for the duration of schooling at GW Graham Secondary*

Indigenous Grad Coach	Ms. Hancock	<a href="mailto:kim_hancock@sd33.bc.ca">kim_hancock@sd33.bc.ca</a>
Indigenous Support Education Worker	Ms. Baldwin	<a href="mailto:ramona_baldwin@sd33.bc.ca">ramona_baldwin@sd33.bc.ca</a>
Indigenous Support Education Worker	Mr. Muth	<a href="mailto:andrew_muth@sd33.bc.ca">andrew_muth@sd33.bc.ca</a>

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## RESOURCE PROGRAM

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The Resource Program provides a safe and inclusive environment and supports students with diverse needs and exceptionalities, identified with Ministry of Education Low Incidence Designations A-G (determined by medical professionals). Having a Ministry Designation qualifies students for additional supports and specialized learning adaptations or modifications. The resource program consists of three teachers (RTs) and a team of Education Assistants (EAs) who provide support to students with all of their school needs. Our goal is to make the students' experiences at GW Graham both positive and memorable. We provide the support required to successfully access the curriculum.

Mr. Brady Cameron	<a href="mailto:brady_cameron@sd33.bc.ca">brady_cameron@sd33.bc.ca</a>
Mr. Dave Ostlund	<a href="mailto:david_ostlund@sd33.bc.ca">david_ostlund@sd33.bc.ca</a>
Ms. Ashley Arden	<a href="mailto:ashley_arden@sd33.bc.ca">ashley_arden@sd33.bc.ca</a>

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## CAREER AND LIFE EDUCATION

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Students are automatically scheduled in Career Education in Grade 9, Career Life Education in Grade 10, and Career Life Connections/Capstone in Grades 11 and 12. The purpose of supporting students with understanding their personal strengths and connecting them to opportunities beyond high school is extremely valued at GW Graham Secondary School. Career Education includes various guest presentations, career fairs, course planning sessions with counsellors, and other career related learning experiences.

Mr. Sanders

[daniel\\_sanders@sd33.bc.ca](mailto:daniel_sanders@sd33.bc.ca)

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## CAREER CENTRE

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The Career Centre provides a valuable resource in assisting students in all aspects of their career exploration, post-secondary options, financial awards/processes, and transitions into the work force. If you have questions about the following topics or need assistance, our preference is for students to please reach out to us on TEAMS or in person. Stop by and visit room C239.

- Scholarships and Bursaries – Applications, Information, and Workshops
- Resumes, Cover Letters, Interview Coaching, Job Searching (Employment Marketing Skills)
- Career Based Enrichment Opportunities (Guest Speakers, Community Partners, Conferences, and Workshops)
- Post-Secondary Research and Application Support (University/College/Institute/Trades Training).
- Students are encouraged to check with post-secondary institutions on a regular basis regarding entrance requirements, application deadlines, and financial opportunities as changes occur regularly.
- Navigating Important Websites, including *myBlueprint*, *EducationPlannerBC*, *MyEducation BC*, MS Teams, etc.
- Transcript Service is used to access and send transcripts when needed:  
[www2.gov.bc.ca/gov/content/education-training/k-12/support/transcripts-and-certificates/order-a-high-school-transcript-or-certificate](http://www2.gov.bc.ca/gov/content/education-training/k-12/support/transcripts-and-certificates/order-a-high-school-transcript-or-certificate).

Mrs. Bawtinheimer | Gr 10 Interviews/Career Planning-Trades Portfolio | [sheri\\_bawtinheimer@sd33.bc.ca](mailto:sheri_bawtinheimer@sd33.bc.ca)

Mrs. Kim Willock | Scholarships, Bursaries, Career Planning | [kim\\_willock@sd33.bc.ca](mailto:kim_willock@sd33.bc.ca)

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## LIBRARY

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The GW Graham Library is a great learning resource centre for our students. The centre contains access to several encyclopedia sets, e-books, reference books, access to *Ebschost*, *World Book* encyclopedia, *Britannica* online – which also includes *Compton's Encyclopedia*, and many other databases from any of the 30 computers located in the library, in each classroom, and/or from home! Students can also choose from many excellent novels in our ever-expanding fiction section.

The library is open Monday through Friday, from 8:00 a.m. to 3:30 p.m. At the beginning of each year, a call goes out for student volunteers to join the Library Club. Student Librarians help during lunch break to check out books for students, put away books, and process new books. Time worked in the library can be used towards graduation Work Experience requirements. The Library is also a safe place to come and read, do homework, research, and/or borrow a good book for pleasure reading.

Ms. MacConnell

[eilidh\\_macconnell@sd33.bc.ca](mailto:eilidh_macconnell@sd33.bc.ca)

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## WORK EXPERIENCE (AND VOLUNTEER CENTER)

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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 outside of the 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. Want more information? Contact one of our school WEX Coordinators:

Ms. MacConnell

[eilidh\\_macconnell@sd33.bc.ca](mailto:eilidh_macconnell@sd33.bc.ca)

Mrs. LaFreniere

[carlene\\_lafreniere@sd33.bc.ca](mailto:carlene_lafreniere@sd33.bc.ca)



## EXTERNAL COURSE CREDITS

Students are able to earn credit for accomplishments outside of the regular classroom setting. Examples include ICBC approved Driver Education course, Bronze Cross, Royal Conservatory of Music, Girl Guides, and external Sport Credential Program courses, and many more! For a full list of creditable activities and the specific requirements necessary to be granted external credits, please refer to the Ministry website: [http://www.bced.gov.bc.ca/graduation/ext\\_credentials/ext\\_cred.php](http://www.bced.gov.bc.ca/graduation/ext_credentials/ext_cred.php) or talk to your counsellor.

## CONCURRENT UNIVERSITY STUDIES AT UFV

### Degree Granting Courses:

UFV provides an opportunity to take courses at UFV while completing Grade 12 at GW Graham. Applications are accepted in Semester 2 a student's Grade 11 year. Some of the reasons a student might consider concurrent studies:

- Complete Grade 12 and a 1<sup>st</sup> year academic course at UFV at the same time.
- Complete Grade 12 and a trade certificate at UFV at the same time.
- Jump start on post-secondary studies and get dual credits at both GWG and UFV.

For information about the partnership with UFV, please see the following website link:

<https://www.ufv.ca/admissions/high-school-grades-and-transcripts/concurrent-studies/>

For more information, please speak to your school counsellor.



**G. W. Graham**



**Chilliwack  
School District**





# GRADUATION REQUIREMENTS

## BC Certificate of Graduation (Dogwood) / 2023 Graduation Requirement

80 credits (minimum) over Grade 10, 11, and 12 to Graduate

Student must have:

- **52 credits** (minimum) from required courses
  - See list of breakdowns below
- **28 credits** (minimum) from elective courses
- Of the 80 credits required to graduate, **at least 4 credits must have an Indigenous focus.**
  - At GW Graham Secondary, students meet this requirement through English First Peoples 11\*.
  - Student coming from another school will have other course options to meet this requirement.
- **Three (3) ministry designed assessments:** Numeracy 10, Literacy 10, and Literacy 12.

REQUIRED COURSES	
Subject Area	Credits
Language Arts 10	4
Language Arts 11*	4
Language Arts 12	4
Mathematics 10	4
Mathematics 11 or 12	4
Science 10	4
Science 11 or 12	4
Social Studies 10	4
Social Studies 11 or 12	4
Physical & Health Education 10	4
Fine Arts and/or Applied Skill 10, 11, or 12	4
Career Life Education 10	4
Career Life Connections 11 and 12	4
Total Credits (Required Courses):	<b>52</b>
ELECTIVE COURSES	
Grades 10-12 - Electives	24
Grade 12 - Elective	4
Total Credits (Elective Courses):	<b>28</b>
Total Credits (Graduation):	<b>80</b>

- Career Life Connections requires students to complete 30 hours of paid employment or volunteer work in Grade 12
- Numerous post-secondary institutions require a second language at the Grade 11 level. If you are unsure if you will need this to fulfill your plans, please speak with a counsellor or career advisor to check post-secondary entrance requirements.
- Students who are planning on enrolling at a post-secondary institution must check their entrance requirements for their desired program. Universities have different requirements, so please be careful to check the institution you want to attend.

For more information about Graduation Requirements, please visit the Ministry of Education website: <https://www2.gov.bc.ca/gov/content/education-training/k-12/administration/legislation-policy/public-schools/graduation-requirements> or speak with your school counsellor.





## COURSES OFFERED



# COURSES OFFERED TO GW GRAHAM STUDENTS

## GRADE 9 STUDENTS CHOOSE

- ☐ Humanities 9 or Humanities 9 Fine Arts or GrahamX 9
- ☐ Math 9 or Math 9 Daily
- ☐ Science 9 or GrahamX 9
- ☐ Physical & Health Education 9 or PHE 9 Leadership or a Sport Specific PHE or GrahamX 9
- ☐ Three (3) Electives courses

## GRADE 10 STUDENTS CHOOSE

- ☐ English 10 option
- ☐ Math 10 option
- ☐ Science 10
- ☐ Social Studies 10 option
- ☐ Physical and Health Education 10 option
- ☐ Three (3) Electives courses

## GRADE 11 STUDENTS CHOOSE

- ☐ English 11 option
- ☐ Math 11 option
- ☐ Science 11 option
- ☐ Social Studies 11 or 12 option
- ☐ Four (4) Elective courses

## GRADE 12 STUDENTS CHOOSE

- ☐ English 12
- ☐ Three (3) Grade 12 Elective options
- ☐ Four (4) other Elective courses

See the next page for a full list of course options available.

## THINGS TO NOTE

- ✓ First priority for a course will go to students in the corresponding grade.
- ✓ Course prerequisites are important. Some prerequisites must be met before a student can enroll in a course.
- ✓ Graduation requirements differ from post-secondary entrance requirements.
- ✓ It's important for students to check post-secondary requirements and use this information to plan their education pathway.
- ✓ Speak with a school counsellor if you have any questions about course offerings and/or require assistance planning your education pathway.



# GW Graham Course List for Grades 9 & 10

(sorted Alphabetically)

Grade 9	Grade 10
Art 9	Art Studio 10 – Intro
Choir 9	Ceramics & Sculpture 10 – Intro
Concert Band 9	Choir 10
French 1	Computer Studies 10
Humanities 9	Concert Band 10
Humanities 9 – Fine Arts	Creative Writing + Composition 10
Humanities 9 – GrahamX	Dance Foundations 10
Jazz Band (Jr) 9 – OT	Drama 10 – Intro
Leadership 9	Electronics and Robotics 10
Mathematics 9	Engineering & Architecture – Entry Level
Mathematics 9 – Daily	Entrepreneurship & Marketing 10
<del>Orchestra 9</del>	Fashion & Design 10 – Intro
Physical & Health Education 9	Film Production 10 – Intro
PHE – Baseball 9	Food Studies 10 – Intermediate
PHE – Basketball 9	Food Studies 10 – Intro
PHE – Football 9	Foundations of Math & Pre-Calculus 10
PHE – GrahamX	Foundations of Math & Pre-Calculus 10 – Daily
PHE – Leadership 9	French 2
PHE – Rugby 9	<del>Guitar 10 – Intermediate</del>
PHE – Soccer 9	Guitar 10 – Intro
PHE – Volleyball 9	Halq'éméylem 10
Science 9	Humanities 10
Science 9 – GrahamX	Humanities 10 – Fine Arts
Spanish 1	Jazz Band (Jr) 10 – OT
	Jazz Band (Sr) 10
	Leadership 10
	Literary Studies + Composition 10 – GrahamX
	Literary Studies & Composition 10
	Media Arts 10
	Media Design (Animation) 10
	Metalwork 10
	Musical Theatre 10 – OT
	New Media + Composition 10
	<del>Orchestra 10</del>
	<del>Pep Band 10 – OT</del>
	Physical & Health Education 10
	PHE – Baseball 10
	PHE – Basketball 10
	PHE – Football 10
	PHE – GrahamX 10
	PHE – Leadership 10
	PHE – Rugby 10
	PHE – Soccer 10
	PHE – Volleyball 10
	Science 10
	Social Studies 10
	Social Studies 10 – GrahamX
	Spanish 2
	Strength and Conditioning 10
	Strength and Conditioning 10 – OT
	Television Production 10 – OT
	Woodwork 10
	Workplace Math 10
	Yearbook 10 – OT

OT = Out of Timetable (course will be offered before or after school)

# GW Graham Course List for Grade 11

(sorted Alphabetically)

Accounting 11	Halq'éméylem 11
Active Living 11	Instrumental Survey 11
Active Living – Baseball 11	Jazz Band (Jr) 11 – OT
Active Living – Basketball 11	Jazz Band (Sr) 11
Active Living – Football 11	<del>Languages for Travel 11</del>
Active Living – Leadership 11	Leadership 11
Active Living – Rugby 11	Life Sciences 11
Active Living – Soccer 11	Life Sciences 11 Honours
Active Living – Volleyball 11	Marketing & Promotion 11
AP Capstone Seminar 11	Media Arts 11
AP English Language and Composition	Media Design (Animation) 11
Architectural Drafting L2	Metalwork 11
Art Studio – Intermediate 11	Music Production & Recording Arts 11
Ceramics and Sculpture 11 – Intermediate	Musical Theatre 11 – OT
Chemistry 11	<del>Orchestra 11</del>
Chemistry 11 Honours	Outdoor Education 11 – OT
Choir 11	Peer Tutoring 11
Computer Programming 11	<del>Pep Band 11 – OT</del>
Concert Band 11	Photography 11 – Intro
Dance Foundations 11	Physics 11
Directing and Script Development 11	Pre-Calculus 11
Drama 11 – Intermediate	Pre-Calculus 11 – Daily
Drawing and Painting 11 – Intermediate	Psychology 11 – Criminology
Earth Science 11	Psychology 11
EFP Literary Studies and New Media 11	Robotics 11
EFP Literary Studies and Writing 11	Science for Citizens 11
Engineering L2	Spanish 3
Event Planning 11	Sports Medicine 11
<del>Explorations in Social Studies 11 Honours</del>	Strength and Conditioning 11
Fashion and Design 11 – Intermediate	Strength and Conditioning 11 – OT
Film Production 11 – Intermediate	Television Production 11 – OT
<del>Fitness and Conditioning 11</del>	Theatre Company 11 – OT
Food Studies 11 – Advanced	Theatre Production 11
Foundations of Math 11	Woodwork 11
French 3	Workplace Math 11
<del>Guitar 11 – Intermediate</del>	Yearbook 11 – OT
Guitar 11 – Intro	

OT = Out of Timetable (course will be offered before or after school)

# GW Graham Course List for Grade 12

(sorted Alphabetically)

20th Century World History 12	<del>Contemporary Indigenous Studies 12</del>	Law Studies 12
Accounting 12	Creative Writing 12	Leadership 12
Active Living 12	Dance Foundations 12	Literary Studies 12
Active Living 12 – Baseball	Digital Media (Animation) 12	Machining and Welding 12
Active Living 12 – Basketball	Directing and Script Development 12	Media Arts 12
Active Living 12 – Football	Drama 12 – Advanced	Metalwork 12
Active Living 12 – Leadership	Drawing and Painting 12 – Advanced	Music Production and Recording Arts 12
Active Living 12 – Rugby	E-Commerce 12	Musical Theatre 12 – OT
Active Living 12 – Soccer	Engineering L3	<del>Orchestra 12</del>
Active Living 12 – Volleyball	English First Peoples 12	Outdoor Education 12 – OT
Anatomy and Physiology 12	English Studies 12	Peer Tutoring 12
Anatomy and Physiology 12 – Kinesiology	Entrepreneurship 12	<del>Pep Band 12 – OT</del>
AP 2-D Art and Design 12	Fashion and Design 12 – Advanced	Philosophy 12
AP 3-D Art and Design 12	Fashion Industry 12	Photography 12 – Intermediate
AP Biology 12	Film Production 12 – Advanced	Physical Geography 12
<del>AP Calculus AB 12</del>	<del>Fitness and Conditioning 12</del>	Physics 12
AP Chemistry 12	Food Studies 12 – Advanced	Pre-Calculus 12
AP English Literature and Composition 12	Foundations of Math 12	Psychology 12
AP Studio Art: Drawing 12	French 4	Robotics 12
AP World History: Modern 12	Furniture and Cabinetry 12	Social Justice 12
Architectural Drafting L3	Genocide Studies 12	Spanish 4
Art Studio 12 – Advanced	<del>Geology 12</del>	Sports Medicine 12
Calculus 12	<del>Geometry 12 (Art Focus)</del>	Strength and Conditioning 12
Ceramics and Sculpture 12 – Advanced	<del>Guitar 12 – Intermediate</del>	Strength and Conditioning 12 – OT
Chemistry 12	Guitar 12 – Intro	Television Production 12 – OT
Child Development and Caregiving 12	Halq'éméylem 12	Theatre Company 12 – OT
Choir 12	<del>Housing and Living Environments 12</del>	Theatre Production 12
Comparative Cultures 12	Industrial Coding and Design 12	Woodwork 12
Comparative World Religions 12	Instrumental Survey 12	Yearbook 12 – OT
Computer Programming 12	Jazz Band (Jr) 12 – OT	
Concert Band 12	Jazz Band (Sr) 12	

**OT = Out of Timetable** (course will be offered before or after school)

# FLEX EDUCATION 9–12



## What is Flex?

Flex is a block of time where students have the opportunity to take their learning into their own hands. Centered around student choice and based on the mindset of “Enrich, Expand, Explore” – students may use this time to:

- Develop a deeper understanding about a topic of choice.
- Prepare for upcoming classroom assessments.
- Connect with a teacher facilitator and/or peers to revisit topics.
- Make up missing assignments, quizzes, or tests.
- Prepare post-secondary and scholarship applications.
- Complete assigned Career Education or Flex assignments.
- Try something new.

## When does Flex occur?

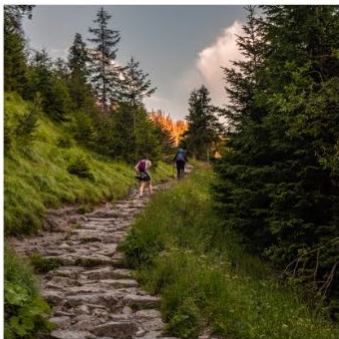
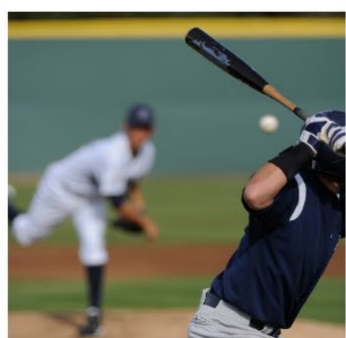
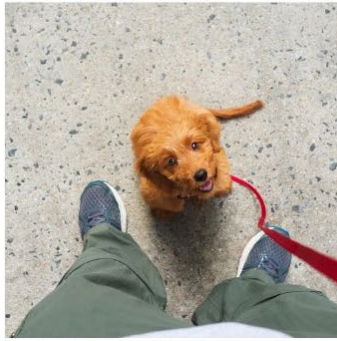
Flex currently occurs every Thursday from 9:33 a.m. to 10:33 a.m.

## Student Expectations

- Flex is a mandatory 2 credit course.
- Students are expected to be in class, actively participating, not wandering the hallways.
- Lates and absences will be treated the same as with other classes since attendance is compulsory.
- Take advantage of the time provided – this is YOUR time to have control over YOUR learning!

For more information, please visit: <https://gwg.sd33.bc.ca/flex> or  
email Mr. Pastorchik at [ryan\\_pastorchik@sd33.bc.ca](mailto:ryan_pastorchik@sd33.bc.ca)





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# **Specialty Programs & Focused Learning Opportunities**

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# ADVANCED PLACEMENT (AP) COURSES

The Advanced Placement Program is a cooperative educational endeavor between secondary schools and colleges and universities. AP, which was developed by the U.S. College Board in 1955, offers students the opportunity to take college level courses while still in high school. Students earning a score of 3 or better on their AP exam may earn either university or advanced placement credit. **Through the AP Seminar program, students may begin taking AP classes in grade 10.**

Students are provided with an enriched program that mirrors post-secondary curricula and expectations. Students will learn what college level courses are like and develop the skills and strategies necessary to be successful in college or university. *"College entrance exams reveal that young people who take challenging classes, such as Advanced Placement courses perform better than their peers regardless of their family or financial background."* – Rod Paige, U.S. Secretary of Education

## Frequently Asked Questions

### Why take AP?

AP Programs are enriched classes for students who love the subject area or enjoy learning in general. AP classes also teach students skills that help them become successful post-secondary students. AP classes are enriched in a variety of ways, including different material, activities, projects, and opportunities.

### What is AP Seminar?

AP Seminar is a skill-building AP program that provides students with opportunities to develop the strategies, confidence and communication needed to be successful in high-level academic programs. It is available to students beginning in grade 10.

### How many colleges and universities accept AP grades?

More than 90 percent of the colleges and universities in the United States and Canada, as well as colleges and universities in 21 other countries, have a policy granting incoming students credit, placement, or both, for qualifying AP Exam grades. Students with a "qualifying grade" (3+) can earn course credit at thousands of colleges and universities worldwide. The best source of specific and up-to-date information about an individual institution's policy on its calendar or website.

### Can only "A" students take AP classes?

No, all students are welcome to apply for an AP class. The most successful students are hardworking, organized, mature, motivated, and positive about their learning experience. Students should expect a fast passed, highly rigorous experience in their chosen class.

### Are there exams for AP Courses?

Yes, each AP course has an optional exam or portfolio submission in May. It is recommended that all students sit for the exam or submit their portfolio. Examination costs are approximately \$135.00 CAD per course/exam and \$200.00 CAD for the AP Seminar Exam. Exam fees are non-refundable.



# WHAT AP OPPORTUNITIES ARE AVAILABLE?

GW Graham Secondary's AP offering continues to expand. Here is what is available for 2024 – 2025:

GW Graham Secondary 2024 – 2025 AP Programs	
Department/Program	More Information on
<b>English</b>	
AP Language and Composition 12 (AEN--12)	Page: 30
AP Literature and Composition 12 (AELC-12)	Page: 31
<b>Science</b>	
AP Chemistry 12 (ACHE-12)	Page: 52
AP Biology 12 (ABIO-12)	Page: 51
<b>Fine Arts</b>	
AP 2-D Art and Design 12 (A2DP-12)	Page: 64
AP 3-D Art and Design 12 (A3DP-12)	Page: 64
AP Studio Art: Drawing (ASAD-12)	Page: 64
<b>Social Studies</b>	
AP World History: Modern (AWH--12)	Page: 57
<b>Mathematics</b>	
AP Calculus AB (ACAL-12)	Page: 42
<b>AP Capstone</b>	
AP Seminar (available to students in grade 10-12) (APCS-11)	See below

Students interested in AP programming should talk to their counsellor or current subject teacher.

General information on AP Courses is also available at: [www.collegeboard.com](http://www.collegeboard.com)

## AP CAPSTONE SEMINAR 11 (APCS-11)

Prerequisite: None

AP Seminar, **open to students in grades 10 – 12**, immerses learners in cross-curricular studies, exploring the intricacies of academic and real-world topics. Students will develop and refine academic skills through the analysis of diverse perspectives, engaging with non-fiction, literary, scholarly, persuasive, and philosophical texts, as well as speeches, broadcasts, personal accounts, and artistic works.

Guided by an inquiry framework, students master the art of gathering and synthesizing information from various sources. This synthesis is applied in crafting compelling written essays and designing articulate oral and visual presentations, both independently and collaboratively. Classroom discussions are an essential part of this course and serve as a means of assessing student learning.

As part of the AP Capstone program, AP Seminar empowers students to develop critical and creative thinking skills while forging connections between complex issues and their lives. Emphasizing diverse viewpoints, students navigate a deliberate process of inquiry and investigation, synthesizing information from primary and secondary sources. The rich tapestry of academic sources provides a profound appreciation for complex issues, enabling students to analyze evidence and consider a spectrum of options, solutions, or resolutions to real-world and academic challenges.

Note: this is a Multi/Interdisciplinary Studies Course. There is an **exam fee of \$200.00 CAD** (non-refundable)



## GRIZZLIES BASEBALL



This program will provide high level, baseball specific training to suit the needs of aspiring athletes who want to improve upon and elevate their overall skills of the game. Students will be engaging in high performance training developed in collaboration with Team Theorem, which focuses on core athletic movements with progression towards sport specific development. Grizzlies Baseball will run during two combined periods in the first semester. As such, students will receive credit for two courses: Strength and Conditioning as well as Active Living or Physical and Health Education.

Training will be led by a combination of the Graham PHE teaching staff and local elite level community coaches. Course content will include on and off the field training, baseball IQ development, sport psychology seminars, SAT prep, recruiting video prep, the college recruitment process, NCCP coaching certification, visualization training, umpire certification, and MED training (making ethical decisions course). In addition, students also learn about the following topics: hydration, sleep, hygiene, time management, concussion management, performance enhancing drugs, nutrition, and healthy lifestyle choices. Students considering this program must be highly self-motivated and prepared to work to their maximum potential in each class. It is recommended that students have some experience competing at the elite baseball level. We are privileged to partner with the Tzeachten First Nation to have our program run primarily on the Tzeachten Turf Field. Students will need to be prepared to train outside most days of the week between the months of September to January.

**There is a \$280.00 fee for this program.**

Student athletes from this course, will also have the opportunity to try out for Graham's fall baseball travel team that will head south of the border during the fall for USA high school identification tournaments. Fees for the baseball travel team will be separate from the course fee.



# CANINE FOUNDATIONS PROGRAM

Getting paid to spend your days working with dogs may sound like a dream come true, but it doesn't have to be a fantasy! There are many jobs that let dog lovers spend their days hanging out with puppies and pooches... and get paid to do it! This half day semester program prepares students to pursue a career in a variety of canine focused areas. Areas include training, grooming, fitness, veterinary assistant, dog boarding, etc. Whether you are looking to explore your passion for dogs further or learn about what the dog world has to offer, this program will give you the foundation needed to explore various career opportunities.

Hands on learning opportunities will be an integral part of the experience, including work experience opportunities at various job sites in the community. This requires students to be active, mature participants. Learners will also have an opportunity to work with dogs in both the classroom and community at different levels of training and incorporate the techniques learned. Students will be required to use their knowledge from course material and adapt it to real world situations. Volunteering at local shelters, ring stewarding at dog shows, interning at a grooming salon, fundraising for rescue/service organizations, and guest speakers will also provide valuable experiential learning to further develop skills.

After exploring a variety of different options students will choose a focal area they wish to pursue. This inquiry will allow the student to connect their learning with their passion. This can include gaining basic certification in some areas such as dog first aid, dog training, dog grooming, etc. Some aspects of the course may involve working with other animal organizations (besides dogs) in our community.

Upon successful completion of Canine Foundations, students will acquire the following graduation credits:

- **Science for Citizens 11** (4 Credits)
- **Canine Knowledge** – including canine behaviour, developmental stages, psychology, physiology, body language, nutrition, canine wellness, basic veterinary care, basic genetics, and dog breeding (ex. Breeding/selecting dog for specific role).
- **Canine Training** – exploration of training methods, individualized dog training, handling and husbandry to best practice and ability to communicate and demonstrate these training techniques to others.
- **Animal Ethics** – Education on ethical training and humane husbandry methods, communication skills to educate public.
- **Animal Human Bond** – The impact animals have on our health and well-being, and society.
- **Work Experience** (4 Credits)
- **Workforce Training Certificate** (4 Credits)





# SPECIALTY PROGRAMS

## GRAHAMX



### *Explore, Experience, Express*

GrahamX is a cross-curricular, place based, and outdoor learning program that offers students the chance to experience our local environment. Students will explore the curriculum of different courses during a variety of hands-on and off-site field trips and educational opportunities. Students will be grouped in a cohort and work collaboratively to explore various topics. The program is designed to give students the opportunity to learn about their local area and pursue their interests in a deep, enriching manner. This program may benefit students who seek alternative learning experiences.

Students in GrahamX will develop an understanding of personal and social responsibility, collaborate, and think critically to explore issues and ideas associated with different topics in our community. Learning will be connected to interactive and hands-on activities so that students make connections to the world around them. Students will be asked to complete projects throughout the year to show understanding of competencies and learning outcomes associated with the various courses.

GrahamX is a half-day, full year program that will, by the end of the year, cover the curriculum from select courses (see below). The other two blocks of the school day will comprise of other graduation requirements and/or electives selected by the student. Students will be participating in outdoor activities, rain or shine, and so appropriate clothing will be required.

The program will be offered as different cohorts: Grade 9 and Grade 10. Students may enroll in GrahamX for any of the cohort options as it fits their schedule and can enroll in GrahamX for one or both years.

#### **Grade 9 Cohort (Full Year)**

- English 9
- Science 9
- Physical and Health Education 9

- Social Studies 9
- Career Education

#### **Grade 10 Cohort (Full Year)**

- English 10
- Science 10
- Physical and Health Education 10

- Social Studies 10
- Career Life Education 10





In Outdoor Education, students will challenge themselves mentally, physically, socially and emotionally. Students will gain valuable knowledge, skills, and attitudes to appreciate the beautiful and diverse natural environments found in British Columbia. Outdoor Education will emphasize the development of physical fitness through various outdoor pursuits. Students will learn about and practice a variety of outdoor skills including trip planning, leave no trace principles, food preparation, wilderness safety, hiking, wilderness camping, snowshoeing, skiing/snowboarding, kayaking/canoeing, wilderness navigation, paddle boarding, and much more.

In this course students will learn and practice sustainable, low impact pursuits so as to preserve the natural environment for future generations to enjoy. Students will also connect to nature and learn to appreciate the natural environment and all it has to offer. Learning in Outdoor Education goes “beyond the classroom”. Students will utilize the great outdoors as a classroom and incorporate many skills to live an active and healthy lifestyle.

Due to the nature of this course, students must be committed to enthusiastic participation and a willingness to embrace new environments and challenging situations in all seasons. An above average level of fitness is recommended as some extended day and overnight hikes are required. Students will also need to have appropriate clothing and equipment for activities considering the types of weather encountered in this part of BC. This course runs for the full year and is taught outside of the regular timetable. Most of the class time is after school and on weekends.

In Outdoor Education, students will gain credits for Physical and Health Education (Outdoor Education 11 and/or 12 = 4 credits each year) as well as Photography 10 (4 credits).

The course fee is dependent upon activities each year.

**The estimated cost for 2024-25 will be \$100.00/semester.**

This program is open to students from Grades 9-12, but space is limited, and priority will be given based on grade level.

*“Look deep into nature, and then you will understand everything better.”*

-Einstein-





# FILM PRODUCTION WORKSHOP

**Film Production Workshop** is a hands-on, project-based film program unique to our school district. This immersive, full semester, workshop 'style' class offers students a chance to take a 'deep dive' into learning and experiencing film production. Students often develop lasting connections with peers who have similar passions and connect with a variety of industry and community professionals.

Students will develop their skills, understanding, and appreciation for:

- Teamwork and collaboration in a variety of film settings.
- Film production, analysis and real-world film scenarios.
- Directing and scriptwriting.
- Cultural awareness, including Indigenous Peoples of Canada.
- Community development and partnerships.
- Real-world experiences connected to film.



Upon successful completion of **Film Production Workshop**, students will acquire the following graduation credits\*:

- English First People's Lit Studies & New Media 11 or New Media 12.
- Film Production 11 or 12.
- Directing & Scriptwriting 11 or 12.
- WEX (Work Experience) 11 or 12.
- Workforce Training Certificates 12.
- Project Based Learning 11 or 12.

\*credits may sometimes vary depending on personal grad plans.

## Requirements to enroll in Film Production Workshop:

- Be a current grade 10-12 student.
- A strong, mature and positive work ethic.
- Excellent attendance.
- Ability and desire to work collaboratively.
- Desire to take creative risks.
- Previous film class experience an asset.



## What might a day look like in **Film Production Workshop**?

This will vary, however, here are some examples:

- We are going to Capilano University or Vancouver Film School for a field trip to check out their amazing programs in film production.
- We are meeting at Chilliwack Airport to shoot a short film, using an old airplane as part of our set.
- Students are working on individual short comedy films that will be shown during Flex.
- We are working on pitching ideas to the class, then revising and planning production.
- The class has an industry talk with a commercial cinematographer, then students will break off and work on planning a commercial shoot we are doing in our community.
- Today we are out shooting a music video for a local band.
- Students are out doing work experience on local sets or working with business partners.





## SPECIALIZED FOODS & CULINARY PROGRAM



*with Mrs. Sandra Bergeron*

This advanced program will provide an opportunity for baking enthusiasts who have a personal interest in specialty baking. The baking program is designed to build and expand your skill set and help you be able to prepare food with professional results that look and taste amazing. This program will run in two periods. Students who enroll in the baking program will receive credit for two courses:

**Specialized Foods 12 – Baking & Pastry (4 credits) and  
Culinary 12 – Advanced Product Development (4 credits)**

This program will focus on bakeshop fundamentals, giving students a hands-on opportunity to learn more about what it takes to work in the industry while creating a variety of baked goods. Students will gain confidence and experience while using specialized tools and equipment. They will discover and learn to manage the basics of food science while baking. Students will also learn about food production, quantity foods, food service and how to manage food costs. Throughout the year students will have opportunities to bake and share with other students throughout the school, building school community with food. This is the perfect program if you want to ignite your passion for baking!

In addition to skill development, students will also have the opportunity take the Food Safe Level 1 course. This provincially approved course will be taught and woven into the classroom curriculum. This optional certificate earned in class is an asset when working in the food industry. It is valuable training that can be used for future job opportunities.

**Fee for the (optional) *Food Safe Level 1* Certificate is \$30.00**

Students considering this program must be self-motivated. It is highly recommended that students have taken an advanced Foods class – either Foods 11, Foods 12, or obtain teacher's permission.

# TRADES SAMPLER

The Trades Sampler is a deep learning program, designed with the following focused experiences:

- Instruction: collaborative, hands-on learning where there is approximately 70% with a practical focus and 30% theoretical.
- Work Experience: real-world experiences where students are supported with their learning at a local business.
- Post-Secondary Experience: partnerships with post-secondary institutes where our students will attend for short or extended learning experiences.
- Community Connections: classes will take on various projects throughout our community with the overall goal of giving back and supporting others.
- Specialty Career Advisor Support: a career advisor works with these classes for assisting students with exploring work and post-secondary opportunities.



This full-semester program has career advisor support offered before and after completion of the deep learning semester. Programs are designed for students in Grades 11 and 12, so it is recommended to build a plan to meet graduation requirements while fitting in a focused semester. Students interested in the Trades Sampler can consult with their school counsellor or select the program on their course selection form. A school counsellor or career advisor will meet with interested students to ensure the program is the right fit for them. Overall, students with a strong work ethic and regular attendance will be considered for these programs.



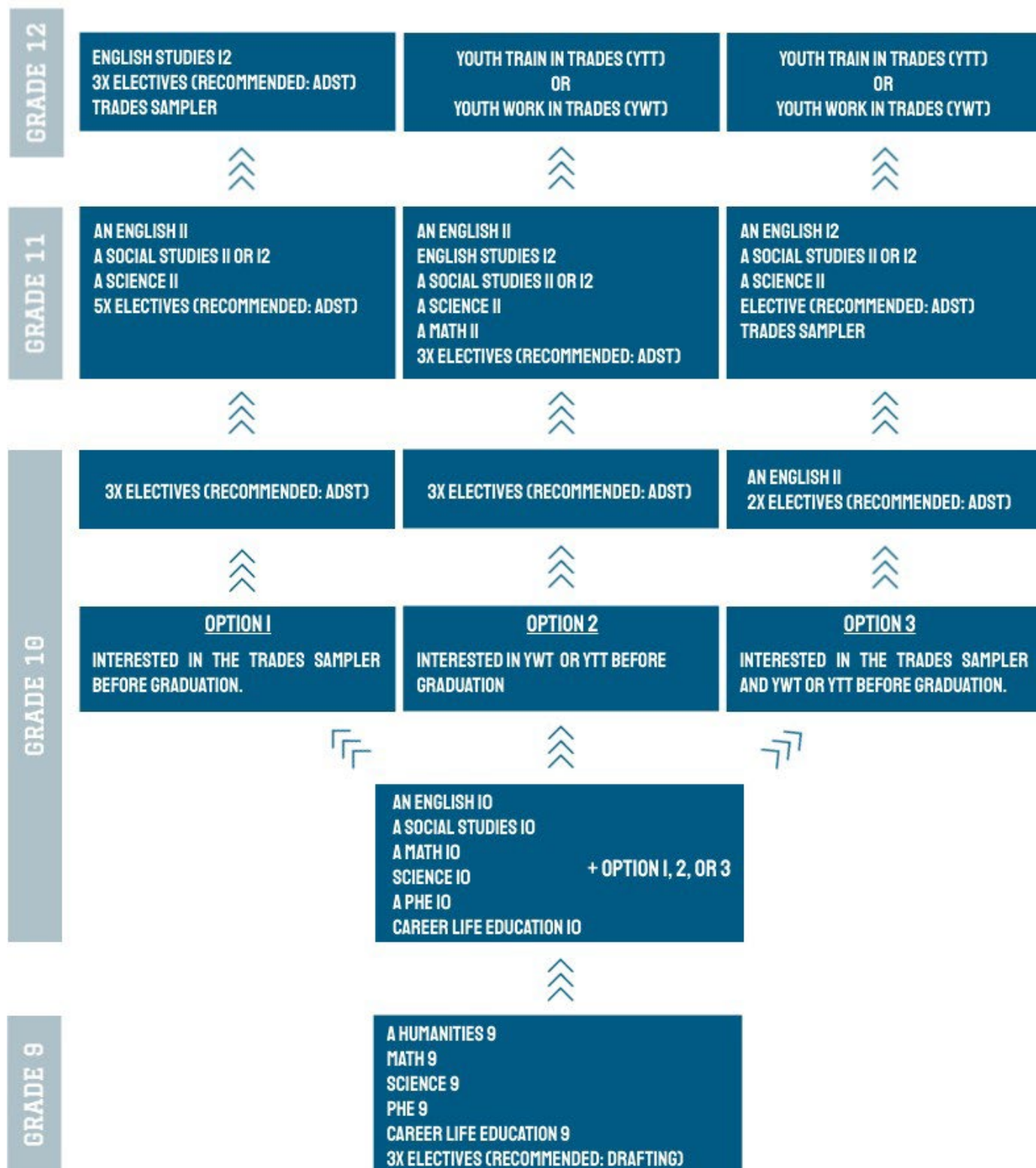
**See the following page for information on the Graham Trades pathway.**

For more details and information on the following courses, go to the *SD 33 Learning Opportunities* pages at the end of this booklet:

- Trades Sampler (page 72)
- Youth WORK in Trades (page 73)
- Youth TRAIN in Trades (pages 76-80)
- Regional Career Programs (page 81)
- (and other) opportunities

Additionally, check out the SD 33 Career Education website: <https://learningservices.sd33.bc.ca/careereducation>.

# GRAHAM TRADES









# Course Descriptions







# G.W. GRAHAM SECONDARY SCHOOL BUSINESS COURSES 2024-2025

## ENTREPRENEURSHIP AND MARKETING 10 (MADEM10)

NEW!

**Prerequisite:** None

In Entrepreneurship and Marketing 10, students will be introduced to business concepts such as accounting, marketing, and economics. Students will be introduced to business concepts such as entrepreneurship, characteristics of entrepreneurs, ways to add value to an existing idea or product, differences between invention and innovation, barriers that various groups of entrepreneur's face and the factors that can contribute to their success, and life cycle of a product from invention/innovation to the marketplace.



## MARKETING AND ENTPRENEURSHIP COURSES

Entrepreneurship and Marketing courses provide students with a rich insight into the world of business. These courses give students skills that can be brought directly into the workforce such as organization, time management, creative thinking, critical thinking, money management, and many more valuable skills. Entrepreneurship and Marketing courses are perfect for students who want to learn about how to create, advertise, and operate a business.



## MARKETING AND PROMOTION 11 (MMAP-11)

**Prerequisite:** None

In Marketing and Promotion 11, students will gain an introductory knowledge to the world of business with a more specific focus on marketing and promotion practices. Students will begin to develop their own business model and marketing tools for a product of their own creation. Students will be introduced to the various ways of marketing and promotion used to persuade the public to buy a product or service. Students will learn about things such as: target market, marketability of a product, segmentation, targeting, positioning of the market, and how to promote a product's benefits. The course also looks at risks associated with marketing a product, such as environmental impacts and financial hardship. Students will also look at forms of advertising that can influence a potential customer, naming rights, and the role of advertising in promoting a product or service to an audience in both international and domestic settings.

Through the successful completion of this course students will gain the following certifications:

- Social Media Marketing Certification
- Digital Marketing/Advertising Certification
- Email Marketing Certification
- Inbound Marketing Certification



## ECOMMERCE 12 (MECOM12)

NEW!

**Prerequisite:** None

In E-Commerce 12, students will receive an introductory knowledge into the world of business and marketing. Students will learn how marketing/business principles are translated into an online environment. This course addresses learning related to business development and practice using online channels. This course will focus on digital retail, revenue models, distribution solutions, and marketing practices. This course will analyze online marketing trends, online retail platforms, algorithm advertising, and various other online retail/marketing concepts.

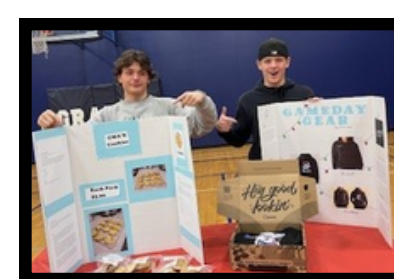
amazon



## ENTREPRENEURSHIP 12 (MENT-12)

**Prerequisite:** Marketing and Promotion 11

In Entrepreneurship 12, students will continue to build on the knowledge they gained from Marketing and Promotion 11. Students will continue to build and develop their business models that they created in Marketing and Promotion 11. Students will take these business models from theoretical to operational businesses. Students will design, manufacture, and sell their products. At the end of the course, students will participate in a business market held at the school and sell their products to local consumers.







# G.W. GRAHAM SECONDARY SCHOOL BUSINESS COURSES 2024-2025

## FINANCE COURSES

These courses help students to develop the skills they need to pursue a career in finance. Finance courses take math skills, concepts, and knowledge and apply it to real world situations.



### ACCOUNTING 11 (MAC--11)

**Prerequisite:** None

Accounting 11 is a course designed to provide students with an introduction to accounting concepts. Students will gain insights into financial problems and solutions, which have far-reaching benefits for entrepreneurial and professional careers. This course would be beneficial for those interested in pursuing careers in accounting or business. As well as students looking to gain valuable employable skills that can be transferred to various entry-level professional jobs.



### ACCOUNTING 12 (MACC-12)

**Prerequisite:** Accounting 11

In Accounting 12, students will build upon the skills they learned in Accounting 11. Accounting 12 focuses on advanced accounting principles and practices. Learning includes financial reporting for sole proprietorships, partnerships, cooperatives and corporations, payroll practices, and inventory systems.

### EVENT PLANNING 11 (YBMO-1B)

**Prerequisite:** None

Event Planning 11 is a course designed for students that are passionate about event planning, and/or interested in pursuing a career in event planning after graduation. Event Planning 11 will teach students the fundamental aspects of planning, organizing and running an event both on a small and large scale. Students will be given the opportunity to practice their event planning skills by creating, planning, organizing and running events in their school community. Event Planning 11 will provide students with opportunities to be creative, participate in their school community, and explore the career field of event planning.

Note: Events that are planned as a part of the course may occur outside of school hours. Students are expected to participate in the running of all events planned in the course.



## EVENT PLANNING

**NEW!**

Interested in planning both small and large scale school events? Want to learn the business aspect of event planning? or do you want to gain experience and skills that will make you more employable beyond high school? If so, you should consider an event planning course.

## TAKE THE BUSINESS STREAM

### GRADE 10

- Entrepreneurship and Marketing 10

### GRADE 11

- Marketing and Promotion 11
- Accounting 11
- Event Planning 11

### GRADE 12

- Entrepreneurship 12
- Accounting 12
- E-Commerce 12



# COMPUTER EDUCATION

## COMPUTER STUDIES 10 (MCSTU10)

Prerequisite: None

This course will introduce you to a wide variety of computer-based topics from how computers work, coding, computer-based design and the use of business applications. The basics of coding through Python is an important part of this course, as is computer design. Student's will design projects through adobe illustrator, photoshop, animate, and 3D modeling programs. Students will bring their digital designs to life through 3D printing and vinyl cutting. Skills learned in this course can be applied to many future courses and occupations.

## COMPUTER PROGRAMMING 11 (MCMPR11)

Prerequisite: *Computer Studies 10* or *Robotics 10* Recommended

This course will feature Python in-depth for the first term, and game design using Unity in the second. If you are already comfortable with all aspects of Python and are able to demonstrate your knowledge, you may begin with a different programming language of your choice. Although most students choose to develop games in Unity, you may also study cybersecurity through Palo Alto Networks Cybersecurity Academy or develop an app (pending availability of program).

## COMPUTER PROGRAMMING 12 (MCMPR12)

Prerequisite: *Computer Programming 11* Recommended

For students with credit for Computer Programming 11, this course will focus on your interests. Learn a programming language of your choice. You may also begin/continue Unity game development, cybersecurity through Palo Alto Networks Cybersecurity Academy, or app development (pending availability of program). If you have little prior experience with computer programming, please sign up for Computer Programming 11 instead.



## MEDIA DESIGN (ANIMATION) 10 (MMEDD10)

Prerequisite: None

Do you want to create your own animations using industry-standard software like Maya or Blender? This beginner course will allow you to choose one or both and work on foundational methods for 2D or 3D animation (including modelling). Learn what influences professionals when they create their work. Discover how to storyboard effectively. Contribute 3D models or environments to the game designers in Computer Programming. Create a digital portfolio online to showcase your best work.

## MEDIA DESIGN (ANIMATION) 11 (MMEDD11)

Prerequisite: *Media Design (Animation) 10* Recommended

Do you want to create your own animations using industry-standard software like Maya or Blender? In this intermediate course, what you study will depend on your starting point for the course. Work on intermediate methods for 2D or 3D animation (including modelling). Get tips & techniques recommended by professional animators. Contribute 3D models or environments to the game designers in Computer Programming. Create or update your digital portfolio online to showcase your best work. What you study will depend on your starting point for the course.

## DIGITAL MEDIA (ANIMATION) 12 (MDMD-12)

Prerequisite: *Media Design (Animation) 11*

Do you want to create your own animations using industry-standard software like Maya or Blender? In this advanced course, what you study will depend on your starting point and interests. Work on intermediate methods for 2D or 3D animation (including modelling). Get tips & techniques recommended by professional animators. Contribute 3D models or environments to the game designers in Computer Programming. Create or update your digital portfolio online to showcase your best work. What you study will depend on your starting point for the course.





# ENGLISH LANGUAGE ARTS

GRADE 9	→	HUMANITIES 9	HUMANITIES 9 FINE ARTS	HUMANITIES 9 GRAHAMX	
GRADE 10	→	CREATIVE WRITING & COMPOSITION 10	LITERARY STUDIES & COMPOSITION 10	NEW MEDIA & COMPOSITION 10	HUMANITIES 10 FINE ARTS HUMANITIES 10 GRAHAMX
GRADE 11	→	ENGLISH FIRST PEOPLES LITERARY STUDIES & WRITING 11	ENGLISH FIRST PEOPLES LITERARY STUDIES & NEW MEDIA 11	AP ENGLISH LANGUAGE & COMPOSITION	
GRADE 12	→	ENGLISH STUDIES 12	ENGLISH FIRST PEOPLES 12	AP ENGLISH LITERATURE & COMPOSITION	
ELECTIVES	→	LITERARY STUDIES 12	CREATIVE WRITING 12		

\* New Media 10 and New Media 11 are not applicable for NCAA bound students \*

## HUMANITIES (ENGLISH) 9 (MEN--09)

Prerequisite: *English 8*

This course is run as part of the Humanities 9 program which combines all the learning outcomes of English 9 and Social Studies 9 in a blended, cross-curricular format. Students will comprehend and make connections to a variety of texts, as well as create their own texts and learn to communicate effectively in a wide range of formats and styles. Students will also learn about political and technological revolutions, the impacts of imperialism and colonialism, and the rise of national identities and nation states, with a focus on these changes on Canada.

## HUMANITIES (ENGLISH) 9 FINE ARTS (MEN--09)

Prerequisite: *English 8*

This course is run as part of the Humanities 9 program which combines all the learning outcomes of English 9 and Social Studies 9. Students will have opportunities to explore these outcomes through an artistic and cross-curricular lens. This program focuses on creative expression, project based learning, and artistic collaboration. It is a great fit for “outside of the box” thinkers, and those looking for opportunities to challenge themselves by demonstrating their learning in different ways. It is strongly encouraged that students interested in Humanities Fine Arts also be enrolled in a visual or performing arts course or be involved in extra-curricular visual or performing arts activities.



## ENGLISH 10 OPTIONS

Prerequisite: *English 9* or *English 9 Fine Arts*

Grade 10 students take Composition 10 (a requirement for all students) and their choice of Creative Writing, Literary Studies, or New Media. These courses are designed to be equal in complexity with many similar curricular competencies. Each course will include the exploration of story, texts, language, and reading and writing skills.

### CREATIVE WRITING & COMPOSITION 10 (MCTWR10)

Creative Writing 10 is designed for students who have an interest in creative expression through language. The course provides students opportunities to build their writing skills through the exploration of identity, memory, and story in a range of genres, including poetry, short fiction, non-fiction, drama, and others. Within a supportive community of writers, students will collaborate and develop their skills through writing and design processes. This course is intentionally grounded in the sampling of writing processes, inviting students to express themselves creatively as they experiment with, reflect on and practice their writing. Self and peer assessment, occurring prior to teacher-assessment, will develop students' abilities to draft, reflect, and revise.

### LITERARY STUDIES & COMPOSITION 10 (MLTST10)

Literary Studies 10 is designed for students who are interested in the literature (novels, short fiction, poetry, etc.) as it applies to a particular era, geographical area, or theme, or in the study of literature in general. The course allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media. Students will learn to think critically and analytically as they navigate through various works of literature, gaining a deep appreciation for and understanding of author perspective, literary devices and techniques, and elements of style. This course is an excellent option for those students who intend to eventually take AP English Literature & Composition in grade 12.

# ENGLISH LANGUAGE ARTS

## ENGLISH 10 OPTIONS CONTINUED...

### NEW MEDIA AND COMPOSITION 10 (MNMD-10)

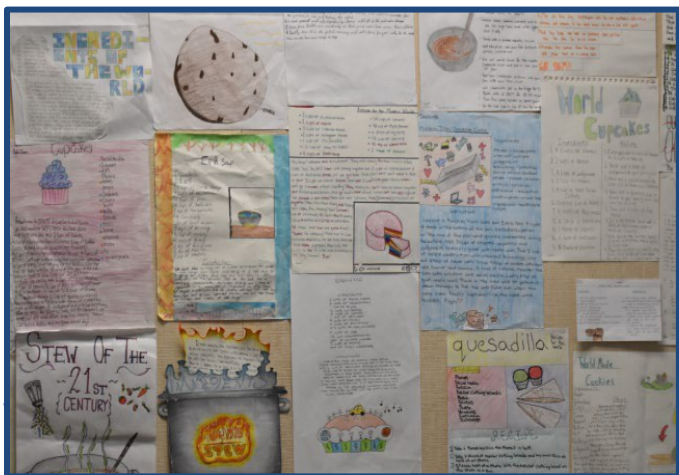
\*NOT FOR NCAA BOUND STUDENTS\*

New Media 10 is a course designed to introduce students to communication in an ever-changing digital world. New Media recognizes that digital media and digital literacy is an essential characteristic of the educated citizen. Students will learn the skills necessary to be successful and to communicate increasingly sophisticated ideas through a variety of digital studies including but not limited to journalism, publishing, blogging, media and film studies, and print media.

### HUMANITIES (ENGLISH) 10 FINE ARTS (MLTST10-FA)

This program combines all the learning outcomes of Composition/Focused Literacy Studies 10 and Social Studies 10 in a blended, cross-curricular format. Students will comprehend and make connections to a variety of texts, as well as create their own texts and learn to communicate effectively in a wide range of formats and styles. Students will also learn about the development of Canada in the twentieth century, including its growing involvement in international affairs. Significant social, political and economic changes redefined the character of the nation. Students will have opportunities to explore these outcomes through an artistic and cross-curricular lens. This program focuses on creative expression, project based learning, and artistic collaboration. It is a great fit for “outside of the box” thinkers, and those looking for opportunities to challenge themselves by demonstrating their learning in different ways.

It is strongly encouraged that students interested in Humanities Fine Arts also be enrolled in a visual or performing arts course or be involved in extra-curricular visual or performing arts activities.



## ENGLISH 11 OPTIONS

Prerequisite: Completion of an English 10 Course

### ENGLISH FIRST PEOPLES LITERARY STUDIES & WRITING 11 (MEFLS11)

EFP Literary Studies & Writing 11 is designed for students who are interested in studying First Peoples literature and using writing for self-expression and communication in a variety of contexts. Students delve deeply into First Peoples oral and written literature in a range of media to explore various themes, authors, and topics. This provides a foundation for them to think critically and creatively as they continue to explore, extend, and strengthen their own writing. Within a supportive community, students work individually and collaboratively to explore oral and written literature and create powerful, purposeful compositions. Through the study of literature and the processes of experimenting with, reflecting on, extending, and refining their writing, students: extend their capacity to communicate effectively in a variety of contexts, deepen their understanding of themselves and the world, and expand their understanding of what it means to be an educated Canadian and global citizen.

### ENGLISH FIRST PEOPLES LITERARY STUDIES & NEW MEDIA 11 (MELNM11)

EFP Literary Studies & Writing 11 is designed for students who are interested in studying First Peoples literature and using writing for self-expression and communication in a variety of contexts. Students delve deeply into First Peoples oral and written literature in a range of media to explore various themes, authors, and topics. This provides a foundation for them to think critically and creatively as they continue to explore, extend, and strengthen their own writing. Within a supportive community, students work individually and collaboratively to explore oral and written literature and create powerful, purposeful compositions. Through the study of literature and the processes of experimenting with, reflecting on, extending, and refining their writing, students: extend their capacity to communicate effectively in a variety of contexts, deepen their understanding of themselves and the world, and expand their understanding of what it means to be an educated Canadian and global citizen.



# ENGLISH LANGUAGE ARTS

## ENGLISH 11 OPTIONS CONTINUED...

### AP LANGUAGE AND COMPOSITION (AEN--12)

The Advanced Placement Language and Composition course is designed to cultivate critical reading, writing, and rhetorical skills essential for success in post-secondary and beyond. This course engages students in the study of language as a powerful tool for communication and persuasion. Through a rigorous curriculum, students will explore a variety of texts including essays, speeches, novels, visual texts, documentaries, films, and articles, spanning different genres, time periods, and perspectives.

The course is structured around three main components:

- 1. Rhetorical Analysis:** Students will develop the ability to analyze and deconstruct the rhetorical strategies employed in written and visual texts through close examination.
- 2. Argumentative Writing:** Emphasizing the art of persuasion, students will hone their skills in crafting compelling arguments. Students will engage in writing tasks that require them to articulate and defend their perspectives with clarity and precision.
- 3. Synthesis and Research:** Through independent research and synthesizing multiple perspectives, students will enhance their ability to construct well-reasoned, evidence-based arguments.

The course will also focus on refining language usage, stylistic choices, and rhetorical devices to elevate students' writing to a sophisticated and nuanced level. Additionally, students will participate in regular class discussions, collaborative projects, and presentations to enhance their oral communication skills. Ultimately, AP Language and Composition prepares students to navigate the complexities of language and rhetoric, equipping them with the skills necessary for success in college, careers, and adult life.

Note: There is an optional exam in May at the cost of \$135.00 CAD. If a student gets a high enough score on this exam, they may be able to obtain credit for a first-year university English course.

"If there's a book that you want to read, but it hasn't been written yet, then you must write it."  
-Toni Morrison-

## ENGLISH 12 OPTIONS

Prerequisite: Completion of an English 11 Course

### ENGLISH STUDIES 12 (MENST12)

English Studies 12 is required for graduation. This course will emphasize the mastery of composition and language skills as well as challenging students with a variety of literary works. Activities and assignments assist students in expanding their vocabularies, developing mature written and oral expression, and writing formally in a variety of expository forms. Literature consists of fiction and non-fiction prose, poetry, and drama.

### ENGLISH FIRST PEOPLES 12 (MENFP12)

English First Peoples 12 is the academic equivalent of English Studies 12 and satisfies the Grade 12 English language arts graduation program requirement. It is open to all students and is not intended for any one group. This course provides opportunities for all students to engage with indigenous creative expression and enter the worlds of First Peoples provincially, nationally, and internationally. The course focuses on the experiences, values, beliefs, and lived realities of First Peoples as evidenced in various forms of text— including oral story, speech, poetry, dramatic work, dance, song, film, and prose (fiction and non-fiction). The course is designed to enable students to develop the English language and literacy skills and capacities they must have in order to meet British Columbia's graduation requirements.





# ENGLISH LANGUAGE ARTS

## ENGLISH 12 OPTIONS CONTINUED...

### AP ENGLISH LITERATURE & COMPOSITION 12

Prerequisite: B or better in an English 11 course

This 12-credit course covers the learning outcomes for three courses: Advanced Placement Literature & Composition 12, English Studies 12, and Literary Studies 12. Students will meet daily for the entire school year and will receive three separate course grades.

#### AP ENGLISH LITERATURE & COMPOSITION 12 (AELC-12)

AP English Literature & Composition is a college-level English course that follows the curricular requirements as outlined by The College Board and is designed to engage students in the close reading and critical analysis of representative works from a variety of genres and periods. An important goal of AP Literature & Composition is to help develop mature habits of critical thinking as an independent reader and writer. This class is both demanding and intellectually stimulating and will require considerable amounts of independent reading and study. Classroom discussion and active participation are vital and serve as a means of assessing students' ideas. In addition, this course also covers the learning outcomes in English Studies 12. There is an *optional* AP English Literature & Composition 12 exam in May, at the cost of approximately \$135 per student. It is this exam score that determines whether a student will be granted college-level credit. This exam does not affect students' school-based mark in any way. There will be a final course-based assessment.

#### ENGLISH STUDIES 12 (MENST12-AP)

English 12 is required for graduation. This course will emphasize the mastery of composition and language skills as well as challenging students with a variety of literary works. Activities and assignments assist students in expanding their vocabularies, developing mature written and oral expression, and writing formally in a variety of expository forms. Literature consists of fiction and non-fiction prose, poetry, and drama.

#### LITERARY STUDIES 12 – AP (MLTST12 AP)

Literature 12 is an elective survey course designed to present the range of English literature from the medieval period to modern times. In this course, major English poets, essayists, novelists, and playwrights will be studied. The course is intended for the English student who has a great interest in English Literature and wishes to further their studies in a post-secondary program specializing in the arts. Written assignments, tests, projects, and a final assessment will determine the student's standing in this course.



### ENGLISH 12 ELECTIVE OPTIONS

(courses that do not satisfy the graduation requirement, but can be selected as an elective)

#### CREATIVE WRITING 12 (MCTWR12)

Prerequisite: B or better in an English 11 course

The Creative Writing course is an elective intended for students who possess imagination and a strong interest in creative expression through language. This course will look at what it takes to be a writer and provide students with the opportunity to experiment. Writers explore and expound their personal views of the universe through poetry, drama, short stories, and a variety of writing exercises designed to develop their skills. By the end of the course, students will have created a portfolio of writing that reflects their understanding of the skills required to produce quality work. Evaluation will be based on assessment of skill-building assignments and developing work, a final portfolio, participation, and submission of several pieces of writing for publication. Writing 12 is open to capable grade 10 and 11 students with permission.

#### LITERARY STUDIES 12 (MLTST12)

Prerequisite: C+ or better in an English 11 course

Literature 12 is an elective survey course designed to present the range of English literature from the medieval period to will be studied. The course is intended for the English student who has a great interest in English Literature and wishes to further their studies in a post-secondary program specializing in the arts. Written assignments, unit tests, and a final examination determine the student's standing in this course. It is not a substitute for English 12. In Literature 12, major English poets, essayists, novelists, and playwrights.

# HOME ECONOMICS

Home Economics (ADST) is a practical and theory component that draws knowledge from many disciplines and uses the experiences and needs of students to make learning meaningful. It fosters the critical thinking and problem-solving skills needed to manage individual and family resources.

## **G.W. Gaham options include:**

- ✓ *Child Development and Caregiving 12*
- ✓ *Fashion and Design 10, 11, 12*
- ✓ *Fashion Industry 12*
- ✓ *Food Studies 10, 11, 12*
- ✓ *Housing and Living Environments 12*

### **CHILD DEVELOPMENT & CAREGIVING 12** (MCDAC12)

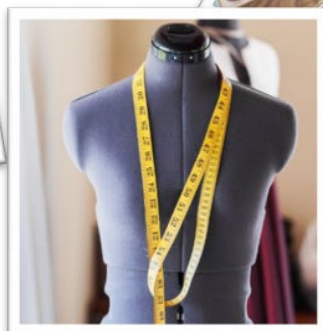
Prerequisite: None

Discover children and caregiving at every stage including planning for children, pregnancy and childbirth, child development, and caregiving up to the age of twelve. Discussions and activities will explore ways to encourage child development (e.g., music, toys, games, crafts), disposable vs. cloth diapers, and food and nutrition for children. Students will have the opportunity to develop a variety of activities for young children, as well as consider their beliefs about children and caregiving. Interactive experiences will include guests sharing their parenting experience, an opportunity to participate in an infant care simulation, and visits with young children.

### **HOUSING AND LIVING ENVIRONMENTS 12** (MHALE12)

Prerequisite: None

What kind of spaces enhance your sense of comfort and well-being? How does the design and decor of our homes reflect our personality and societal trends? How can you use design elements and principles, as well as various types of materials to create more inviting spaces? How can we use more sustainable materials in housing? What do I need to do to afford my own home? Can I turn a passion for design into a career? In this course, we will explore these questions and other aspects of housing, interior decorating, and design as you plan and create interior spaces to meet the needs of those who live in them.



# HOME ECONOMICS

## FOOD STUDIES 10 – INTRO (MFOOD10)

Prerequisite: None

An introductory foods course that will consider not only how, but also why food is prepared, served, and stored in certain ways. This course will teach the basic cooking techniques needed to successfully prepare breakfast, lunch, dinner, and dessert. Students will begin to adapt and alter recipes, as part of learning how to be a proficient designer. Special events may include a gingerbread design project.

## FOOD STUDIES 10 – INTERMEDIATE (MCUL-0A)

Prerequisite: Students (any grade level) who have taken a *Food Studies – Intro 10*

An intermediate foods course that introduces more advanced cooking skills and techniques. Students will explore a variety of foods and cooking techniques soups, meats, vegetables, cakes and yeast breads. Foods from other cultures may be included, as well as the opportunity to look at vegetarian options. Students will continue to work on their design skills throughout each unit, culminating in a food truck concept that they design, menu plan, and execute.

## FOOD STUDIES 11 – ADVANCED (MFOOD11)

Prerequisite: Gr. 11 Students who have taken *Food Studies 10 – Intro* and/or *Intermediate*

This course introduces students to more advanced food preparation techniques. We explore a wide variety of cooking principles that will escalate your kitchen abilities, increase your confidence, and kick start your way to independent cooking. In addition to great tasting recipes, students will learn about some hot topics in the food industry such as, food security, budgeting, meal planning, and foods from around the world. Students will also have an opportunity to take the Food Safe Level 1 course and exam offered by Fraser Health. (Additional cost of \$30.00) Successful students will receive a Food Safe certificate which is an asset when working in the food industry.

## FOOD STUDIES 12 – ADVANCED (MFOOD12)

Prerequisite: *Food Studies 11 – Advanced*

This course runs alongside Foods 11. It will compliment what you have already learned and then push your knowledge and abilities to the next level. We will focus on honing your kitchen skills with the expectation that you will be adding more elements of design and personal touches to your recipes, bringing your kitchen skills to the next level. Students will leave more confident in their abilities to cook for themselves and others. Students will also have an opportunity to make a wide range of recipes, use authentic tools, equipment, and ingredients to make dishes from cuisines found around the world. Students will also learn about current issues in the food industry.



## SPECIALIZED FOODS AND CULINARY ARTS 12

Prerequisite: *Food Studies 11* and/or *12 Advanced*

These advanced foods classes are 2 courses bundled into one, specially designed for the baking enthusiast who has a personal interest in specialty baking. This course will offer a double block of advanced training. More information on **page 21** of this booklet.

This opportunity consists of the following courses:

- Culinary Arts 12 – Advanced Product Development
- Specialized Foods 12 – Baking & Pastry



# HOME ECONOMICS

## FASHION & DESIGN 10 – INTRO (MTXT-10)

Prerequisite: None

Do you like sewing or want to learn how? Do you wear clothing? Do you have a personal style? Fashion & Design 10 is an introductory course where students will explore aspects of fashion while learning and developing basic sewing skills, including using and fitting patterns. Students will begin with simple sewing projects such as a South African jewelry pouch, weaving a Coast Salish bag, and/or designing a teething taggie or pet toy. Additional projects will be determined by the student in discussion with the teacher, and may include clothing garments (hoodies, sweatshirts, skirts, shirts, shorts, dresses, etc.), zippered cases or duffle bags, quilts, pet beds or clothing, stuffies, crochet, embroidery, etc. Some aspects of clothing selection, including design, fabrics, influences on clothing choices, and the environmental impact of the fashion industry will also be discussed. Some materials will be provided for smaller projects; students may be asked to supply patterns, fabric, and notions for larger projects. Students taking this course will receive credit for Textiles 10.

## FASHION & DESIGN 11 – INTERMEDIATE (MTXT-11)

Prerequisite: *Fashion & Design – Intro* Highly Recommended

If you are just learning to sew or have completed Fashion 10, this is the course for you! Learn about design and fabrics and how to work with them to develop and reflect your own personal style. Students will be introduced to more advanced sewing techniques and use of commercial patterns. Projects will be determined by the student in consultation with the teacher and may include clothing garments with more advanced design elements or techniques (pants, jeans, unlined jackets, and/or use of challenging fabrics, etc.), use of more intricate quilting and/or embellishment techniques, and/or creating personal designs for projects. Environmental and sustainability considerations of the fashion industry will be explored, as well as practical experience with upcycling textiles. Some materials will be provided for smaller projects; students may be asked to supply patterns, fabric, and notions for larger projects. Students taking this course will receive credit for Textiles 11.



## FASHION & DESIGN 12 – ADVANCED (MTXT-12)

Prerequisite: *Fashion & Design – Intermediate*

Refine and continue to develop your fashion and/or textile design, pattern drafting, and clothing construction skills in this course! Advanced construction and fitting techniques will be explored using either computer-aided drafting, commercial patterns, or modified patterns. Projects will be determined by the student in consultation with the teacher and may include items such as challenging garments and/or fabrics (lined jacket or coat, creation of personal designs and patterns, leather or synthetic, velvet, sheer fabrics, etc.), difficult quilting techniques, creation of furniture or technical items (hiking equipment, etc.), recycling or upcycling textile items, and/or use of equipment beyond basic sewing techniques (sewing machine, serger, coverlock, embroidery machine, etc.). Some materials will be provided for smaller projects; students may be asked to supply patterns, fabric, and notions for larger projects. Students taking this course will receive credit for Textiles 12.

## FASHION INDUSTRY 12 (MFIND12)

Prerequisite: *Fashion & Design Intermediate* and/or *Advanced*, or Teacher Permission.

Are you interested in taking your design and sewing skills to the next level? Would you be interested in working in some aspect of the fashion industry? This course is for the Grade 11/12 student who has completed Intermediate and/or Advanced Fashion & Design 11/12 and would like to further explore the fashion industry, textile, or fashion design and pattern development. While you are expected to have developed some sewing skills, activities in this course could take another fashion-related direction.

Projects will be determined by the student's personal interests in consultation with the teacher and may include fashion sketching, exploration of influences on design, and industry considerations (supply chains, marketing and merchandising, environmental impacts, etc.). Some students might design and sew a "collection" in an area of interest (fashion, accessories, pet clothing, hiking equipment, knitting, embroidery, etc.). Those interested in other aspects of the fashion industry may design marketing and advertising layouts, window displays, design brand labels, or plan a fashion show. Some materials will be provided for smaller projects; students may be asked to supply patterns, fabric, and notions for larger projects.



## HUMAN SERVICES

## LEADERSHIP 9-12

Prerequisite: Application plus Consistently Satisfactory to Good Work Habits

Gr. 9 (XLEAD 09) / Gr. 10 (YIPS-0A)

Gr. 11 (YIPS-1A) / Gr. 12 (YIPS-2A)

Leadership is about initiative, innovation, organization, clear communication, and teamwork. This program provides opportunities for students to become meaningfully involved in both school and community activities. It is based on the concept that leadership can be developed through a variety of service opportunities. Students enrolled in this course will be given further opportunities to organize, run, and analyze events in the school and community. In addition, they will develop their own leadership and teamwork skills. The purpose of the course is for students to develop a lifelong appreciation of the importance of contributing to their communities and helping others. As part of the course, each student must complete a minimum of 20 hours of service per term.

## PEER TUTORING 11/12

Prerequisite: Application and Permission from Administrator

Gr. 11 (YIPS-1C) / Gr. 12 (YIPS-2C)

Students interested in the Human Services and/or teaching profession have an opportunity to experience and reflect on teaching in a real classroom setting. Peer Tutoring is a combination of teaching/learning theory and application with an emphasis on working with a teacher in a specific subject/grade level that they have completed themselves previously. 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 student's reflection and growth as shown through online assignments and self and placement teacher evaluations. Students in Peer Tutoring 11 will prepare (not teach) a lesson for their placement class. In Peer Tutoring 12, the students will prepare and teach short lessons, and receive feedback from their placement teacher.

Students must consult with their counsellor for an application form and approval. Otherwise, an alternate elective will be scheduled.

(PSYCHOLOGY) **CRIMINOLOGY 11** (YPSYC1A)

Prerequisite: None

Have you ever wondered what drives people to commit crime? Criminology is the scientific study of crime and criminals and through this course students will explore different types of crimes and the people who commit them. Through discussions, activities, guest speakers and inquiry, students will be doing a deep dive into the theories behind some of Canada's most notorious crimes. Students will also be exposed to different career paths in the field of Criminal Justice and gain firsthand experience in what these careers look like. Students will also have the opportunity to investigate areas of personal interest within the field of criminology.

**PSYCHOLOGY 11 (YPSYC1B)**

Prerequisite: None

Does listening to Mozart really make you smarter? Why do you act the way you do? How does personality develop? How can you control your stress? Can you survive with half a brain? Find the answers to these questions and more as you are introduced to looking at life through the lens of psychology. Be prepared to read, discuss, and study psychological theory as it applies to personality, lifespan development, motivation, perception, the brain, and more. Students will apply course concepts and learnings as they explore their personal life story or that of a fictional character.

**PSYCHOLOGY 12 (YPSYC1B)**

Prerequisite: None

Can you “condition” someone to do your bidding? Would you rob a bank if you were hypnotized? Does using technology impair memory function? What defines “normal” behaviour? Delve further into the field of psychology, as you explore learning, intelligence, memory, psychological disorders, and more. Readings, discussion, presentations, and a project on a psychology-related topic of your choice will all be part of this exploration into the field of psychology.

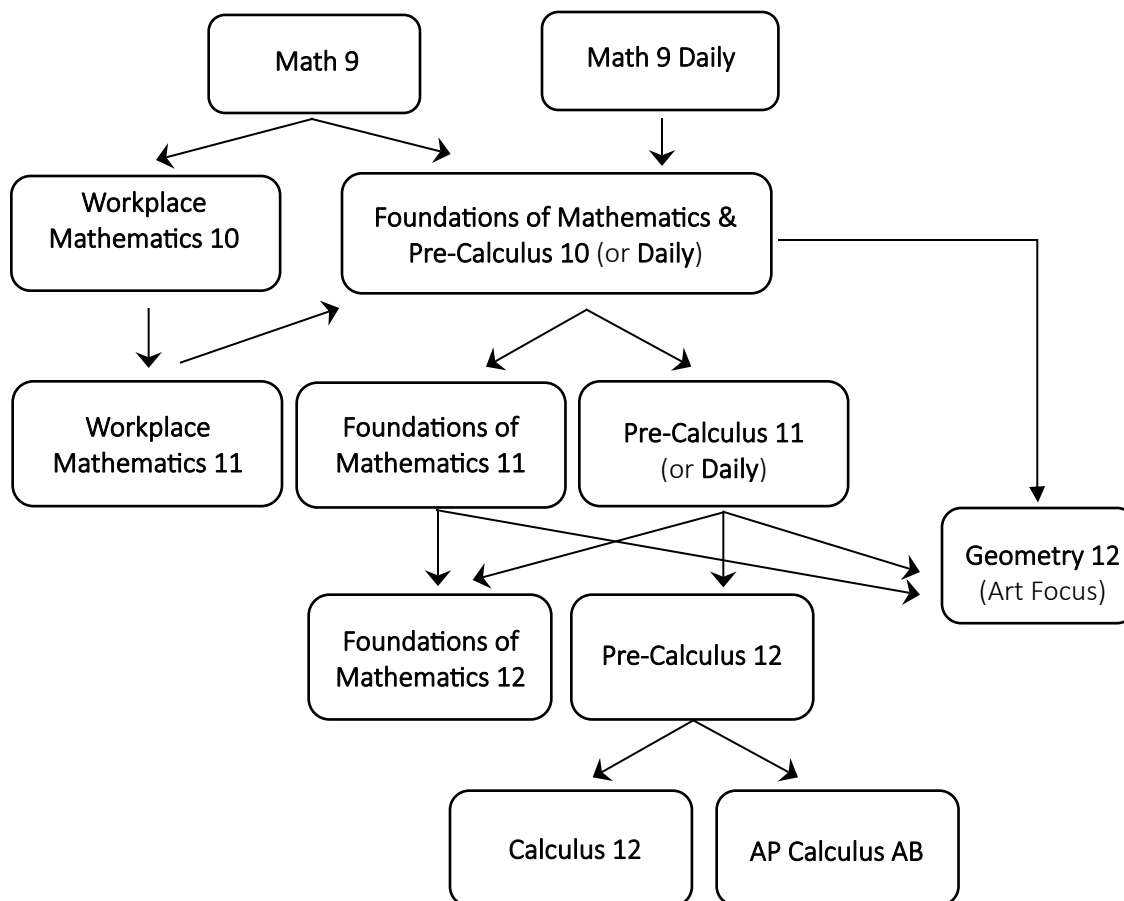




# MATHEMATICS

Mathematics (through to Grade 11) is a requirement for secondary school graduation. After completing Mathematics 9, students have a choice of different mathematics at the Grade 10, 11, and 12 levels. Students need to choose a pathway based on their individual interests and their education and career plans. **To be successful, regular home study and homework completion is expected of all students.**

## Math Pathway and Course Transitions from Grade 9 to 12



**Students interested in a career in Mathematics are encouraged to take more than one stream of Mathematics in high school. Talk to your math teacher for more information!**

### “WHICH MATH COURSE IS BEST SUITED TO MY NEEDS?”

While there is no “rule” about which Math course is right for each student, the decision can be made easier by thinking about your ability in Math, your interest in Math, and your future education and career plans. The courses have been designed to facilitate student success after high school. Your education choices after high school depend, in part, on the courses you take in high school. To find out more information about each pathway option, please talk to your counsellor and math teacher. Please remember that Grade 10 has only two courses but there are three pathways in Grade 11 and 12. Please review the diagram above. Students who choose Grade 10 Workplace cannot move to the Foundations stream easily.

# MATHEMATICS

## Choosing your Grade 10 Math Course

Workplace Math 10 AND  
Foundations of Math & Pre-Calculus 10  
Topics covered in Both Courses:

- Right Angle Trigonometry
- Income & Deductions

**\*\* Denotes that these topics form a large portion of the course material**

Topics covered ONLY in  
Workplace Math 10

- Measurement Conversions
- Surface Area & Volume
- Interpreting Graphs
- Angles & Parallel Lines
- Central Tendency
- Experimental Probability

Math 9 skills needed to be successful  
in Workplace Math 10

- Understanding **when to use** different number operations:
  - o Addition/Subtraction
  - o Division/Multiplication
- **General Number** work  
(Could be with the help of a calculator)
- Solving Proportions:

Find the missing number  $\frac{3}{7} = \frac{24}{x}$

Topics covered ONLY in  
Foundations of Math & Pre-Calculus 10

- Factors/Multiples
- Roots/Powers
- Multiplying Polynomials \*\*
- Factoring \*\*
- Functions/Relations
- Arithmetic Sequences
- Graphing Linear Functions \*\*
  - o Slopes/Intercepts
  - o Domain/Range
  - o Equations
- Systems of Linear Equations

Math 9 skills needed to be successful in  
Foundations of Math & Pre-Calculus 10

- **Number Skills**
  - o Positive/Negative Numbers  
 $-6 - (-2) =$
  - o Doing simple calculations without a calculator  
 $(\sqrt{16} - 2)^2 =$
- **Exponent Skills**
  - o Using Exponent Rules  
 $3^5 \times 3^2 = 3^7$ ,  $3^5 \div 3^2 = 3^3$  and  $(3^5)^2 = 3^{10}$
- **Algebra Skills\*\***
  - o Ability to work with variables  
Isolate y:  $5x + y - 75 = 0$
  - o Solving equations with more than 2 steps  
Find the value of x:  $2x + 3 = -1 - 4x$
  - o Multiplying Monomials/Polynomials  
Expand & Simplify:  $2x(5 - x) + 7x$

# MATHEMATICS

## MATHEMATICS 9 (MMA--09)

Prerequisite: Mathematics 8

This course introduces students to algebra. The foundation is laid with the understanding of variables, solving algebraic equations and expressions, working with polynomials, factoring, and measurement. The curricular competencies (reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting) are interwoven throughout the mathematical topics. There is an emphasis on student responsibility for learning. Homework is a necessity to reinforce the more difficult concepts learned in preparation for future math courses.

## MATHEMATICS 9 DAILY (MMA--09D)

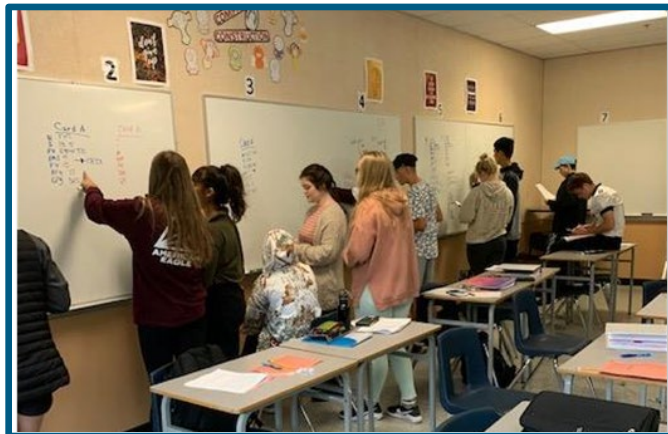
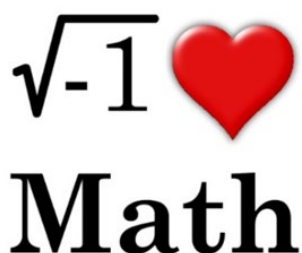
Prerequisite: Mathematics 8

This course covers the same content and course goals as Mathematics 9 (MMA--09) but allows for twice the amount of time to find success with the curriculum as students will take Mathematics 9 every day all year, rather than just one semester. The daily format will provide students with more time for processing and practice, enrichment games and activities, as well as individualized support for gaps in understanding of concepts from prior math courses that become apparent as the course progresses. The goal for this course is to have students build confidence and success with the material to better prepare for Foundations of Math and Pre-Calculus 10 (MFMP-10).

## WORKPLACE MATH 10 (MWPM-10)

Prerequisite: *Mathematics 9*

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for direct entry into the workforce. Topics include angles, geometry, measurement, number, central tendency, finance, and probability. The curricular competencies (reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting) are interwoven throughout the mathematical topics.



## FOUNDATIONS OF MATH & PRE-CALCULUS 10 (MFMP-10)

Prerequisite: *Mathematics 9 (Developing or higher, Recommended)*

This course introduces students to the mathematical understandings and critical-thinking skills further developed in the Foundations of Mathematics and Pre-Calculus pathways. Topics include algebra, number, finance, probability, and relations & functions. The curricular competencies (reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting) are interwoven throughout the mathematical topics. This course has a final exam worth 20% of the student's overall mark.

## FOUNDATIONS OF MATH & PRE-CALCULUS 10 DAILY (MFMP-10-D)

Prerequisite: *Mathematics 9 (Developing or higher, Recommended)*

This course covers the same content and course goals as Foundations and Pre-Calculus Math 10 (FMP 10), but it allows for twice the amount of time to find success with the curriculum. Students will take FMP 10 every day all year, rather than just one semester. This is an academic course that requires students to be committed to working hard and studying outside of class time. The daily format will provide students with more time for processing, practice, and enrichment activities. It also allows for more individualized support for learning gaps in understanding from prior math courses. Students successfully completing FMP 10 daily will be recommended to take Foundations of Math 11 or Pre-Calculus 11. This course has a final exam worth 20% of the student's overall mark.

# MATHEMATICS

## “WHAT COURSE DO I TAKE FOR GRADE 11 MATH, IF I WAS IN FOUNDATIONS OF MATHEMATICS & PRE-CALCULUS 10?”

The answer will be an individual decision for each student. The Foundations pathway was designed for students who wish to go to University or College and study a program that does NOT require theoretical Calculus. The Pre-Calculus pathway was designed for students who are going to enter higher level Mathematics, Sciences, or Engineering where Calculus is a required course or field of study. This is the most challenging pathway.

## Choosing your Grade 11 Math Course

Foundations of Math 11 &  
Pre-Calculus 11  
Topics covered in Both Courses:



- Trigonometry (Sine/Cosine Laws)
- Characteristics of Quadratic Functions (With or without technology)
- Financial Literacy (Investments & Loans)

Topics covered ONLY in  
Foundations of Math 11

- Properties of Angles (Transversals & Parallel Lines, Angles in Polygons)
- Inductive & Deductive Reasoning
- Analyzing puzzles/games & Problem Solving
- Statistics (Normal Distribution, Standard Deviation, z-scores, Confidence intervals/levels)
- Model & Solve Systems of linear inequalities and equations.
- Solve Linear-Quadratic & Quadratic-Quadratic equations graphically.
- Scale Models

Skills you should be comfortable with  
before taking FOM 11

- Solving proportions:
  - o  $\frac{3}{7} = \frac{24}{x}$
- Solving Trigonometry problems using Sin, Cos, Tan, and Pythagoras
- Greatest common factors:
  - o Find the GCF of  $24xy^3$ ,  $8xyz$ , and  $12x^2y^2$
- Substituting values into equations:
  - o Find  $y$  when  $x = 5$ :  $y = -\frac{2}{3}(x + 4)$
- Isolating Variables
  - o Solve for  $y$ :  $5x - 3y + 75 = 0$
- Graphing Linear Functions
  - o Graph the function  $y = -\frac{1}{7}x + 3$

Topics covered ONLY in  
Pre-Calculus 11

- Radical Expressions & Equations
- Rational Expressions & Equations
- Angles in Standard Position (Including primary trig functions and special angles)
- Factoring Quadratic Expressions\*\* & Completing the Square
- Solving problems involving quadratic equations\*\*
- Sequences & Series
- Exponential Functions

Skills you should be comfortable with before  
taking PREC 11

- Solving Trigonometry problems using Sine, Cosine, Tangent and Pythagoras
- Factoring Trinomials of the form  $ax^2 + bx + c$ 
  - o Factor  $4x^2 + 2x - 30$  to get  $2(2x - 5)(x + 3)$
- Simplifying Radicals
  - o  $\sqrt{60} = 2\sqrt{15}$
- Converting between General Form, Slope-Point Form, and Slope-Intercept form for Linear Functions
- Graphing Linear Functions
  - o Graph the function  $5x - 3y + 75 = 0$

# MATHEMATICS

## FOUNDATIONS OF MATH 11 (MFOM-11)

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

The Foundations pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Topics include financial mathematics, geometry, numbers, logical reasoning, relations and functions, statistics, and algebra. The curricular competencies (reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting) are interwoven throughout the mathematical topics. Students completing Foundations of Mathematics 11 fulfill their secondary school graduation requirement in mathematics but may choose to take Pre-Calculus 11 and/or Foundations of Mathematics 12. This course has a final exam worth 20% of the student's overall mark.

## WORKPLACE MATH 11 (MWPM-11)

Prerequisite: Any Mathematics 10

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for direct entry into the work force. Topics include measurement, numbers, 2D & 3D representations, statistics, and finance. The curricular competencies (reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting) are interwoven throughout the mathematical topics. Students completing Workplace Mathematics 11 fulfill their secondary school graduation requirement in mathematics, however some post-secondary institutions may require the completion of an entrance exam. Students should book an appointment with the career advisor for more information.

"Go down deep enough into anything and you will find mathematics."

-Dean Schlicter-

## PRE-CALCULUS 11 (MPREC11)

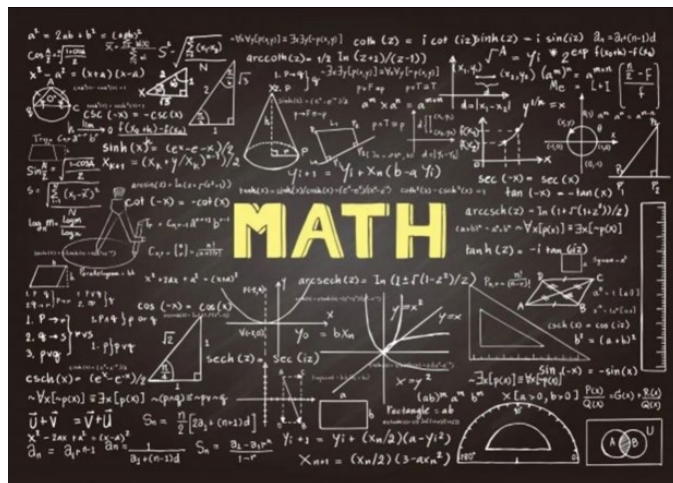
Prerequisite: *Foundations of Math and Pre-Calculus 10*

The Pre-Calculus pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require the study of theoretical calculus. Topics include algebra and numbers, relations and functions, trigonometry, radical and rational expressions and equations, sequences & series, linear and quadratic inequalities, and finance. The curricular competencies (reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting) are interwoven throughout the mathematical topics. Students completing Pre-Calculus 11 fulfill their secondary school graduation requirement in mathematics but may choose to continue with the study of Pre-Calculus 12 and Calculus 12 or AP Calculus AB. This course has a final exam worth 30% of the student's overall mark.

## PRE-CALCULUS 11 DAILY (MPREC11-D)

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

This course covers the same content and course goals as Pre-Calculus 11, but it allows for twice the amount of time to find success with the curriculum. Students will take Pre-Calculus 11 every day all year, rather than just one semester. This is an academic course that requires students to be committed to working hard and studying outside of class time. The daily format will provide students with more time for processing, practice, and enrichment activities. It also allows for more individualized support for learning gaps in understanding from prior math courses. Students successfully completing Pre-Calculus 11 daily fulfill their secondary school graduation requirement in mathematics but may choose to continue with the study of Pre-Calculus 12 or other Mathematics courses. This course has a final exam worth 30% of the student's overall mark.





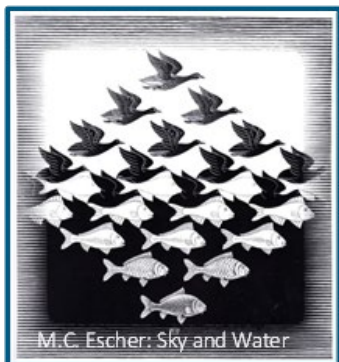
# MATHEMATICS

## ~~GEOMETRY 12 (ART FOCUS) (MCMT-12)~~

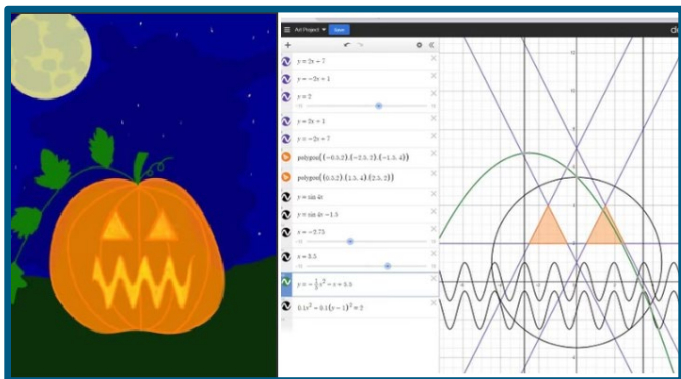
Prerequisite: *Foundations of Math 11* or *Pre-Calculus 11* (or *Foundations of Math & Pre-Calculus 10* with min. 73%)

Geometry 12 is an exploratory Math Course concerning shape and space. This course will focus on these concepts through an artistic lens. Students will be working with Desmos to model mathematical and nonmathematical phenomena in Geometry as well as working with different mediums to display mathematical concepts through art. In this course we will also explore different artists who are known for their geometric art.

Geometry is used in a multitude of disciplines rooted in the arts, including animation, architecture, 3D modelling, product design, graphic design, and video game design. Geometry 12 Art Focus will cover 5 general mathematical topics: Geometric Constructions, Circle Geometry, Constructing Tangents, Transformations of 2D shapes (including the isometries and affine transformations), Perspective and non-Euclidean geometries.



M.C. Escher: Sky and Water



The curricular competencies are interwoven throughout the mathematical and art topics. Students will have to produce projects that connect art and mathematics together to display their learning of the content and can explore using different mediums including sketching, painting, watercolours, pastels, illustrator programs etc. If you are passionate about art and math combined, or passionate about art and want more time and space to explore it, then this course is right for you! **This course satisfies the graduation requirement for a Math 11/12 but may not satisfy entry requirements for post-secondary programs. Check with your counsellor/career advisor about long term planning.**

## FOUNDATIONS OF MATH 12 (MFOM-12)

Prerequisite: *Foundations of Math 11* or *Pre-Calculus 11*

This is a continuation of the curriculum covered in Foundations of Mathematics 11. The Foundations pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Topics include transformations, number, logical reasoning, relations and functions, statistics & probability, and combinatorics. The core competencies (communication, creative thinking, critical thinking, positive personal and cultural identity, personal awareness and responsibility, and social responsibility) are interwoven throughout the mathematical topics. This course has a final exam worth 20% of the student's overall mark.

## PRE-CALCULUS 12 (MPREC12)

Prerequisite: *Pre-Calculus 11*

This is a continuation of the curriculum covered in Pre-Calculus 11. The Pre-Calculus pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require the study of theoretical calculus. It is a rigorous course, and topics include algebra and numbers, relations and functions, and trigonometry. The curricular competencies (reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting) are interwoven throughout the mathematical topics. Students completing Pre-Calculus 12 may choose to continue with the study of Calculus 12 or AP Calculus AB. This course has a final exam worth 30% of the student's overall mark.





# MATHEMATICS

## CALCULUS 12 (MCALC12)

Prerequisite: *Pre-Calculus 12*

Calculus gives Grade 12 students who are proficient in algebra the opportunity to advance their knowledge of mathematics and to smooth the transition between secondary school mathematics and university calculus. Calculus 12 is intended for students who have above average skills in algebra, geometry, trigonometry, and analytic geometry. The course consists of college-level treatment of elementary functions, limits, differential calculus, integral calculus, and simple differential equations. The curricular competencies (reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting) are interwoven throughout the mathematical topics. This course has a school-based final exam worth 30% of the student's overall mark.

\*Students taking Calculus 12 have the option of writing a Calculus challenge exam in June (put out by UBC). If students score over 50% on this exam, they are entitled to credit for the first term of calculus at any of the following universities: UBC, SFU, UVIC, UFV, TWU and UNBC. As of June 2023, the cost of this exam was \$100.00.

Please go to the following website for more information: [http://outreach.math.ubc.ca/calc\\_challenge.html/](http://outreach.math.ubc.ca/calc_challenge.html/)

## AP CALCULUS 12 (ACAL-12)

Prerequisite: *Pre-Calculus 12*

AP Calculus AB gives Grade 12 students who are proficient in algebra the opportunity to advance their knowledge of mathematics and to gain credit for first year calculus at a university. AP Calculus AB will cover the same curriculum as Calculus 12, with an emphasis on preparing for the AP Calculus AB exam in May. This course will be timetabled as linear. Therefore, **students must complete Pre-Calculus 12 by the end of June in their grade 11 year to register in AP Calculus AB.**

\*Students taking AP Calculus AB will be expected to write the AP exam in May. If students score a 4 or 5 on this exam, they are entitled to credit for the first term of calculus at many national and international universities.

## Frequently Asked Questions

**Q. How are the two Calculus courses similar?**

**A.** Both courses cover the same curriculum and prepare students for first semester Calculus at university. They also both have an optional exam that could provide credit for first semester Calculus at University. Students who take either course can choose to retake first semester Calculus at University regardless of their result on this exam.

**Q. How are the two courses different?**

**A.** Calculus 12 will be assessed at a high-school level and has a school-based final exam. Students choosing to write the optional challenge exam put out from UBC/SFU (current cost of \$100.00 CAD) can potentially receive credit for first semester Calculus at many of the local BC Universities.

AP Calculus 12 will be assessed at a university level with an emphasis on preparing for the AP exam in May. Students are expected to write the AP Exam in May at a current (non-refundable) cost of approximately \$135.00 CAD. Students achieving a 4 or 5 on the AP Exam can choose to receive credit for first semester University at many local, national, and international Universities.

**Q. Which course should I take?**

**A.** If you are wanting to prepare for first semester Calculus at University but plan to retake it at university for credit, it is recommended you take Calculus 12. If you want to receive credit for first semester Calculus from University and plan to go directly to second semester Calculus at University, it is recommended you take AP Calculus. Regardless of which course you choose, you will cover the material from first semester Calculus at University.

# MODERN LANGUAGES

Students who plan to attend university may require a Grade 11 language credit for admission.

## FRENCH 1 (MFR--09)

Prerequisite: None

The focus of level 1 French is to develop the four essential language skills: Reading and Listening comprehension and Writing and Spoken production. This is an introductory course and while French 8 is beneficial it is not a requirement. A variety of resources incorporating culture provide the framework for growth and development at this level. A range of formative and summative assessments (practice exercises, quizzes, tests, presentations and projects, individual and group) provide the students with the opportunity to demonstrate their skill level and knowledge. Please note speaking in class is a requirement for a language course. The primary focus in Level 1 is to prepare the student for level 2 French, by developing a foundation of knowledge and applicable skills to succeed at the next level.

## FRENCH 2 (MFR--10)

Prerequisite: *French 1*

French is Canada's other official language. Those who continue on in French have improved job opportunities and access to many universities! The goal of functional bilingualism is possible, as we continue to focus on the development of speaking and listening comprehension and written and spoken production in level 2 French. The use of the target language is stressed and students are empowered with the knowledge and skills to succeed. Students explore the language through both traditional methods and TPRS (teaching proficiency through reading and storytelling) There is a final assessment at the end of the course that assesses the four essential language skills: reading, speaking, listening and writing.

## FRENCH 3 (MFR--11)

Prerequisite: *French 2*

In level 3, students have the opportunity to progress and solidify their knowledge, comprehension and speaking skills developed in level 2. The use of the target language is stressed at all times. Course readings are supplemented with films, music and other resources as needed. The student has the opportunity to continue to learn about French culture within the context of language. Students often work in groups and partners to complete interactive and experiential tasks throughout the semester. In addition, students complete individual exercises, quizzes and tests as the semester progresses. Students use their previous reading and speaking skills to complete a French Literature circle. There is a final assessment at end of the course to assess both input and output abilities.

## FRENCH 4 (MFR--12)

Prerequisite: *French 3*

The rewards of continual study of Canada's other official language are experienced in Level 4. Students communicate with increasing ease and fluency and their comprehension and written output improves significantly. Students continue to explore French through a variety of resources with a focus on written and oral output. Student's knowledge of the francophone world expands as do their future travel opportunities in the target language! A lit circle project will help students to dive into French culture and expand on their critical thinking skills. Students are well on their way to meeting the goal of functional bilingualism as they complete French (12).



# MODERN LANGUAGES

## SPANISH 1 (MSP--09)

Prerequisite: None

Spanish Level 1 is the foundational course for success in the Spanish language. Students focus on communicating in Spanish via reading, writing, and speaking and are evaluated through traditional assessments. Vocabulary revolves around everyday life situations. The building blocks of Spanish grammar are thoroughly explained, and mastery of such concepts is pursued.

## SPANISH 2 (MSP--10)

Prerequisite: *Spanish 1*

Successful completion of Level 1 is foundational to succeed in Level 2. Students continue to improve their skills in the areas of reading, writing, and speaking, and are evaluated using both traditional and non-traditional assessments. Vocabulary and cultural knowledge expands, encouraging students to think outside their own worldviews. Grammar concepts deepen, allowing for a greater sense of becoming fluent in the language.

## SPANISH 3 (MSP--11)

Prerequisite: *Spanish 2*

Students will build on their experience in Level 2. Students sharpen their skills and begin to "find their voice" in the areas of writing and speaking. The works that are read become both longer and more satisfying. Cultural concepts begin to influence dialogue and creative thought. Grammar concepts allow for enhanced storytelling abilities. Both traditional and non-traditional assessments are employed.

## SPANISH 4 (MSP--12)

Prerequisite: *Spanish 3*

Successful completion of Level 3 is required to succeed in Level 4. Students are exposed to literary works and culturally influencing historical events. Fluency is pursued through conversation, dialogue, and debate. The finer nuances of grammar are explored. Reading, writing, and speaking continue to be main sources of input and output, and both traditional and non-traditional assessments are employed.



## HALQ'EMÉYLEM 10-12

Prerequisite: None

Gr. 10 (MHALQ10) / Gr. 11 (MHALQ11) / Gr. 12 (MHALQ12)

In this course, students will focus on the Upriver - Halq'eméylem language spoken by the Sto:lo people on whose land our community lives, works, and goes to school. Students will actively engage in the Sto:lo culture, be inspired through the development of intercultural understanding, and join in Aboriginal language revitalization. Successful completion of this foundational course prepares students for progression into higher levels of study in Halq'eméylem and Sto:lo cultural learning. As well as the benefits Halq'eméylem education provides First Nations People, it also benefits non-aboriginal students living in our diverse community.

## LANGUAGES FOR TRAVEL (YLOE-1A)

Prerequisite: None

Are you dreaming of a future traveling the world? Don't let language be a barrier for your travels! This course will teach you the basics on how to communicate and navigate cultural differences in a new country, while exploring rich history around the world. Wow your friends by recognizing famous landmarks and the history behind them. You will be introduced to several languages such as French, Spanish and Korean. The course is designed to prepare students for international travel and goes beyond just necessary language skills. Students will also explore different customs around the world, travel etiquette and how to plan, book and pack for travels around the world. This will be a largely project-based course with some use of the target language in class. Exam free course and prior knowledge of any of the languages is not necessary. Come share your passion for travel with others! **\*This course does not meet the Language 11 requirement for Post Secondary programs.**



# PHYSICAL AND HEALTH EDUCATION

The GW Graham Physical and Health Education Department believes PHE courses should provide worthwhile experiences which will influence all students to live a healthy, active, and meaningful life.

It is our aim to:

- help students develop valuable skills for use in future leisure time.
- help students become aware of the activities which indicate to the student the necessity of physical fitness; and
- help students achieve so they have a sense of personal worth and esteem.

In Grades 9 and 10, Physical and Health Education is a required course. In Grades 11 and 12, PHE courses are elective courses. Students in any grade may take more than one PHE course throughout the school year.

## PHYSICAL AND HEALTH EDUCATION 9 (MPHED-09)

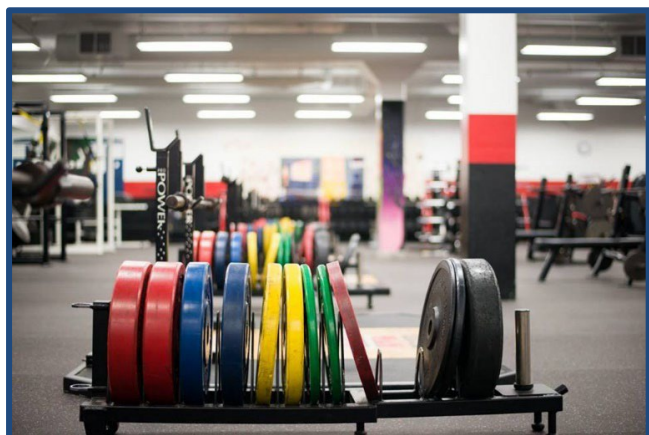
Prerequisite: None

PHE 9 is an extension of PHE 8 where emphasis is placed on exposing students to a wide range of activities. Most activities will be presented in three or four week units. Basic skills, techniques and game strategies will be presented during each selected activity. Drills, lead-up games, competitions, and class tournaments will be used in these developments. In addition, a working knowledge of game rules will be emphasized. Healthy living concepts and cardiovascular activities will form an integral part of classes. Evaluation will focus on fitness, skills, effort, participation, cooperation, and sportsmanship. Active participation will be required of all students.

## PHYSICAL AND HEALTH EDUCATION 10 (MPHED10)

Prerequisite: PHE 9

PHE 10 continues to develop basic skills and focuses on activities that students will enjoy and continue to participate in during future years. PHE 10 will emphasize healthy living concepts and a variety of recreational activities. Areas stressed are cardiovascular fitness and strength and conditioning, in addition to individual, dual and team sports and activities. Evaluation is based upon fitness assessment, skills, knowledge (written assignments/quizzes), effort, cooperation, sportsmanship, and class participation.



## ACTIVE LIVING 11/12

Prerequisite: Any PHE 10 or Active Living 11

Gr. 11 (MACLV11) / Gr. 12 (MACLV12)

Active Living 11 is directed at students who enjoy physical education, but who may not be an athlete or participate on extracurricular teams. This course will expose students to a fitness program, outdoor field activities and indoor individual and team sports. Students are expected to display maturity and a willingness to try new experiences. Enthusiasm and a positive outlook will go a long way to enhancing the quality of this course. Leisure activities may include tennis, disc golf, skating, racquet sports, all of which may result in field trips to various facilities. The course introduces students to recreational activities not covered in PHE 9 and 10. Evaluation is based upon fitness assessment, skills, knowledge (written assignments/quizzes), effort, sportsmanship, and class participation.

## FITNESS & CONDITIONING 11/12

Prerequisite: minimum C+ in previous PHE course

Gr. 11 (MFTCD11) / Gr. 12 (MFTCD12)

Fitness & Conditioning 11/12 is a course for students interested in learning about and participating in a variety of recreational fitness activities such as spin classes, yoga, Pilates, cardio kickboxing and Zumba, in addition to experiencing a variety of strength and conditioning activities and training. Outside guests may be invited to share their knowledge and expertise pertaining to fitness, strength, and flexibility goals. An emphasis for this class will be to motivate students through participation in non-threatening, non-competitive activities in a supportive and encouraging classroom environment. Students will acquire a basic understanding of muscular anatomy, nutrition, and training principles. Students will leave the course with the knowledge and confidence to continue to lead an active and healthy lifestyle.

**COURSE CANCELLED**



# PHYSICAL AND HEALTH EDUCATION

## STRENGTH AND CONDITIONING OPTIONS

### STRENGTH AND CONDITIONING 10-12

Prerequisite: minimum C+ in previous PHE course

Gr. 10 (YHRA-OC)

Gr. 11 (MFTCD11-SC)

Gr. 12 (MFTCD12-SC)

This course is a multi-unit course, designed for students that are passionate about their active healthy lifestyle. This course will provide students with an overall approach to daily exercise routines in the recreational community weight room setting. The goal of the course is to improve the student's understanding of muscular anatomy, nutrition, scientific principles of weight training and conditioning, care and prevention of injuries, and fitness program design. The course is structured around the following course objectives:

- ✓ understanding the science of weight training.
- ✓ designing and assessing general fitness programs.
- ✓ understanding fitness and weight training safety.
- ✓ demonstrating proper technique in a variety of lifts and exercises.
- ✓ developing an understanding of lifetime fitness and nutrition.
- ✓ being exposed to and participating in a variety of conditioning activities.
- ✓ increasing self-esteem, fitness level and overall health.

Evaluation is based upon fitness assessment, knowledge (written exams), daily journals, effort, peer cooperation, and class participation. Strength and Conditioning 12 is a continuation of Strength and Conditioning 10 and 11. Learning will be similar to the other courses; however, the level of understanding will continue to evolve. The ultimate goal in this course will be to provide students with the tools and knowledge they require to continue an active healthy lifestyle at the community recreational level.



### STRENGTH AND CONDITIONING 10-12 – OT

Prerequisite: minimum C+ in previous PHE course or recommendation from previous PHE teacher

Gr. 10 (YHRA-OC OT)

Gr. 11 (MFTCD11-SCOT)

Gr. 12 (MFTCD12-SCOT)

Students interested in training before school and/or after school must be registered in Out of Timetable Strength and Conditioning in order to receive access to the weight room outside of regular class hours.

This course is designed for the following students:

Elite Junior and Senior Varsity athletes that want to add to their current training program.

Students that are committed to a healthy active lifestyle, however, due to timetable constraints are not able to schedule strength and conditioning into their regular course load.

**Students who register for this course must be committed to their personal training.**

### SWIMMING AND LIFESAVING 11 – OT (YLRA-1L)

Prerequisite: Swimming Ability is required for safety reasons. Student must be able to swim 400m continuously (with a recognizable stroke) or be able to swim 100m continuously in less than 3 minutes.

The course will include a variety of Aquatic activities (swimming, water rescue, other).

This is a pre-employment program in partnership with the YMCA. Throughout the duration of the course, students will be given instruction towards attaining their Bronze Medallion, Bronze Cross, and Standard First Aid certifications (if they don't already have them). These are all of the prerequisites for the National Lifeguard course. There is a **total certification fee of up to \$125.00** (if all certifications are needed/successful).

**This semester course will start at 7:00 am at Cheam Leisure Centre (every other day) and will end at 9:30 am so students can get back to school for block 2.**

# PHYSICAL AND HEALTH EDUCATION

## PHE BASKETBALL 9-12

Prerequisite: minimum B in previous PHE course or a recommendation from previous PHE teacher

Gr. 9 (MPHE- 09BB) / Gr. 10 (MPHED 10-BB)

Gr. 11 (MACLV 11-BB) / Gr. 12 (MACLV 12-BB)

This course will provide high level, basketball specific training, to suit the needs of aspiring basketball players who want to improve upon and elevate their overall skills of the game. Evaluation will be based on fitness, skills, daily participation, personal reflection and goal setting, advanced knowledge of rules, effort, sportsmanship and class involvement. Students considering this course must be highly self- motivated and prepared to work to their maximum potential in each class. Students will be engaging in high-performance training developed in collaboration with Team Theorem. This program will be focused on core athletic movements with progression towards sport- specific development. Students are encouraged to purchase Graham athletics training gear for this class. Clothing orders take place in June.

## PHE FOOTBALL 9-12

Prerequisite: minimum B in previous PHE course or a recommendation from previous PHE teacher

Gr. 9 (MPHE-09FB) / Gr. 10 (MPHED10-FB)

Gr. 11 (MACLV11-FB) / Gr. 12 (MACLV12-FB)

This course will provide high level, football specific training, to suit the needs of aspiring football players who want to improve upon and elevate their overall skills of the game. Evaluation will be based on fitness, skills, daily participation, personal reflection and goal setting, advanced knowledge of rules, effort, sportsmanship and class involvement. Students considering this course must be highly self-motivated and prepared to work to their maximum potential in each class. Students will be engaging high performance training developed in collaboration with Team Theorem. Programs will be focused on core athletic movements with progression towards sport specific development. Students are encouraged to purchase Graham Athletics training gear for this class. Clothing orders take place in June.



## PHE SOCCER 9-12

Prerequisite: minimum B in previous PHE course or a recommendation from previous PHE teacher

Gr. 9 (MPHE-09SO) / Gr. 10 (MPHED10-SO)

Gr. 11 (MACLV11-SO) / Gr. 12 (MACLV12-SO)

This course will provide high level, soccer specific training, to suit the needs of aspiring soccer players who want to improve upon and elevate their overall skills of the game. Evaluation will be based on fitness, skills, daily participation, personal reflection and goal setting, advanced knowledge of rules, effort, sportsmanship and class involvement. Students considering this course must be highly self-motivated and prepared to work to their maximum potential in each class. Students will be engaging in high-performance training developed in collaboration with Team Theorem. This program will be focused on core athletic movements with progression towards sport-specific development. **Course Fee: \$100.00.** Students are encouraged to purchase Graham athletics training gear for this class. Clothing orders take place in June.

## PHE VOLLEYBALL 9-12

Prerequisite: minimum B in previous PHE course or a recommendation from previous PHE teacher

Gr. 9 (MPHE-09VB) / Gr. 10 (MPHED10-VB)

Gr. 11 (MACLV11-VB) / Gr. 12 (MACLV12-VB)

This course will provide high-level, volleyball specific training, to suit the needs of aspiring volleyball players who want to improve upon and elevate their overall skills of the game. Evaluation will be based on fitness, skills, daily participation, personal reflection and goal setting, advanced knowledge of rules, effort, sportsmanship and class involvement. Students considering this course must be highly self-motivated and prepared to work to their maximum potential in each class. Students will be engaging in high-performance training developed in collaboration with Team Theorem. This program will be focused on core athletic movements with progression towards sport-specific development. Students are encouraged to purchase Graham athletics training gear for this class. Clothing orders take place in June.



# PHYSICAL AND HEALTH EDUCATION

## PHE RUGBY 9-12

Prerequisite: minimum B in previous PHE course or a recommendation from previous PHE teacher

Gr. 9 (MPHE-09RU) / Gr. 10 (MPHED10-RU)

Gr. 11 (MACLV11-RU) / Gr. 12 (MACLV12-RU)

This course will provide high level, Rugby specific training, to suit the needs of aspiring rugby players who want to improve upon and elevate their overall skills of the game. Evaluation will be based on fitness, skills, daily participation, personal reflection and goal setting, advanced knowledge of rules, effort, sportsmanship and class involvement. Students considering this course must be highly self-motivated and prepared to work to their maximum potential in each class. Students will be engaging high performance training developed in collaboration with Team Theorem. Programs will be focused on core athletic movements with progression towards sport specific development.



## PHE BASEBALL 9-12

Prerequisite: minimum B in previous PHE course or a recommendation from previous PHE teacher

Gr. 9 (MPHE-09BSE) / Gr. 10 (MPHED10-BSE)

Gr. 11 (MACLV11-BSE) / Gr. 12 (MACLV12-BSE)

Course information located under the *Specialty Programs* section of this booklet, on **page 16**.



## PHE LEADERSHIP 9-12

Prerequisite: Application and Instructor Approval

Gr. 9 (MPHE-09 LD) / Gr. 10 (MPHED10 LD)

Gr. 11 (MACLV11 LD) / Gr. 12 (MACLV12 LD)

This course is directed at students who enjoy PHE, a high level of activity, and being involved in the school and community. This course will empower students to take on a leadership role, work cooperatively with others, and demonstrate an understanding of the processes needed to co-ordinate school and athletic events and programs. Students will learn to apply knowledge, communication and interpersonal skills, and qualities required for leadership in teaching, officiating, and event organizing.

Students will have many opportunities to become actively involved in school and community events (and programs), including the Terry Fox Run, pep rallies, lunchtime intramurals, and drop-in athletic programs. A large portion of the course will focus on training and volunteering as minor officials for our athletic events throughout the year. PHE Leadership students help to foster a sense of community, pride, passion and spirit amongst the school population and community. Students will receive credit for PHE 9, 10, 11, or 12.



## OUTDOOR EDUCATION 11/12

Prerequisite: Application and Instructor Approval

Gr. 11 (MODED11) / Gr. 12 (MODED12)

Course information located under the *Specialty Programs* section of this booklet, on **page 19**.



# PHYSICAL AND HEALTH EDUCATION

## SPORTS MEDICINE 11 (YHRA-1D)

Prerequisite: successful completion of a Science 10 and PHE 10, and permission from the Instructor

This course is designed to introduce students to a variety of careers in Sports Medicine, Athletic Therapy, Physiotherapy, Occupational Therapy, Nursing, Chiropractic, Medicine, Kinesiology, Physical Education, Fire Fighting, Pro Athlete/Coaching, Paramedic, Massage Therapy, or any other of the many medical and sport sciences. With the increased number of participants involved in physical activity and competitive sport in schools and in the community, this program will help meet the increasing need for students to become familiar with the immediate care, prevention and rehabilitation of athletic injuries. This is a grade 11 course and will provide basic information on anatomy, injury prevention, recognition, assessment, rehabilitation and certification in CPR and First Aid. Students will have many opportunities for hands-on activities in a variety of labs, including athletic taping. Students must be prepared to volunteer as a sport trainer with sport teams for practicum hours (20 hours). Evaluation is based on theory and practical skills. **Course Supply Fee: \$40.00.**

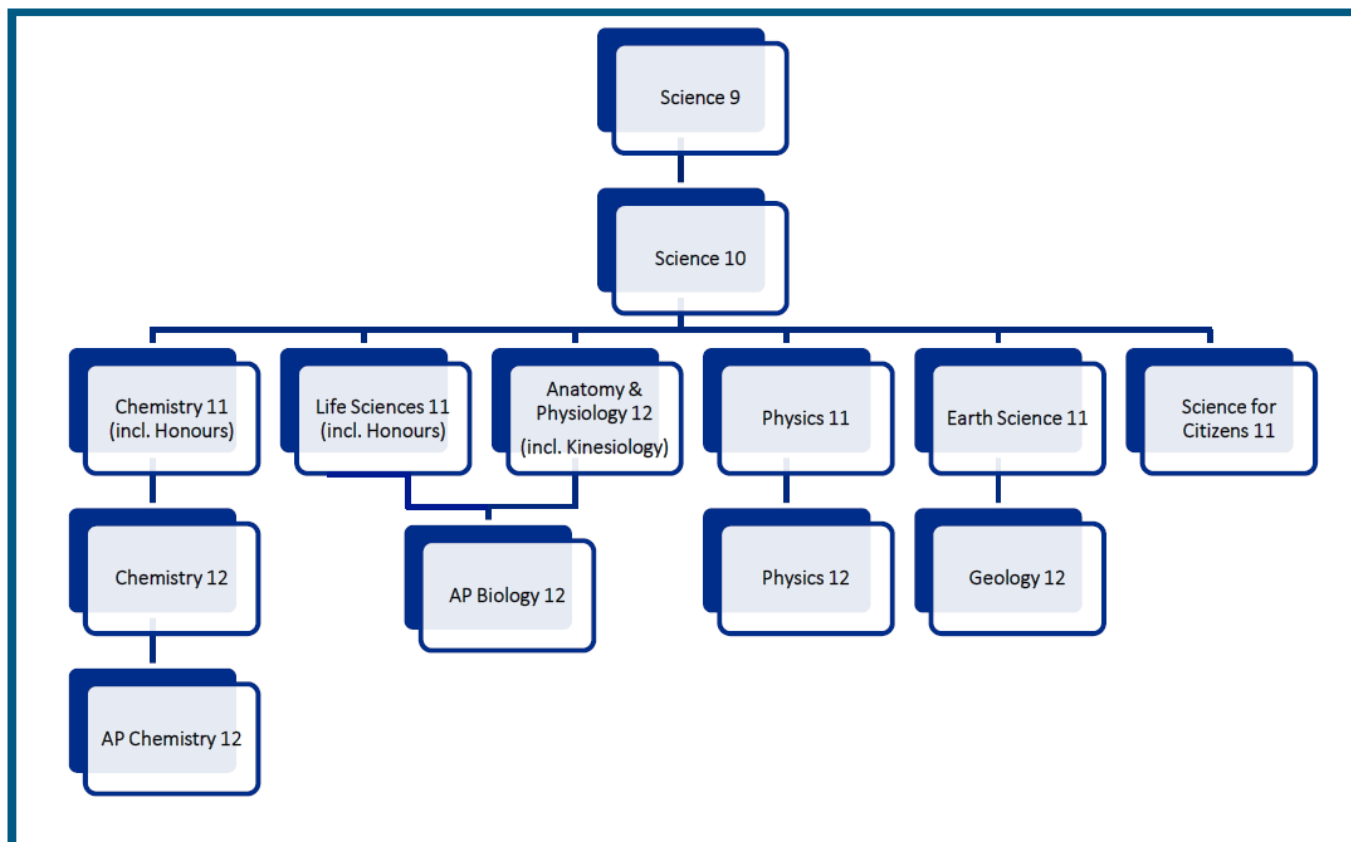
## SPORTS MEDICINE 12 (YHRA-2D)

Prerequisite: *Sports Medicine 11*

This course is designed to build on the knowledge and concepts learned in Sports Medicine 11 although the Grade 11 course is not a prerequisite. This Grade 12 course will provide students with a more detailed look at human anatomy and physiology, injury prevention and treatment, athletic program development, proper nutrition and sports psychology. Students will continue to explore future employment possibilities in the athletics and sports medicine fields. There will be many opportunities for hands-on activities and a variety of labs throughout the course, including athletic taping and sport specific program development. Students must be prepared to volunteer as a sports trainer with our athletic teams for practicum hours (20 hours). Evaluation is based on assignments, projects, tests and practical skills. **Course Supply Fee: \$40.00.**



# SCIENCES





# SCIENCES

## SCIENCE 9 (MSC--09)

Prerequisite: Science 8

The goal of the Science 9 program is to introduce students to the concepts of science using the framework of: Change, Energy, and Matter through the four principal units of Life Science, Physical Science, and Earth Science. Science 9 prepares students for secondary level science courses. Emphasis is placed on acquisition of information; a foundation is laid for courses such as Chemistry, Physics, Life Sciences and Earth Science. Lab work is a focus and students are expected to demonstrate an understanding of the scientific method.

## SCIENCE 10 (MSC--10)

Prerequisite: Science 9

Science 10 is designed to provide the foundation skills needed for students to continue a pathway in one or more of the specialized senior sciences offered in grades eleven and twelve such as Biology, Chemistry, Physics, Earth science or Science for Citizens 11. Course topics include Safety, Biology (genetics and simple patterns of inheritance), Chemistry (atomic structure, chemical formulae, bonding, and chemical reactions), Physics (energy transformations and nuclear energy) and Space science (formation of the universe and collection of astronomical data).

## EARTH SCIENCE 11 (MESC-11)

Prerequisite: Science 10 and Math 10

Earth Sciences 11 is both a relevant and a practical science course that has important applications in the real world. It provides a hands-on, discovery-based program which surveys the basic geological forces, processes, and environmental factors, of our unique and fragile planet and the natural and human forces which continue to shape it. Course topics include: Astronomy, rocks and minerals, geological forces, geological time, Earth's internal processes, plate tectonic theory, surface processes such as erosion and weathering, and the Earth's oceans and atmosphere. Earth Science 11 may be taken as a terminal senior science course fulfilling graduation requirements in science, or as a prerequisite to Geology 12. Students are evaluated using a variety of practical laboratory experiments, formal laboratory reports, projects, assignments, quizzes and tests, including a final course exam.

## GEOLOGY 12 (MGEOL12)

Prerequisite: Earth Science 11

Geology 12 begins the pathway to pursuing a diploma or degree in natural resources, or students interested in the geological history of Earth, and its processes. Careers in natural resources may include: Environmental Policy Analyst, Forester, Fisheries Manager, Geographical Information System Analyst, Land Use Planner, Natural Resources Educator, Natural Resources Manager, Recreation Resource Manager, Wildlife Habitat Specialist, or Water Conflict Manager. Geology 12 explores and expands on materials, processes, and the history of our planet, including the history of life on Earth through the fossil record. Topics include minerals, igneous rock, volcanoes, surface processes, sedimentary rock, geologic time and fossils, plate tectonics, earthquakes, earth's interior, folds and faults, metamorphic rocks, and hydrology processes. This leads to understanding Western Canada's geology and its natural resources. Earth Science 11 recommended.

## LIFE SCIENCES 11 (MLFSC11)

Prerequisite: Science 10

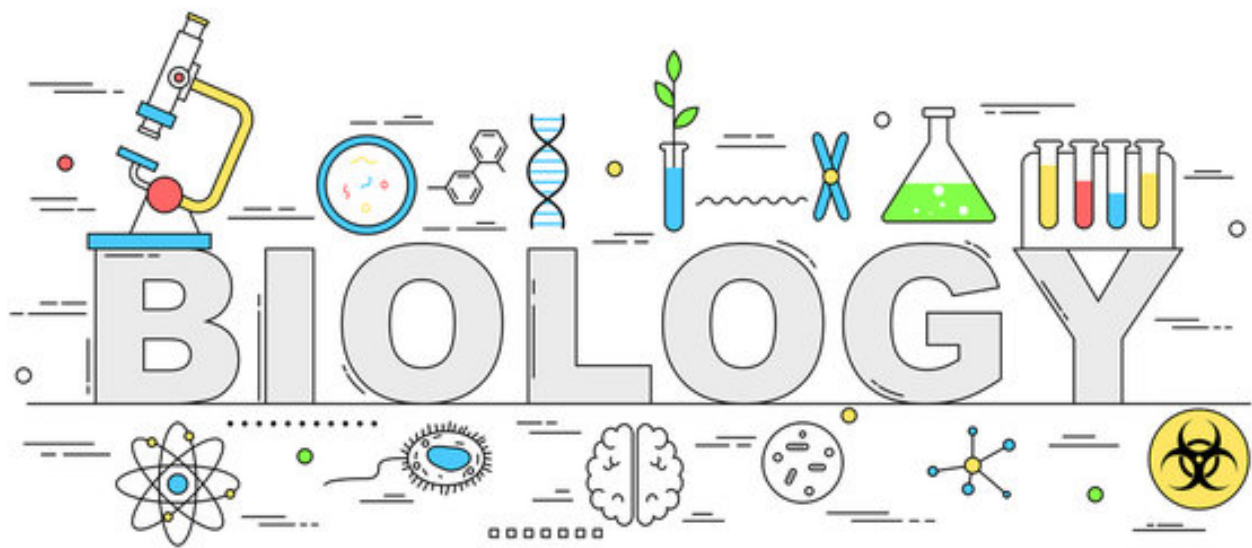
Science 10 is designed to provide the foundation skills needed for students to continue a pathway in one or more of the specialized senior sciences offered in grades eleven and twelve such as Biology, Chemistry, Physics, Earth science or Science for Citizens 11. Course topics include Safety, Biology (genetics and simple patterns of inheritance), Chemistry (atomic structure, chemical formulae, bonding, and chemical reactions), Physics (energy transformations and nuclear energy) and Space science (formation of the universe and collection of astronomical data).

## LIFE SCIENCES 11 HONOURS (MLFSC11)

Prerequisite: Science 10

Life Sciences 11 Honours includes all topics covered in regular Life Sciences 11. The honours course examines these topics in greater depth and includes a number of additional ones (ex. biochemistry). This course is designed to prepare the student for Advanced Placement Biology 12. It is strongly recommended that students enrolling in this course have an "A" or high "B" standing in Science 10.

# SCIENCES



## AP Biology 12 (ABIO-12)

Prerequisite: *Life Sciences 11 Honours, Life Sciences 11 or Anatomy and Physiology 12*

Advanced Placement Biology is the equivalent of a first-year university biology course. This course is designed to deepen students' understanding of the unifying principles of biology using the principle of inquiry to guide you through. Major topics include biochemistry, physiology, cytology, genetics, evolution, and ecology. AP Biology will be offered concurrently with Anatomy and Physiology 12. Students will be enrolled for both semesters and upon completion will receive a total of 8 credits. It is strongly recommended that students have a high "B" or "A" in Life Sciences 11 or have taken Anatomy & Physiology 12 before attempting AP Biology. Students that receive a high enough score on the College Board's AP Biology exam may also receive first year Biology credit from select post-secondary institutions.

## ANATOMY & PHYSIOLOGY 12 (MATPH12)

Prerequisite: *Science 10 (plus Chemistry 11 recommended)*

Anatomy and Physiology (formerly Biology 12) focuses on human biology, and the body's components and systems which work together to maintain homeostasis. The course is broken into two principal areas: Cell biology (cell structure, cell components, biological molecules, DNA replication, protein synthesis, cell membrane transport, and enzymes) and human biological systems (digestive system, circulatory system, respiratory system, nervous system, urinary system, and reproductive system). Students are evaluated using a variety of practical laboratory experiments, formal laboratory reports, projects, assignments, quizzes, and tests.

## ANATOMY & PHYSIOLOGY 12 KINESIOLOGY (MATPH12-K)

Prerequisite: *Science 10 or Sports Medicine 11*

Anatomy and Physiology (Kinesiology) focuses on human biology through the lens of Kinesiology and Sport. The course is broken into two principal areas: Cell biology (cell structure, cell components, biological molecules, DNA replication, protein synthesis, cell membrane transport, and enzymes) and human biological systems (digestive system, circulatory system, respiratory system, nervous system, urinary system, and reproductive system). Students are evaluated using a variety of practical laboratory experiments, formal laboratory reports, projects, assignments, quizzes, and tests.

# SCIENCES

## CHEMISTRY 11 (MCH-11)

Prerequisite: *Science 10*

Chemistry 11 serves as an introduction to the central science of Chemistry. A background in Chemistry will improve the student's appreciation of other sciences, as well as the central role Chemistry plays in society, technology, and the environment. Chemistry 11 surveys many areas of Chemistry including the study of atoms, molecules, ions, and solutions, chemical reactions, atomic theory, and organic chemistry. Students are evaluated using a variety of practical laboratory experiments, formal laboratory reports, projects, assignments, quizzes and tests, including a final course exam worth 30% of the course mark.

## CHEMISTRY 11 HONOURS (MCH--11H)

Prerequisite: minimum 75% in *Science 10* plus completion of *Foundations of Math and Pre-Calculus 10*

Chemistry 11 Honours is similar to the regular Chemistry 11 course but demands a faster pace allowing more topics to be covered with greater detail. Laboratory work is also emphasized to a greater extent from regular Chemistry 11. Additional units on Gases (Ideal Gas Law), Nuclear Chemistry, Redox reactions, and Equilibrium will be covered. This course is recommended for any student considering Advanced Placement Chemistry 12; however, it is open to all grade 11 and 12 students with a keen interest and an above average ability in math and science. \*\*\*20% of the course mark is dependent on a school final exam.

## CHEMISTRY 12 (MCH--12)

Prerequisite: *Chemistry 11*

Chemistry 12 focuses on equilibrium in chemical systems. It is a mathematically rigorous course and students are advised to have a strong foundation in Mathematics. Chemistry 12 has five principal units: Reaction kinetics, dynamic equilibrium, solubility equilibrium, acids and bases, and oxidation-reduction reactions. Students are evaluated using a variety of practical laboratory experiments, formal laboratory reports, projects, assignments, quizzes and tests, including a final course exam worth 30% of the course mark.



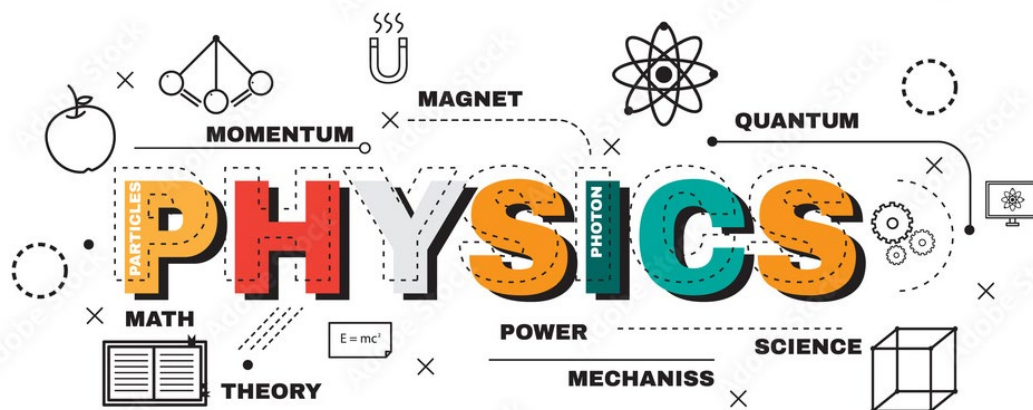
## AP CHEMISTRY 12 (ACHE-12)

Prerequisite: *Chemistry 12*

Advanced Placement Chemistry is a first-year college equivalent course in general Chemistry offered at the high school level. The course differs from the usual grade twelve Chemistry course with respect to the kind of textbook used, the degree of detail with which topics are covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by the students. Other differences appear in the number of topics treated, the time spent on the course by students, and the nature and the variety of experiments done in the laboratory. The five major topics from regular Chemistry 12 (Kinetics, Equilibrium, Solubility, Acid Base and Electrochemistry) are all developed in considerable detail along with an additional unit in Thermodynamics. Many Chemistry 11 topics are also revisited and expanded upon additional assignments on Gases (Ideal Gas Law), Nuclear Chemistry, Redox reactions, and Equilibrium will also be included. Some topics are typically assigned over the summer and/or other session breaks.

It is HIGHLY Recommended that students take Chemistry 12 in Semester 1 to be followed by AP Chemistry in Semester 2 **in the same school year**. If you are interested in AP Chemistry, but have already taken Chemistry 12, please contact the AP Teacher to discuss strategies for that situation.

# SCIENCES



## PHYSICS 11 (MPH--11)

Prerequisite: *Science 10* plus it's recommended that the student has a strong background in mathematics and should be enrolled in the pre-calculus math stream.

Physics seeks to describe our world around us by using the languages of Mathematics and Science. Students will gain a better understanding of how things work and why physical objects behave the way they do. Physics 11 is suitable for students who have a particular interest in Physics or who plan to continue in Science or Engineering.

## SCIENCE FOR CITIZENS 11 (MSCCT11)

Prerequisite: *Science 10*

Science for Citizens focuses on modern scientific investigative techniques and how science impacts our daily lives. Students will conduct investigations into aspects of health science, technology, and pseudo-science. Also emphasized is the practical side of science including WHMIS certification and forensic science. Finally, the course covers an in-depth look at Global Science, including extreme weather events, climate change, energy generation, and sustainability of resource.



## PHYSICS 12 (MPH--12)

Prerequisite: *Science 11*

Physics 12 continues the work started in Physics 11, seeking to describe our world around us by using the languages of Mathematics and Science. Students will gain a better understanding of how things work and why physical objects behave the way they do. Physics 12 is suitable for students who have a particular interest in Physics or who plan to continue in Science or Engineering. Physics 12 involves graphical methods, vectors, kinematics, dynamics, work, energy, and power, momentum, equilibrium, circular motion, gravitation, electrostatics, and electromagnetism.

## CANINE FOUNDATIONS 11

Prerequisite: None

Check out the *Specialty Programs* section of this booklet for more information on this unique and fascinating course!

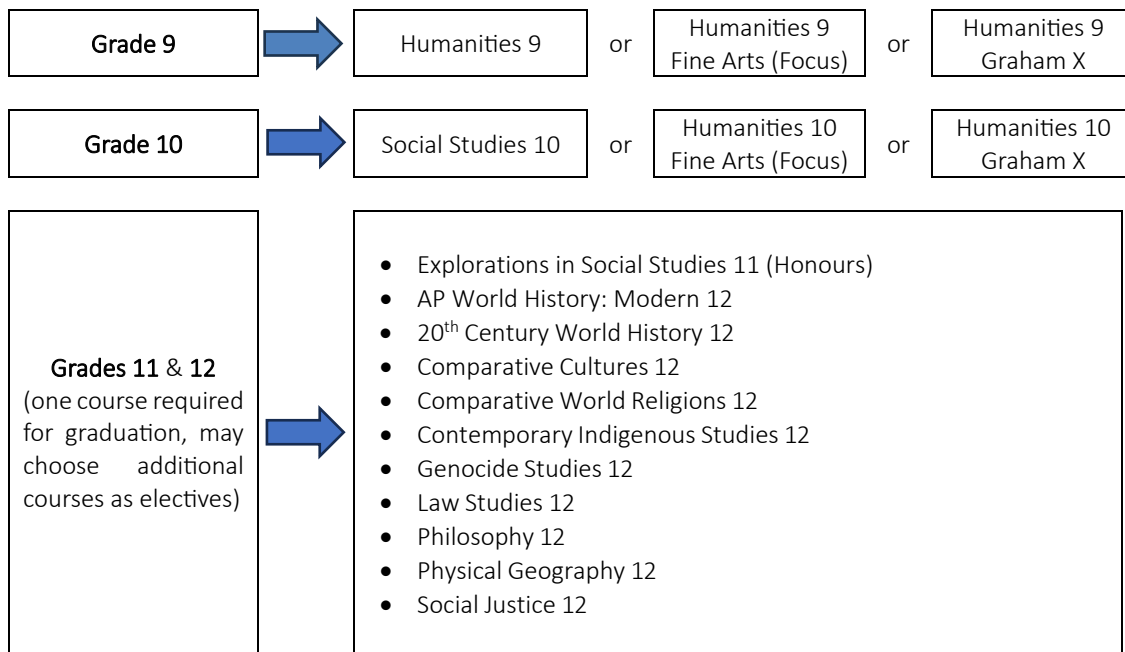
This half day / one semester course covers the following:

- [Science for Citizens](#) (4 Credits)
- [Work Experience](#) (4 Credits)
- [Workforce Training Certificate](#) (4 Credits)



# SOCIAL STUDIES

The eleven courses offered in the GW Graham Social Studies department are anchored in the creative and critical thinking skills of historical contexts. Recurrent themes include continuity and change, cause and consequence, and historical significance. Students will engage with primary and secondary sources in order to take on historical perspectives and appreciate the ethical dimensions of past events and beliefs.



## HUMANITIES (SOCIAL STUDIES) 9 (MSS--09)

Prerequisite: Social Studies 8

This program combines all the learning outcomes of English 9 and Social Studies 9 in a blended, cross-curricular format. Students will comprehend and make connections to a variety of texts, as well as create their own texts and learn to communicate effectively in a wide range of formats and styles. Students will also learn about political and technological revolutions, the impacts of imperialism and colonialism, and the rise of national identities and nation states, with a focus on these changes on Canada.



## HUMANITIES (SOCIAL STUDIES) 9 FINE ARTS (MSS--09FA)

Prerequisite: Social Studies 8

This program combines all the learning outcomes of English 9 and Social Studies 9 in a blended, cross-curricular format. Students will comprehend and make connections to a variety of texts, as well as create their own texts and learn to communicate effectively in a wide range of formats and styles. Students will also learn about political and technological revolutions, the impacts of imperialism and colonialism, and the rise of national identities and nation states, with a focus on these changes on Canada. Students will have opportunities to explore these outcomes through an artistic and cross-curricular lens. This program focuses on creative expression, project based learning, and artistic collaboration. It is a great fit for “outside of the box” thinkers, and those looking for opportunities to challenge themselves by demonstrating their learning in different ways. It is strongly encouraged that students interested in Humanities Fine Arts also be enrolled in a visual performing arts course or be involved in extra-curricular visual or performing arts activities.

# SOCIAL STUDIES

## SOCIAL STUDIES 10 (MSS--10)

Prerequisite: Any *Social Studies 9*

Social Studies 10 explores the story of Canada and the World from 1914 to the present. Throughout the course, students will become familiar with active Canadian citizenship, explore Canada's role in international and domestic conflicts, discover the development of Canada's autonomy and nationalism, challenge Canada's narrative through historical and contemporary injustices, and learn about the development of Canada as an inclusive and multicultural society. This course will allow students to develop a sense of their own place in Canada's past and present, and their role in shaping the future.



## HUMANITIES (SOCIAL STUDIES) 10 FINE ARTS (MSS--10FA)

Prerequisite: Any *Social Studies 9*

This program combines all the learning outcomes of Composition/Focused Literacy Studies 10 and Social Studies 10 in a blended, cross-curricular format. Students will comprehend and make connections to a variety of texts, as well as create their own texts and learn to communicate effectively in a wide range of formats and styles. Students will also learn about the development of Canada in the twentieth century, including its growing involvement in international affairs. Significant social, political and economic changes redefined the character of the nation. Students will have opportunities to explore these outcomes through an artistic and cross-curricular lens. This program focuses on creative expression, project based learning, and artistic collaboration. It is a great fit for "outside of the box" thinkers, and those looking for opportunities to challenge themselves by demonstrating their learning in different ways.

It is strongly encouraged that students interested in Humanities Fine Arts also be enrolled in a visual or performing arts course or be involved in extra-curricular visual or performing arts activities.

## ~~EXPLORATIONS IN SOCIAL STUDIES 11- HONOURS (MEPSS11-H)~~

Prerequisite: *Social Studies 10* with a B or Higher

This survey course will explore four distinct disciplines within the field of Social Sciences. Topics may include: human geography, world religions, social justice issues, urban studies, political studies, philosophy, Asian studies, or political studies. Students who take this course should commit to taking a number of grade 12 courses in Social Studies before graduation. Furthermore, a minimum B standing in Social Studies 10 is required for admission to the program.

## 20TH CENTURY WORLD HISTORY 12 (MWH--12)

Prerequisite: *Social Studies 10*

This course explores the complex interactions between nationalism and imperialism, including the characteristics of communist and fascist authoritarian regimes. Religious, cultural and ethnic conflicts form a significant part of the course, including military conflicts on a regional and global scale.

## COMPARATIVE CULTURES 12 (MCML12)

Prerequisite: *Social Studies 10*

This course addresses the various definitions of culture, and how these have changed over time. Issues of power, authority and conflict within and between different cultures will be addressed, as well as the various value systems that underpin the wide range of cultural expressions in art, music, architecture, literature and religion.

## COMPARATIVE WORLD RELIGIONS 12 (MWRL-12)

Prerequisite: *Social Studies 10*

Comparative World Religions 12 is a comprehensive and objective study of the major religions that have played a role in human history. Throughout the ages, religions from around the world have shaped the political, social, and cultural aspects of societies. Students will trace the major developments in these religions and explore their relationships with social institutions and culture. The course will discuss some of the similarities and differences among the major religions and examine the connections and influences they have. Through the study of religions and cultures other than their own, students will be able to broaden their view of the world and break through the barriers of misunderstanding, prejudice, and discrimination.

# SOCIAL STUDIES



## **CONTEMPORARY INDIGENOUS STUDIES 12** (~~MINST12~~)

Prerequisite: Any *Social Studies 10*

This course examines the identities and world views of Indigenous peoples throughout the world. Issues of resilience and survival in the face of colonialism form a key part of the course. The question of how to restore balance through healing and reconciliation will be addressed.

**COURSE CANCELLED**

## **GEONOCIDE STUDIES 12** (MGENO12)

Prerequisite: Any *Social Studies 10*

This course addresses the fundamental ethical dilemma of why humans systematically murder other humans. By comparing and contrasting the similarities and differences between genocidal events, students will gain insights into the political, economic, and socio-cultural conditions that lie at the core of such atrocities and gain a deeper understanding of responses to Genocide.

## **LAW STUDIES 12** (MLST-12)

Prerequisite: *Social Studies 10*

This course will provide a deeper understanding of the Canadian legal system. Key areas of study are the foundations of our legal system, criminal law, civil law, and family law. Students will also learn their rights and responsibilities as citizens of both Canada and the World.

## **PHILOSOPHY 12** (MWH--12)

Prerequisite: *Social Studies 10*

Philosophy 12 explores the ways we think, learn, believe and exist. As a class, we will examine the fundamental nature of knowledge, reality, and existence. To do this, we will develop the tools that allow us to investigate and understand our world and to foster an understanding of different ways of thinking. Students will think, talk, and write in order to examine the topics that help us question our assumptions and better understand our beliefs. We will develop our critical, analytical, and problem-solving skills in the context of a multitude of questions. Considering how many philosophical questions deal with issues without definitive answers, we will also explore logic and reasoning to help us arrive at informed conclusions. Particular areas of focus include methods of reasoning and argument in philosophy, metaphysical theories about the nature of reality, theories about knowledge and truth, social and political philosophy, and theories of morality, ethics, and beauty.

## **PHYSICAL GEOGRAPHY 12** (MPGEO12)

Prerequisite: *Social Studies 10*

This course features three broad areas of inquiry: physical geography, weather and climate, and environmental sustainability. As geographers, students will draw on interdisciplinary skills from math, science and the humanities to gain deeper insight into our physical world, and how humans can have an effect on the world around them.



# SOCIAL STUDIES

## SOCIAL JUSTICE 12 (MSJ--12)

Prerequisite: *Social Studies 10*

Social Justice 12 promotes students' awareness of social injustice, to encourage them to analyze situations from a social justice perspective, and to provide them with the knowledge, skills, and an ethical framework to advocate for a socially just world. This course provides an opportunity for students to look critically at the values and diversity of our community and nation. Students will examine inequality and injustice based on various social factors while investigating the causes and the consequences of injustice. Social Justice 12 includes an emphasis on action, providing opportunities for students to examine models of social change, and to engage in their own initiatives to effect social change. Social Justice is a participatory course requiring self-analysis, social analysis, respect for diversity, a willingness to take action, and a willingness to respectfully discuss controversial issues.

## Social Justice

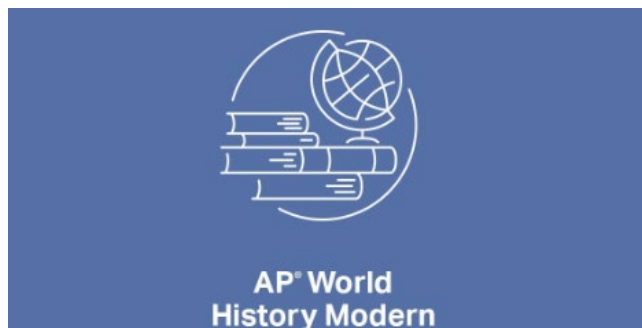


## AP World History: Modern 12 (AWH--12)

Prerequisite: *Social Studies 10*

AP World History: Modern is a college-level History course that examines the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. This course follows the curricular requirements outlined by The College Board and provides opportunities for students to build essential skills in evaluating sources, analyzing claims, evidence, and reasoning, contextualizing and making connections between historical developments, and building claims or theses that can be supported in writing.

Like other AP courses, AP World History: Modern is both intellectually stimulating and demanding. Students will be introduced to material that requires deep consideration, mature work habits, and independent reading and study. Class participation and regular attendance is a requirement for success in this fast-paced course. Students who take AP World History: Modern will have an opportunity to write an optional exam in May at the cost of approximately \$135 per student. If participating students score high enough on the exam, they will be granted college-level credits that can be used toward the completion of an introductory college course in modern world history. The exam mark does not affect students' school-based mark in any way. Further course information can be found at [apstudents.collegeboard.org/courses/ap-world-history-modern](https://apstudents.collegeboard.org/courses/ap-world-history-modern).





# TECHNOLOGY EDUCATION

## ELECTRONICS & ROBOTICS 10 (MTEAR10)

Prerequisite: minimum C+ in Math 8 and 9 recommended

Your engineering challenge – to build and program a VEX EDR robot to compete in various class tournaments. You'll go through the entire design, program and build process of your robot while learning the principles of electronics and robotics. There is a major coding component throughout the course – a robot isn't a robot unless you can program it to behave without a driver! You will learn how to code instructions for various sensors and motion. Although you will be working with a partner, each student will be responsible for and tested on all aspects of their robot. It's a lot of work, but also a lot of fun. This course is recommended for students who wish to take Robotics 11.

## ROBOTICS 11 (MTROB11)

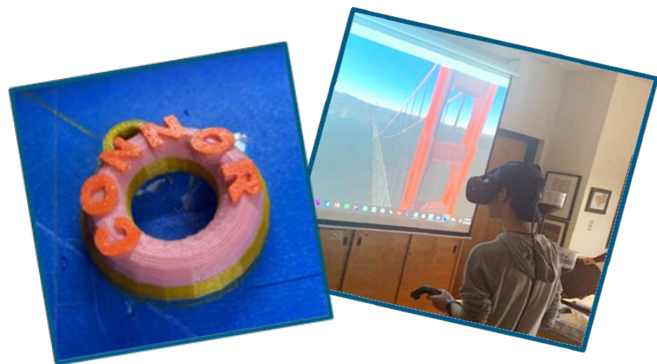
Prerequisite: *Electronics and Robotics 10*

In Electronics and Robotics 11, students will apply coding, mechanical and problem-solving skills learned in Robotics 10 to new challenges focused on building robotic systems from scratch. Students will build a strong foundation in working with electronics, microcontrollers, sensors, drive systems, while constructing a variety of robotics projects. Students will use various tools and machinery, and 3D printing to bring their creations to life, solving problems and completing challenges designed to engage them with rich learning.

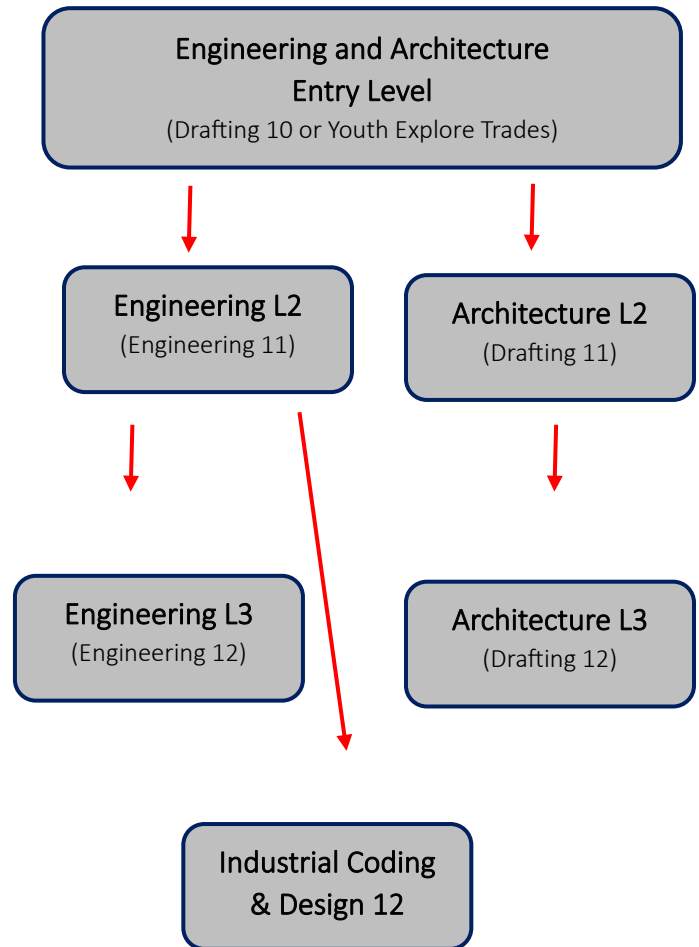
## ROBOTICS 12 (MTROB12)

Prerequisite: *Robotics 11*

Robotics 12 builds upon knowledge and skills learned in Robotics 11. Senior robotics students will work with computer design and coding software, and engineering tools and machinery to bring to life more complex robotics projects. Students will be working in a more inquiry based, self-paced environment.



## Drafting and Engineering Path



## ENGINEERING & ARCHITECTURE ENTRY LEVEL (MTDRF10)

Prerequisite: None

Engineering and Architecture Entry Level is an introductory course where students will learn the basics of technical, engineering, and architectural drawing with Computer Aided Drafting (CAD) software including AutoCAD and Fusion360. Students will learn through conventional drafting exercises, as well as several projects aimed at progressing their design skills. Projects include a Laser cut phone stands and boxes, 3D printing projects, and a cabin floor plan. Skills learned in this course can be applied to a number of future courses and occupations: Architecture, engineering, interior design, and trades to name a few.

# TECHNOLOGY EDUCATION

For information about a range of trades courses available to SD 33 students, see pages 72 to 81

## ENGINEERING L2 (MENR-11)

Prerequisite: *Engineering and Architecture – Entry Level*

In Engineering L2 students will explore the world of engineering through engaging projects in a hands-on, high-tech environment. Students will learn basics in mechanical, structural, and electrical engineering while applying theory concepts to many design projects. Design and manufacturing are key components of this course and students will get a solid foundation while working with design software, and modern manufacturing machinery like CNC machines and laser cutters. Skills learned in this course can lead into careers in manufacturing, design, and various fields of Engineering.

## ENGINEERING L3 (MENR-12)

Prerequisite: *Engineering L2*

Engineering L3 is a senior level course where students will advance their learning from Engineering L2 through more advanced design and manufacturing projects. Students will work through several inquiry-based projects where they will design solutions to problems, while applying engineering tools and concepts.

## INDUSTRIAL CODING & DESIGN (MTICD12)

Prerequisite: *Engineering and Architecture – Entry Level*

In Industrial Coding and Design 12, students will specialize in designing and programming parts, and operating CNC machine equipment. Our school has a computer-controlled laser, 3D printers, plasma cutter, routers, lathe, and CNC milling machine and students will be creating projects to manufacture using these tools. Students will be designing using 2D and 3D modeling software, programming toolpaths, and setting up and operating tools. These skills can lead directly to industry jobs in our community.

## ARCHITECTURAL DRAFTING L2

(MTDRF11)

Prerequisite: *Engineering and Architecture – Entry Level*

Engineering and Architecture Entry Level is an introductory course where students will learn the basics of technical, engineering, and architectural drawing with Computer Aided Drafting (CAD) software including AutoCAD and Fusion360. Students will learn through conventional drafting exercises, as well as several projects aimed at progressing their design skills. Projects include a laser cut phone stand and boxes, 3D printing projects, and a cabin floor plan. Skills learned in this course can be applied to a number of future courses and occupations: Architecture, engineering, interior design, and trades to name a few.

## ARCHITECTURAL DRAFTING L3

(MTDRF12)

Prerequisite: *Architectural Drafting L2*

In this senior level course students will work through major architectural projects, advancing their skill and knowledge in structure and design.



# TECHNOLOGY EDUCATION

## METALWORK 10 (MTMET10)

Prerequisite: None

This entry-level course is designed to introduce students to metalwork's fundamental skills. Students will be introduced to multiple machines while processes and skills are developed, such as hand tools, power tools, sheet metal fabrication, welding and machining and introduction to CNC plasma cutting. After developing the foundation skills and knowledge, and completing a series of smaller labs and projects, students will build a project according to assigned plans and specifications.

## METALWORK 11 (MTMET11)

Prerequisite: *Metalwork 10*

Metalwork 11 is a course that builds off of the entry-level metalwork course with more complex and challenging projects. Students will create projects from a set of drawings while developing their independence and critical thinking skills. Students will use the lathe mill machine, various welding techniques, and CNC plasma cutting. Students will also be introduced to precision measurement and tool maintenance.

## METALWORK 12 (MTMET12)

Prerequisite: *Metalwork 11*

The grade 12 Metalwork course takes the skills learned in the entry-level and grade 11 metalwork courses and now focuses on Design, prototyping and problem-solving skills. Students taking this course must be competent in all machine tool processes, precision measurement and shop safety. This course will also have an added emphasis on employability skills.

## MACHINING AND WELDING 12 (MTMAW12)

Prerequisite: *Metalwork 12* and permission of Instructor

Machining and Welding 12 is an advanced metalwork course where students will design their projects using all of the skills previously learned from their past metalwork classes. Students are expected to create their own set of professional drawings and instructions as they work independently on their own to build their project with little help from the teacher.



## WOODWORK 10 (MWWK-10)

Prerequisite: None

Woodwork is an introductory course into the field of woodworking. Students will gain basic knowledge in working with hand tools and power tools appropriate for their project work. Students will explore units in safety, wood identification, hand tools, power tools, project management and design & creativity.

## WOODWORK 11 (MWWK-11)

Prerequisite: *Woodwork 10* or permission of Instructor

This course further builds on student's knowledge of the basic hand and power tools used in the field of woodworking. Students will gain new knowledge into fine woodworking techniques and will have the opportunity to design and build projects of their choosing. Students may also work on projects in a modified mass production opportunity designed to have students working together to complete a project for the school or community.

## WOODWORK 12 (MWWK-12)

Prerequisite: *Woodwork 10* or permission of Instructor

This course is an intermediate wood manufacturing course. Students will be introduced to intermediate woodworking tasks such as machine cut dovetail corners and raised panel construction. Projects will be made from a variety of materials including oak plywood, M.D.F., and solid stock. Cabinet and drawer construction is taught with an emphasis on quality and safety. Students will have the opportunity to meet the course requirements through a variety of self-directed personal projects as well as mandatory skill building exercises. Note: cost of materials only applies to projects that are not needed to meet course requirements.

## FURNITURE AND CABINETRY 12 (MTFAC12)

Prerequisite: *Woodwork 12* and permission of Instructor

This course is an advanced wood manufacturing course that builds on the skills and knowledge learned in previous courses. It allows students to develop skills in cabinetry and furniture design/production and provides a good base skill level for a student to enter a post-secondary trades program. Students will be graded on established criteria of craftsmanship. The course work is largely self-directed, so students must be self-motivated in order to succeed. The cost of materials may vary depending on the project and quality of wood students choose. Projects are self-directed for the most part and should be reasonably challenging for this skill level.

# VISUAL & PERFORMING ARTS: FINE ARTS

## ART 9 (MVA--09)

Prerequisite: None

Art 9 builds on the concepts and skills introduced in previous art courses but is also suitable as an introductory course for students new to art. This course provides the opportunity to explore the visual arts through a variety of 2D and 3D media. Students will create personally meaningful works of art, collaborate with others, and engage in more complex and challenging art processes. Safety, proper use of materials, and studio space will be covered. Art 9 is strongly recommended for students who plan to take further Visual Art courses in grades 10-12.

## ART STUDIO – INTRO (MVA10)

Prerequisite: Previous Art Courses Recommended but not Required

Art builds on the concepts and skills introduced in previous art courses but is also suitable as an introductory course for students new to art. This course provides the opportunity to explore the visual arts through a variety of 2D and 3D media. Students will create personally meaningful works of art, collaborate with others, and engage in more complex and challenging art processes. Safety, proper use of materials, and studio space will be covered. Introduction to Art is strongly recommended for students who plan to take further Visual Art courses in the future.

## ART STUDIO – INTERMEDIATE (MVA11)

Prerequisite: Art 9, Art Studio 10, or Art Studio–Intro Recommended

This course allows students to continue to work with a variety of media, both 2D and 3D. In addition, students will be learning a variety of image development strategies to further develop critical thinking and technical skills as they apply to the visual arts. The projects challenge students to create authentic images and work toward a personal style of expression. Students who have not taken previous art courses are encouraged to complete Introduction to Art before registering for this course. This course is recommended for students who plan to take further Visual Arts courses at the post-secondary level.

## ART STUDIO – ADVANCED (MVA12)

Prerequisite: Art Studio – Intermediate Recommended

This course allows students to continue to work with a variety of media, both 2D and 3D. In addition, students will be learning a variety of image development strategies to further develop critical thinking and technical skills as they apply to the visual arts. The projects challenge students to create authentic images and work toward a personal style of expression. This course is recommended for students who plan to take further Visual Arts courses at the post-secondary level.





# VISUAL & PERFORMING ARTS: FINE ARTS

## MEDIA ARTS 10 (MVAM-10)

Prerequisite: None

Do you want to become a Photoshop pro? Do you love to use computer technology to blend & create digital images? Are you interested in digital graphic design or digital art? Learn about the elements of design. Use Photoshop, Illustrator and InDesign to produce digital images, art and publications – online and as print.

## MEDIA ARTS 11/12

Prerequisite: *Media Arts 10*

**Gr. 11 (MVAMT11) / Gr. 12 (MVAMT12)**

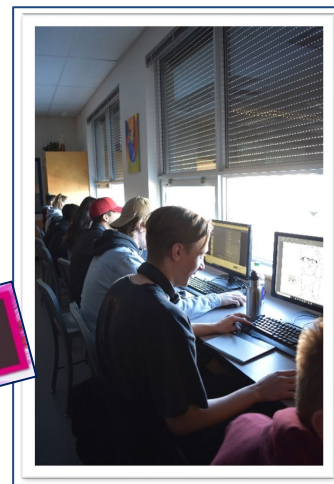
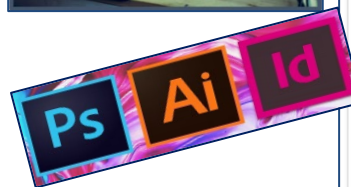
Do you want to become a Photoshop pro? Do you love to use computer technology to blend & create digital images? Are you interested in digital graphic design or digital art? In these courses you will build on your learning from Media Design 10 and learn more about the elements of design. Use Photoshop, Illustrator and InDesign to produce digital images, art and publications – online and as print. What you study will depend on your starting point for the course.

## YEARBOOK 10-12 – OT

Prerequisite: Permission of Instructor

**Gr. 10 (MYCCT-OF) / Gr. 11 (MGRPR11) / Gr. 12 (MGRPR12)**

This course is for students who have an interest in producing the school's yearbook. Students will have a variety of experiences in writing, digital photography, drawing and desktop publishing. Upon completion of the yearbook, students may study an option in photography, graphic design, desktop publishing or a combination of the three. An effort will be made to balance this class with representatives from Grades 10 through 12. Students taking this elective **MUST** be able to work independently, meet deadlines, and plan efficiently to ensure that their spreads are done in a creative and timely manner. You should be a confident individual who has the ability to stand up and take a picture. There is also an expectation that students will use time outside of class, particularly at the key deadlines in the first three terms. Yearbook will be offered out of the timetable. The class meets afterschool two times per week.



## PHOTOGRAPHY 11 – INTRO (MVAPH11)

Prerequisite: None

This course will introduce students to the basic functions and operations of the digital camera. This is a Visual Arts course, where students will use the camera as a creative tool to document and express their world, while working with composition, elements and principles of design, as well as basic editing tools. Students will be working primarily with digital photography; however, alternative processes may also be included. Discussion and presentation of work will be a part of this course. This course covers basic information necessary for success in Intermediate Photography.

## PHOTOGRAPHY 12 – INTERMEDIATE (MVAPH12)

Prerequisite: *Photography 11*

This course will build on skills and processes introduced in Photography 1. Students will be encouraged to explore their camera functions in more depth as well as experiment with alternative processes, camera and studio equipment, editing and presentation. Students should be willing to develop their own areas of interest for further exploration and be ready to work independently.



# VISUAL & PERFORMING ARTS: FINE ARTS

## CERAMICS & SCULPTURE - INTRO (MVAC-10)

Prerequisite: None

Explore the creative process through 3D materials. This course introduces students to work in 3D art media with a focus on clay. Hand building, glazing, firing, and wheel work will be introduced. Other media, such as paper-mache, wire, paper sculpture, or casting may be explored. Studio and material safety will be covered. This course is strongly recommended for students intending to further their art or animation studies at the postsecondary level. Previous art experience is not required.

## CERAMICS & SCULPTURE - INTERMEDIATE (MVAC-11)

Prerequisite: *Ceramics & Sculpture – Intro*

This course is for students who have completed Introduction to Ceramics and Sculpture and want to pursue further study in the art of clay. This course builds on the skills and knowledge from Introduction to Ceramics and Sculpture, with a focus on more advanced hand building, sculpture, or proficiency on the wheel, as well as glazing and firing of work. Students will be able to focus on more independent projects with the opportunity to undertake extended studio projects that focus on skills and techniques learned from previously taken art courses. A variety of 3D media will be explored. Students who plan to at end post-secondary art programs are encouraged to work on projects to be included in their portfolios.

## CERAMICS & SCULPTURE - ADVANCED (MVAC-12)

Prerequisite: *Ceramics & Sculpture – Intro*

This course is for students who have completed Introduction to Ceramics and Sculpture and want to pursue further study in the art of clay. This course builds on the skills and knowledge from Introduction to Ceramics and Sculpture, with a focus on more advanced hand building, sculpture, or proficiency on the wheel, as well as glazing and firing of work. Students will be able to focus on more independent projects with the opportunity to undertake extended studio projects that focus on skills and techniques learned from previously taken art courses. Students will be able to develop a body of work suitable for a portfolio in this course. A variety of 3D media will be explored. Students who plan to at end post-secondary art programs are encouraged to take this course.



## DRAWING & PAINTING - INTERMEDIATE (MVAD-11)

Prerequisite: *Art Studio – Intro and Intermediate* recommended

This course continues to build on the skills and knowledge introduced in Intermediate Art Studio and is recommended for students who intend to continue in an art or design related field at the post-secondary level. Development of work appropriate for inclusion in portfolios will be encouraged. Students will be required to present and discuss their work related to both technique and concept. Larger scale work, opportunities to work with a variety of 2D media and development of works appropriate for inclusion in portfolios will be encouraged. Students will also enjoy open-ended projects that provide freedom to explore one's own ideas and style. This course is valuable for students who are interested in art as a hobby and those thinking of a future career in the arts.

## DRAWING & PAINTING - ADVANCED (MVAD-12)

Prerequisite: *Art Studio – Intro and Intermediate* recommended

This course continues to build on the skills and knowledge introduced in Drawing and Painting – Intermediate and is recommended for students who intend to continue in an art or design related field at the post-secondary level. Students will work on developing an artistic style and select media that exemplifies this style. Development of work appropriate for inclusion in portfolios will be encouraged. Students will be required to present and discuss their work related to both technique and concept. Students will also enjoy open-ended projects that provide freedom to explore one's own ideas and style. This course is valuable for students who are interested in art as a hobby and those thinking of a future career in the arts.

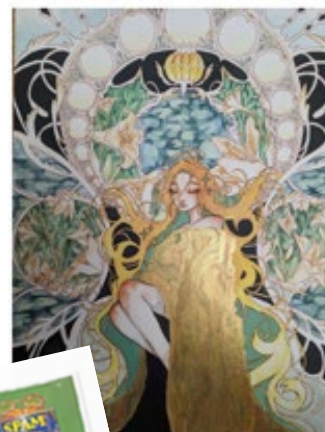
## ADVANCED PLACEMENT COURSES

- AP 2-D Art and Design 12 (A2DP-12)
- AP 3-D Art and Design 12 (A3DP-12)
- AP Studio Art: Drawing 12 (ASAD-12)

Prerequisites: Intro and Intermediate Art courses are strongly recommended.

The advanced placement art courses are designed to prepare students for college, give them the necessary studio experience to nurture their creativity, and give them the opportunity to earn college credit. We offer portfolios in Drawing, 2D Design and 3D Design. Students work with the instructor to choose which portfolio option will be the best suited for them. Students must earn a score of 3 or higher on the student portfolio assessment to be eligible to receive college credit. For these portfolios, students are asked to demonstrate inquiry through continued investigation and mastery of two portfolio sections: selected works and sustained investigation. This portfolio will be developed throughout the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, revision, and thoughtful written responses guided by questions.

For more information about AP Art programs, go to:  
<http://apcentral.collegeboard.org/courses/ap-2-d-art-and-design>





# VISUAL & PERFORMING ARTS: MUSIC

## CHOIR 9-12

Prerequisite: None

Gr. 9 (MMU-09CH) / Gr. 10 (MMUCH10)

Gr. 11 (MCMCC11) / Gr. 12 (MCMCC12)

Choir is a performance course that will aid students in developing proper singing habits. Students will work toward mastering and performing a wide variety of challenging vocal music. Home practice is required. Students learning will be assessed through participation, class performance, concert performances, assignments, and overall effort. All performances are mandatory.

## CONCERT BAND 9/10

Prerequisite: Band 8 or Permission of Instructor

Gr. 9 (MMU--09) / Gr. 10 (MMUCB 10)

Band 9/10 is a performance course for students who would like to continue to develop their abilities on their chosen instrument. The ensemble will work on a wide variety of music to help expand the skills and concepts learned in previous levels. Students will work toward mastering and performing a wide variety of challenging band music. Home practice is required.

Some co-curricular rehearsals may also be required. Students will be assessed through performance tests, class performance, class participation, at endance, concerts, assignments, practicing, and general effort. All performances are mandatory.

## CONCERT BAND 11/12

Prerequisite: *Band 9 or 10* or Permission of Instructor

Gr. 11 (MIMCB11) / Gr. 12 (MIMCB12)

Band 9/10 is a performance course for students who would like to continue to develop their abilities on their chosen instrument. The ensemble will work on a wide variety of music to help expand the skills and concepts learned in previous levels. Students will work toward mastering and performing a wide variety of challenging band music. Home practice is required.

Some co-curricular rehearsals may also be required. Students will be assessed through performance tests, class performance, class participation, at endance, concerts, assignments, practicing, and general effort. All performances are mandatory.



## GUITAR – INTRODUCTORY 10-12

Prerequisite: None

Gr. 10 (MMUGT10-I)

Gr. 11 (MIMG-11-I)

Gr. 12 (MIMG-12-I)

Beginner Guitar 10–12 is a course designed to introduce students to guitar basics. This guitar course will teach you about parts of the guitar, guitar care, tuning, finger picking, strumming, chords, tabs and some basic music theory. This class is suited for the absolute beginner who has never picked up a guitar before and wishes to begin playing. There is an expectation that students will need to perform to demonstrate their progress and ability. It is highly recommended that students taking this course have a guitar at home for practice. Singing will also be encouraged as the class progresses.



## ~~GUITAR – INTERMEDIATE 10-12~~

Prerequisite: Knowledge of Open Cords, Basic Music Theory, and the Ability to Play Single Note Melodies

Gr. 10 (MMUGT10)

Gr. 11 (MIMG-11)

Gr. 12 (MIMG-12)

Intermediate Guitar is a class where students will learn more complex theory and techniques to build on previous guitar knowledge. It is highly recommended that students have either some guitar experience or have taken Introductory Guitar. Guitar will build on previous knowledge, expanding on music theory, techniques, chords, and strumming. This course will also introduce the students to other topics including P.A. equipment, soundchecks, and will encourage students to use their guitar skills to play and make music with others. It is expected that students in Guitar will perform to demonstrate their progress. Singing will be encouraged and depending on availability students may also be expected to play at a limited number of school functions. It is also recommended that students have a guitar at home for practice.

**COURSE CANCELLED**



# VISUAL & PERFORMING ARTS: **MUSIC**

## **INSTRUMENTAL SURVEY 11/12**

Prerequisite: *Band 10* or *11* and Permission of the Instructor

**Gr. 11 (YVPA-10) / Gr. 12 (YVPA-20)**

Students will be enrolled in a younger band class, learning new instruments of their choice and working with younger students. Students may also assume a teaching role. Students will be assessed through performance tests, class participation, concerts, practicing, and general effort. All performances are mandatory.

## **(JR) JAZZ BAND 9-12 – OT**

Prerequisite: Application. Must Be Taken Concurrent with *Concert Band*

**Gr. 9 (MMU--09JB) / Gr. 10 (MMUJB10-OT)**

**Gr. 11 (MIMJB11-OT) / Gr. 12 (MIMJB12-OT)**

Jazz Band is a performance course with the students developing skills in the jazz idiom. The ensemble will study a wide variety of music including Swing, Funk, Latin, Rock, Pop, etc. **This course is held outside the timetable on Mondays from 2:40-4:00 p.m. and Wednesdays from 7:00–8:00 a.m.** Students will be assessed through performance tests, class participation, concerts, assignments, practicing, at endance, and general effort. All performances are mandatory.

## **(SR) JAZZ BAND 10-12**

Prerequisite: Application and/or Audition. Must Be Taken Concurrent with *Concert Band*

**Gr. 10 (MMUJB10) / Gr. 11 (MIMJB11) / Gr. 12 (MIMJB12)**

Jazz Band is a performance course with the students developing skills in the jazz idiom. The ensemble will study a wide variety of music including Swing, Funk, Latin, Rock, Pop, etc. Students will be assessed through performance tests, class participation, concerts, assignments, practicing, at endance and general effort. All performances are mandatory.

## **MUSIC PRODUCTION & RECORDING ARTS 11/12**

Prerequisite: None

**Gr. 11 (MMUCP11) / Gr. 12 (MMUCP12)**

Music Production and Recording Arts 12 will focus on using technology to compose and create music. Students will get hands on experience with the software and hardware being used in professional music studios and have the opportunity to explore and create in a variety of genres of music.

## **ORCHESTRA 9-12**

Prerequisite: None

**Gr. 9 (MMU—09O) / Gr. 10 (MMUOR10)**

**Gr. 11 (MMUOR11) / Gr. 12 (MMUOR12)**

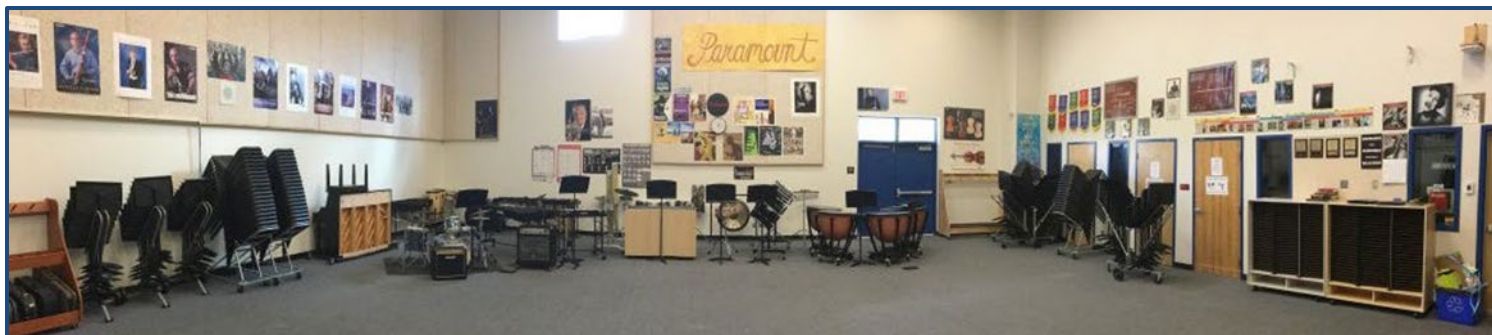
Music Production and Recording Arts 12 will focus on using technology to compose and create music. Students will get hands on experience with the software and hardware being used in professional music studios and have the opportunity to explore and create in a variety of genres of music.

## **PEP BAND 10-12 – OT**

Prerequisite: Must Be Taken Concurrent with *Concert Band*

**Gr. 10 (MMUCM10) / Gr. 11 (MMUCM11) / Gr. 12 (MMUCM12)**

This is a performance-based course where students will perform at athletic events (football game, basketball games, tournaments, etc), school functions and community events. Students will perform a variety of rock and pop music and will be assessed through in class playing, performances, assignments, musicianship, and general effort. **This class will meet outside of the timetable – schedule to be determined.**



# VISUAL & PERFORMING ARTS: THEATRE

## DRAMA - INTRO (MDRM-10)

Prerequisite: None

Have you never taken Drama before at G.W. Graham? This is the place to start! **Drama-Introduction** gives students the opportunity to explore the performing arts through games, collaborative projects, and in-class performances. The course will cover an introductory overview of dramatic storytelling, movement, acting, and other styles of performing. This class will help students build self-confidence, communication skills, creative thinking, and team working abilities! Active participation in the course is expected.

## DRAMA - INTERMEDIATE (MDRM-11)

Prerequisite: *Drama – Intro* Recommended

**Drama-Intermediate** is designed for students that have taken Drama at G.W. Graham before. Students will develop a better understanding of the performing arts through games, collaborative projects, dramatic exercises, and practical experience in performance. Drama – Intermediate will focus on developing your acting skills through practice and performance. Students will be expected to perform in several productions of various lengths and styles. This class will help students build self-confidence, communication skills, creative thinking, and team working abilities! Active participation in the course is expected.

## DRAMA – ADVANCED (MDRM-12)

Prerequisite: *Drama - Intro* and *Drama – Intermediate* Recommended

**Drama-Advanced** is designed for students that have taken Drama at G.W. Graham before. Students will develop a deeper understanding of the performing arts through games, collaborative projects, dramatic exercises, and practical experience in performance. Drama – Advanced will focus on developing higher-level acting skills through classical theory, script analysis, performance, and reflection. Students will be expected to perform in several productions of various lengths, styles, and complexities. This class will help students build self-confidence, communication skills, creative thinking, and team working abilities! Active participation in the course is expected.



# VISUAL & PERFORMING ARTS: THEATRE

## TELEVISION PRODUCTION 10-12 – OT

Prerequisite: None

**Gr. 10 (MDRD-10-TP) / Gr. 11 (MDRTP11-TP) / Gr. 12 (MDRTP12-TP)**

Welcome to the exciting world of Television Production and Broadcasting! This grade 10-12 course is offered outside the timetable (a.m.) and designed to introduce students to the fundamental concepts, skills, and techniques essential for working in the television industry. Whether you aspire to be a filmmaker, journalist, television host, or behind-the-scenes technician, this course will provide you with a comprehensive understanding of the real-world television production process.

This course is ideally suited to self-starting students with the ability to work collaboratively as a team. Previous filming and editing skills will be an asset.

Students will be expected to take part in live stream events around the school such as the Principal's Reception, awards night, and be involved in community-based productions, such as events at Mt Slesse, Stit:os or even our local elementary schools.

Each month, the students will create and present a magazine-style news show highlighting news and events from around the school which will be presented to the entire school.

Course content will include:

- Hands-on experience with television production equipment, including cameras, microphones, lighting, and editing software, to produce high-quality television content.
- Scriptwriting and Storytelling.
- Production Roles: Understand the various roles within a television production team, including director, producer, editor, camera operator, and on-air talent.
- Television Genres: Explore different television genres, such as news, documentary, sitcom, drama, reality TV, and sports broadcasting, and analyze the unique characteristics of each.
- Studio and Location Shooting: Experience both studio and on-location shooting, learning how to set up and manage the technical aspects of production.
- Post-Production Editing: Master video editing techniques, including non-linear editing software, to refine and enhance your television projects.
- Broadcasting and Distribution: Understand the distribution and broadcasting process, including cable, satellite, and online platforms, as well as the legal and ethical considerations involved in media distribution.

Television Ethics and Responsibility: Discuss the ethical responsibilities of television producers, journalists, and media professionals, including issues related to bias, accuracy, and representation.

### DANCE FOUNDATIONS 10 (MDCF-10)

Prerequisite: None

Dance education provides students with opportunities to experience, understand, and value the language and art of dance. Because dance uses movement in unique ways, it provides an exciting impetus of learning in all areas of the curriculum. Students will be introduced to the elements of movement, creation and composition, presentation and performance, and dance and society. The course will focus on fitness, health and safety in dance technique. Evaluation will be based on four levels: participation; practice; personal growth and performance. Students will be required to perform several times throughout the year at public venues.

### DANCE FOUNDATIONS 11/12

Prerequisite: *Dance Foundations 10* or Previous Dance Experience Recommended.

**Gr. 11 (MDCF-11) / Gr. 12 (MDCF-12)**

Dance education provides students with opportunities to experience, understand, and value the language and art of dance. Because dance uses movement in unique ways, it provides an exciting impetus for learning in all areas of the curriculum. Students will work towards mastering skills they have learned with respect to the elements of movement, creation and composition, presentation, and performance. The course will focus on fitness, health, and safety in dance technique. Evaluation will be based on four levels: participation; practice; personal growth; and performance. Students will be required to perform several times throughout the year at public venues.



# VISUAL & PERFORMING ARTS: THEATRE

## FILM PRODUCTION – INTRO (MDRTC10)

Prerequisite: None

This is an introductory film class for all students who have not taken Film before. Students will have opportunities to develop a deeper appreciation of film and filmmaking skills that include working collaboratively on creative projects, developing stories, analyzing existing works, planning small productions, and creating short films. An emphasis is placed on working as a *team* while building specific production skills in lighting, sound, camera, acting/performing and editing. Students are encouraged to take part in discussions and learn how to accept and give constructive feedback, while also trying out all areas of filmmaking.

## FILM PRODUCTION – INTERMEDIATE (MDFT-11)

Prerequisite: *Film Production – Intro* (or *Film & TV 9/10*)

This course builds on previous learning from *Level 1, Intro to Film Production*. Students will continue to develop their critical understanding of film appreciation and production. Students will have opportunities to write, develop & shoot their own short films, while gaining a deeper understanding of various genres. Students will also have opportunities to assist with other initiatives that promote awareness or share information about our school and community. This course will also foster a deeper appreciation and skill for sound, foley, editing, and simple graphic effects.

## FILM PRODUCTION – ADVANCED (MDFT-12)

Prerequisite: *Film Production – Intermediate* (or *Film TV 11*)

This advanced course is for those who have a solid understanding of the elements of filmmaking, such as writing, cinematography, lighting, sound, and editing. Students will be expected to work within tight deadlines and have a high level of dedication to their teams and projects. Students will develop skills in motion graphics, new lighting techniques, and continuing to create short and longer form stories through visual storytelling, while finding their own unique style of filmmaking. Students will also take part in deeper discussions, and observations of industry practices.

## DIRECTING AND SCRIPT DEVELOPMENT 11/12

Prerequisite: *Drama – Intro* and/or *Drama – Intermediate* Recommended.

Gr. 11 (MDRDS11)

Gr. 12 (MDRDS12)

Explore storytelling with the **Directing and Script Writing** course. This dynamic course empowers aspiring filmmakers and playwrights to hone their craft, diving into both directing and script writing. Students will engage in hands-on exercises that cover script analysis, character development, and the fundamentals of storytelling. Through practical workshops, students will develop the art of translating scripts into compelling visual experiences. By the end of the course, students will have a strong understanding of the creative and technical aspects of directing and writing for film and staged productions. Active participation in the course is expected.

**CHECK THIS OUT!**

## FILM PRODUCTION WORKSHOP

For more information about this unique full day / full semester program, offered to students in grade 11 or 12, see **page 20** of this booklet.

Courses included in this focused learning opportunity:

- Directing and Script Development
- Film Production
- EFP Literary Studies and New Media (or New Media)
- Work Experience
- Workforce Training Certificate





# VISUAL & PERFORMING ARTS: THEATRE

## THEATRE PRODUCTION 11/12

Prerequisite: *Drama – Intro* Recommended.

Gr. 11 (MDRTP11) / Gr. 12 (MDRTP12)

**Theatre Production 11/12** is designed to allow students keen on exploring the technical sides of theatre and the performing arts. Theatre Production is an opportunity to develop as a theatre operator, manager, designer, and director. Students should be prepared to participate in games, dramatic warmups/exercises, collaborative projects, and theatrical performances. Additionally, students will complete design projects with focus areas in lighting, sound, costumes, and props. This class will help students build self-confidence, communication skills, creative thinking, and team working abilities while letting students explore theatrical design and tech! Active participation in the course is expected.

## THEATRE COMPANY 11/12 - OT

Prerequisite: *Drama – Intro* Recommended.

Gr. 11 (MDRTC11)

Gr. 12 (MDRTC12)

Explore the enchanting world of the dramatic arts through G.W. Graham's Theatre Company. This dynamic program is open to students of all grades and immerses them in all aspects of live theatre, from script analysis and character development to stagecraft and production design. Through a hands-on rehearsal process, students refine the craft of acting, the demands of design, and together they put on a show for a live audience. The course is focused on the formation and operation of a student-led theatre company. By the course's conclusion, students emerge with a comprehensive set of skills, a deep appreciation for theatre's collaborative nature, and an unforgettable experience. Theatre Company is taught outside the timetable, during the first semester, and requires a commitment of time after school. **Please see Mr. Wilhite, in the Theatre, to get a Course Information Sheet that includes dates, times, and other requirements.**

## MUSICAL THEATRE 10-12 – OT

Prerequisite: *Drama – Intro* Recommended.

Gr. 10 (MMUTH10)

Gr. 11 (MMUTH11)

Gr. 12 (MMUTH12)

**Musical Theatre** is an exhilarating class that immerses students into the world of musical theatre! The class invites students to explore the art of storytelling through song and dance, fostering a deep appreciation for the magic of musicals. Through comprehensive workshops and rehearsals, participants will develop acting, vocal, production, and dance techniques, sharpening their skills to captivate audiences with show-stopping performances. By the course's conclusion, student performers will have experienced the joy of teamwork, the demands of performance, and entertained audiences with unforgettable shows. Musical Theatre is taught outside the timetable, beginning in January, and requires a commitment of time after school. **Please see Mr. Wilhite, in the Theatre, to get a Course Information Sheet that includes dates, times, and other requirements.**





# Work Experience

The SD33 Work Experience program has been in operation for over 30 years and facilitates over 1000 community-based placements for students each year. We are committed to providing practical learning opportunities for our secondary school students. Work Experience is intended to prepare students for the transition from high school to the world of work or future training and education. 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.

Each secondary school in the Chilliwack School District has a dedicated Work Experience Facilitator on staff to connect directly with students who want to explore Work Experience opportunities in the community.

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## Elective Work Experience Courses (WEX12A & WEX12B)

- Available to grade 11 and 12 students
- Requires an application
- Off-timetable
- 100 hours of community-based placements
- Written assignments
- Students may utilize paid work hours for credit

\* Students in Grades 10-12 do **NOT** need to be registered in a WEX12 course to receive a community-based Work Experience placement. Simply complete a *Work Experience Placement Request* form and submit to your school's Work Experience Facilitator.





# Trades Sampler

The *Trades Sampler* program allows students to dive deep into a variety of trades as they find their preferred career path. Thanks to this partnership between the Ministry of Education and Skilled Trades BC, students gain hands-on experience before they enrol in a high school apprenticeship program like *Youth TRAIN in Trades* or *Youth WORK in Trades*.

In partnership with *U.F.V. Trades & Technology*, students receive workplace skills training around tools & equipment, workplace safety and job readiness skills, and receive a number of industry certifications. Students complete technical modules, covering four or more specific trades, including contact with at least one employer in each trade.

Students may also have the option to complete an embedded Work Experience course, where they will receive up to 100 hours of community-based Work Experience placements in a trade of their choice.

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## ***Women in Trades Option Available***

- Available at GWG (Grade 11 & 12 students)
- Targeted program for women interested in skilled trades
- Limited space available (18 students)

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## **ALL Trades Sampler students should...**

- Have a keen interest in the skilled trades
- Be considering a career in skilled trades
- Have a good attendance record
- Be able to handle the rigours of a University-level program
- Have access to reliable transportation to U.F.V.







**Chilliwack  
School District**  
CAREER EDUCATION

# Youth WORK in Trades

Over the last 30 years, the SD33 Trades Program has registered over 2000 apprentices with Skilled Trades BC. There are over 100 different trades to choose...from Carpenter to Hairstylist, from Cook to Welder, and many more!

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## Elective Youth WORK in Trades Courses (YWIT 11A, 11B, 12A, 12B)

- Available to grade 9, 10, 11 and 12 students (14 yrs. old)
- Earn up to 16 graduation credits
- Requires an application
- Off-timetable
- Must be employed in a Skilled Trades BC Apprenticeable trade
- Must be working with a qualified tradesperson
- Must be currently enrolled in Secondary School
- Students may apply for \$1000 scholarship

**Get on-the-job training as a Youth Apprentice!**







**Chilliwack  
School District**  
CAREER EDUCATION

# Early Childhood Education Dual-Credit

ECE training is offered to Grade-12 students with an interest in Early Childhood Education. Early Childhood Assistants and Early Childhood Educators can find work in daycares, preschools, nursery schools, special needs centres, public schools, and infant or toddler centres.

Students must be enrolled and completing English 12, and have completed English 11, Math 11, English 10 and Math 10 with C+ average to enroll in part-time studies at the *University of the Fraser Valley* in their Grade 12 year. Students must have the intention to graduate with a Dogwood diploma (B.C. Graduation Certificate).

Tuition fees are covered by the School District. Ancillary fees, books and materials are the student's responsibility. Application process is competitive and space is limited.

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## Fall Courses at U.F.V.

ECE 100 - Human Development 1

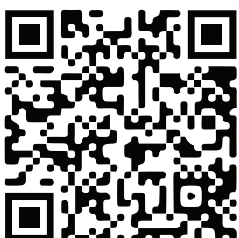
ECE 101 - Introduction to Early Childhood Education

## Winter Courses at U.F.V.

ECE 103 - Introduction to Observing and Recording  
Behaviour of Young Children

CMNS 125 - Communicating Professionally to  
Academic & Workplace Audiences

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**UNIVERSITY  
OF THE FRASER VALLEY**

# Early Childhood Education Pathway for Dual Credit



## Dual Credit Entrance Requirements

- School District Application Form
- Letter of Intent
- Complete English 11 and Math 11 - with C+ or better
- Enrolled in English 12 - Must achieve C+ or better



## Fall Courses at UFV

- ECE 100 - Human Development 1
- ECE 101 - Introduction to Early Childhood Education



## Winter Courses at UFV

- ECE 103 - Introduction to Observing and Recording Behaviour of Young Children
- CMNS 125 - Communicating Professionally to Academic & Workplace Audiences



## Pathway Summary

- 12 of the 43 credits for the full ECE Certificate pathway
- Meets the requirement for the Early Childhood Education Assistant (ECAC) certificate

## Completing the ECEA Pathway

Students are eligible to apply for an *Early Childhood Education Assistant* certificate through the BC Government Early Childhood Educator Registry, after completing the Fall Semester Courses.

## Laddering your Dual Credit into the ECE Program

Once your Dual Credit courses are complete, you can apply to continue your studies at the University of the Fraser Valley to complete your full Early Childhood Education Certificate.



Chilliwack  
School District



SCHOOL DISTRICT 78  
FRASER-CASCADE  
EVERYONE PULLING TOGETHER



# Youth TRAIN in Trades

The *Youth TRAIN in Trades* Program allows high school students to take pre-apprenticeship (technical) training that provides them with dual-credit (up to 32 credits) for high school courses and apprenticeship or industry training programs.

This is an innovative partnership between the University of the Fraser Valley (UFV) and the Chilliwack School District. Grade-11 students can apply to pursue an apprenticeship career path to obtain the first level of technical training in a particular trade in their grade-11/12 year.

*Youth TRAIN in Trades* Programs are tuition-free, however students are required to pay ancillary fees and materials. Application process is competitive and space is limited.

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**Who Attends:** Students in their grade-12 year

**Facilitator:** School Counsellor

**Dates:** Grade 12 Year

**Location:** UFV Trades and Tech, CSS, SSS  
(depending on selected program)

**Fees:** Ancillary fees, books, clothes and tools range from  
\$1,800 - \$2,400 (depending on selected program)

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## PROGRAMS OFFERED AT SD33 SCHOOL SITES:

- Auto Service Technician @ Chilliwack Secondary & Sardis Secondary, in partnership with UFV
- Welding @ Sardis Secondary & Chilliwack Secondary, in partnership with UFV
- Hairdressing at Chilliwack Secondary



SKILLEDTRADESBC  
**YOUTH**





## Program Summary:

**Automotive Service Technician:** Semester 1 – Chilliwack or Sardis Secondary  
Semester 2 – UVF Chilliwack Trades & Tech. Campus

**Transportation:** Students are responsible for their own transportation

**Tuition:** Paid by Chilliwack School District

**Equipment, Textbooks & Other Fees:** approximately \$1,000

**Certification Received:** Certification of Completion in Auto Service Tech. Foundation



## Youth TRAIN in Trades Program Objectives:

*Skilled Trades BC* Youth TRAIN in Trades is an industry certification program for BC secondary school students. The program enables students to earn both graduation credits and credit for the first level of technical training associated with a *Skilled Trades BC* program or apprenticeship. Through Work Experience placements, students can also earn credit toward the on-the-job component of a *Skilled Trades BC* program. This is an opportunity for high school students to get a head start on earning their credentials in one of the more than 100 trades or industry occupations that are accredited or recognized by *Skilled Trades BC*.



## Courses to be Taken at High School:

COURSE	CREDITS	GRADE
English Studies 12	4	Grades 11, 12 school year
TRN A	4	Grades 11, 12 school year
TRN B	4	Grades 11, 12 school year
*Students must also complete <u>ALL</u> pre-requisites for graduation prior to moving on to UVF.		







## Program Summary:

**Hairstylist:** Chilliwack Secondary – Semester 2 (Grade 11), Semester 1 (Grade 12)

**Transportation:** Students are responsible for their own transportation to CSS

**Equipment, Textbooks & Other Fees:** approximately \$500 for salon tool kit

**Certification Received:** Skilled Trades BC Foundation Level 1



## Youth TRAIN in Trades Program Objectives:

*Skilled Trades BC* Youth TRAIN in Trades is an industry certification program for BC secondary school students. The program enables students to earn both graduation credits and credit for the first level of technical training associated with a *Skilled Trades BC* program or apprenticeship. Through Practicum placements, students can also earn credit toward the on-the-job component of a *Skilled Trades BC* program. This is an opportunity for high school students to get a head start on earning their credentials in a trade recognized by *Skilled Trades BC*.



## Topics Covered in the Hairstylist Program:

- Introduction to the Cosmetology industry
- Design Principles
- Hair Cutting & Styling
- Salon Ecology
- First Aid
- Trichology
- Personal & Public Hygiene
- Bacteriology & Infection Control
- Client Relations
- Hair Colouring & Highlighting
- Chemical Texturizing
- Anatomy & Physiology
- Wigs & Hair Extensions
- Resume Design
- Employability Skills
- Skilled Trades BC Final Exam

## Program Summary:

**Welder Foundation:** Semester 1 – Chilliwack Secondary & Sardis Secondary  
Semester 2 – UVF Chilliwack Trades & Tech. Campus

**Transportation:** Students are responsible for their own transportation

**Tuition:** Paid by Chilliwack School District

**Equipment, Textbooks & Other Fees:** approximately \$1,000

**Certification Received:** Welder Foundation (Skilled Trades BC Final Exam)



## Youth TRAIN in Trades Program Objectives:

*Skilled Trades BC* Youth TRAIN in Trades is an industry certification program for BC secondary school students. The program enables students to earn both graduation credits and credit Level 1 & 2 of the technical training associated with a *Skilled Trades BC* program or apprenticeship. Through Work Experience placements, students can also earn credit toward the on-the-job component of a *Skilled Trades BC* program. This is an opportunity for high school students to get a head start on earning their credentials in one of the more than 100 trades or industry occupations that are accredited or recognized by *Skilled Trades BC*.



## Courses to be Taken at High School:

COURSE	CREDITS	GRADE
English Studies 12	4	Grades 11, 12 school year
TRN A	4	Grades 10, 11, 12 school year
TRN B	4	Grades 10, 11, 12 school year
TRN C	4	Grades 10, 11, 12 school year
TRN D	4	Grades 10, 11, 12 school year
<b>*Students must also complete <u>ALL</u> pre-requisites for graduation prior to moving on to UVF.</b>		





# Youth TRAIN in Trades Professional Cook 1



## Program Summary:

**Professional Cook 1:** Imagine High – Grade 12 (Full Year)

**Transportation:** Students are responsible for their own transportation to IHSS

**Equipment, Textbooks & Other Fees:** approx. \$850 for textbooks, supplies, uniform & knives (*subject to change*)

**Certification Received:** Professional Cook – Level 1

## Youth TRAIN in Trades Program Objectives:

*Skilled Trades BC* Youth TRAIN in Trades is an industry certification program for BC secondary school students. The program enables students to earn both graduation credits and credit for the first level of technical training associated with a *Skilled Trades BC* program or apprenticeship. Through Practicum placements, students can also earn credit toward the on-the-job component of a *Skilled Trades BC* program. This is an opportunity for high school students to get a head start on earning their credentials in a trade recognized by *Skilled Trades BC*.



## Prerequisites

- Must be a registered student in the Chilliwack School District
- Must be 15 years of age to begin and 19 years of age before program completion
- Completion of all Grade 11 courses
- Completion of English 12 & Indigenous Grad Requirement (*course may vary*)
- **Course Planning in advance is necessary to ensure course availability**

## Modules Covered in the Professional Cook 1 Program:

(Each module contains several different topics)

- |                          |                |                                   |
|--------------------------|----------------|-----------------------------------|
| • Occupational Skills    | • Meats        | • Eggs, Breakfast Cookery & Dairy |
| • Stocks, Soups & Sauces | • Poultry      | • Baked Goods & Desserts          |
| • Vegetables & Fruits    | • Seafood      | • Beverages                       |
| • Starches               | • Garde Manger | • Customer Relations              |







## Regional Career Programs

RCP training is offered to academically capable secondary school students with an interest in the Trades and Technology sector. The training is designed for high school students who have met their graduation requirements for grade 11 and 12 in an accelerated manner to enroll in full time studies at the University of the Fraser Valley in their Grade 12 year.

Students are required to meet the UFV entrance requirements for the program, including any necessary entrance exams. UFV courses may qualify for DUAL CREDIT, giving students additional credits towards the high school completion certificate.

Regional Career Programs are tuition-free, however students are required to pay ancillary fees and materials. Application process is competitive and space is limited.

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### REGIONAL CAREER PROGRAMS OFFERED AT U.F.V.

- Automotive Service Technician
  - Auto Collision Repair and Refinishing
  - Carpentry/Joinery
  - Construction Electrician
  - Heavy Mechanical Foundation
  - Professional Cook
  - Plumbing & Piping
  - Welding
  - Architectural Drafting Certificate
  - Electronics Technician Certificate - Common Core
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