

# COURSE BOOKLET & PLANNING GUIDE



## 2022-2023

**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.



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*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.*

## *“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 consists of a combination of required courses and elective choices totaling 80 credits over Grades 10, 11, and 12. Students should consider the requirements carefully when selecting their program in order to ensure their requirements for graduation are met.

**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.





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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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## CAREER ADVISOR

The Career Center is located in C167 and is a resource for all students to access post-secondary options, including information about colleges and universities; financial awards and processes; work experience, and career exploration. A variety of online resources are regularly utilized including: *myBlueprint*; *EducationPlannerBC*, [www2.gov.bc.ca](http://www2.gov.bc.ca), and many other college/university websites. Check the school website for information at: [gwq.sd33.bc.ca/index.php/career-centre](http://gwq.sd33.bc.ca/index.php/career-centre). 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. The Student 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). Email your career advisor for an appointment:

Mrs. Willock	<a href="mailto:kimberley_willock@sd33.bc.ca">kimberley_willock@sd33.bc.ca</a>
Mrs. Bawtinheimer	<a href="mailto:sheri_bawtinheimer@sd33.bc.ca">sheri_bawtinheimer@sd33.bc.ca</a>

## COUNSELING SERVICES

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-G	Mr. Price	<a href="mailto:thomas_price@sd33.bc.ca">thomas_price@sd33.bc.ca</a>
H-N	Mrs. Clarke	<a href="mailto:beth_clarke@sd33.bc.ca">beth_clarke@sd33.bc.ca</a>
O-Z	Ms. Hancock	<a href="mailto:kim_hancock@sd33.bc.ca">kim_hancock@sd33.bc.ca</a>

For students that require school district services in or outside of GW Graham, please contact your school counsellor for information. Counsellors will have information on the referral process for the following services:

- Youth Care Worker: the CYCWs are site-based and under the direction of the student's counsellor. The CYCWs work in partnership with Teachers, counsellors, parents, support staff, and community agencies
- Drug and Alcohol Counseling: a community CYMH counsellor can be accessed to provide confidential counseling regarding substance use and misuse
- Ann Davis Society: clinicians from ADS are available at the school 2 days a week to provide confidential counseling regarding personal social/emotional concerns
- Chilliwack Youth Health Centre: a drop-in service for all youth 12-26 years of age at several locations including G W Graham. For information, call 604-819-4603 or go to [www.chilliwackyhyc.com](http://www.chilliwackyhyc.com) to find out what free services are available. Students can drop in without referrals from school personnel.
- Other support services: these include Multicultural workers, hearing and vision services, school psychologists, and speech/language pathologists.

## ENGLISH LANGUAGE LEARNING

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.

Mr. Simington	<a href="mailto:david_simington@sd33.bc.ca">david_simington@sd33.bc.ca</a>
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## CAREER AND LIFE EDUCATION

Career Education is an 8 credit-based requirement for Graduation. 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. Students utilize the *myBlueprint* platform for creating a digital portfolio that can be accessed throughout high school. Students portfolios can be viewed in their [www.myBlueprint.ca](http://www.myBlueprint.ca) account. *myBlueprint* is also used for course planning and career exploration. Career Education includes various guest presentations, career fairs, course planning sessions with counsellors, and other career related learning experiences. These will be captured in the students' *myBlueprint* portfolio. All lessons and activities will be posted on the Microsoft Teams channel.

**Mrs. Porro**

**margo\_porro@sd33.bc.ca**

## WORK EXPERIENCE (AND VOLUNTEER CENTER)

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. Information can be found on the Career Programs Website ([learningservices.sd33.bc.ca/wex12a-and-wex12b](http://learningservices.sd33.bc.ca/wex12a-and-wex12b)) or by contacting one of our school WEX Coordinators:

**Ms. MacConnell**

**eilidh\_macconnell@sd33.bc.ca**

**Mrs. Wiseman**

**kathy\_wiseman@sd33.bc.ca**

## SCHOOL BASED REFERRAL TEAM (SBRT)

The School Based Referral Team, which includes Learning Assistance Teachers, classroom Teachers, Counsellors, and Administrators, meets weekly to discuss strategies for success for students who may be experiencing a variety of challenges with school. Referrals to SBRT are made through Counsellors or the student's Case Manager. SBRT meetings are a collaborative effort to plan a course of action for success. Smaller team meetings may also be called for individual students and include the student, parent(s)/caregiver(s), Counsellor, Administrator, and the student's Teachers.

## LEARNING SUPPORT SERVICES

The Learning Support Team works collaboratively with Teachers, parents/caregivers, the SBRT, and district personnel in delivering a range of supports to students with diverse learning needs. Accessing Learning Support requires a referral from the student's counsellor or case manager brought to the School Based Referral Team meeting. Students would then either be scheduled into a class for academic support (LS 10, 11 or 12 for 4 credits each), or may receive supports within the classroom setting according to the student's needs/Individual Education Plan/Student Support Plan. The Learning Support Teachers are also Case Managers for the students, which means they are your primary contact at school, regarding school and learning needs. At GW Graham, learning supports include:

- collaborative consultation with classroom Teachers
- individual student support with academic material and study skills
- guidance and support for tests and exams, including provision for adjudication of exams
- support for adapted and modified programs

## INDIGENOUS STUDENT SERVICES

Indigenous ancestry is determined and recognized on a voluntary basis through self-identification. This includes First Nations (Status or Non-Status), Metis, or Inuit ancestry. Once ancestry is declared, students can access several additional supports including, but not limited to advocating for students, academic support, in classroom push-in support, Home-School/band communication, and monitoring academic progress and attendance. We also provide guidance on Graduation/Scholarship/Bursary/Post-Secondary, offer financial assistance when costs are too burdensome (when applicable), provide information for upcoming cultural and other special events and fieldtrips, provide opportunities in the community, and help forge connections for employment. For more information, please visit room B233 or contact:

Indigenous Enhancement Teacher	Ms. Lumsden	<a href="mailto:trisha_lumsden@sd33.bc.ca">trisha_lumsden@sd33.bc.ca</a>
Indigenous Support Education Worker	Ms. Baldwin	<a href="mailto:ramona_baldwin@sd33.bc.ca">ramona_baldwin@sd33.bc.ca</a>

## RESOURCE PROGRAM

The Resource Program supports students who have an identified Category A-G and qualify for specialized learning adaptations or modifications. There are two academic paths in the Resource program – the Dogwood and the Evergreen.

The Dogwood path is for students who intend to graduate with a *Dogwood Diploma*. These students are taking academic and elective courses at grade level, with the assistance of adaptations to materials or learning environments, in order to achieve a school mark in the course. Adaptations for students on this path may include help either in the classroom or in an alternate setting; working with an EA; electronics; alternative materials; an extended timeline to meet graduation requirements; course delivery with an alternate format.

The Evergreen path is for students who will leave school at the end of grade 12 with an *Evergreen Certificate* documenting that they have attended school and met the learning outcomes identified in their IEP. This is not a graduation diploma. However, students on this path are eligible for a post-graduation year to facilitate the transition from school to community programs. This path offers core academics/life skills/personal development goals at each student's individual level. Students are included in regular courses (ex. PE, Art, Woodwork, etc.) as per their IEP, and since learning outcomes are modified, students do not receive a school mark. Emphasis is placed on independent life-skills and employability job skills.

The Resource Team provides a safe and inclusive environment to students with identified needs. Our goal is to make their experiences at GWG positive and memorable. We provide support in the classroom, in the general school environment, and in the Resource classroom. Students are introduced to the curriculum through learning methods and techniques that give them the best possible chance to succeed. Other services offered by the Resource Team include:

- case managing IEPs - developing and monitoring in consultation with parents
- consultation with classroom Teachers
- individual and group support for academic skills
- supporting life skills in order to allow a greater level of independence for students
- supporting social skills to allow positive interaction with peers and adults

Mr. Cameron	<a href="mailto:brady_cameron@sd33.bc.ca">brady_cameron@sd33.bc.ca</a>
Mr. Ostlund	<a href="mailto:david_ostlund@sd33.bc.ca">david_ostlund@sd33.bc.ca</a>



## CONNECTIONS/PATHWAYS PROGRAM

The Connections and Pathways programs are aimed at the individual personal development of each student, but with a focus on mental health education, anxiety, and depression coping strategies, daily mindfulness practice, circles, and cognitive behavior therapy techniques. Students may also work on passion projects in a variety of creative subject areas which allow them to explore their individual interests. Referrals for this program are done through the school counsellors and school-based referral team meetings. For further information, contact your school counsellor.

## Library

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 novels 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.

In addition, all students are strongly encouraged to get a *Fraser Valley Regional Library* card, so they have access to many more databases, homework helpers, and e-books.

Ms. MacConnell

eilidh\_macconnell@sd33.bc.ca

## G. W. Graham Library

LIBRARIAN'S BLOG: <https://eilidhmacconnell.wordpress.com/>

Important information here for the G. W. Graham Library and Resource Centre. Click the link below to get to the Library Resources catalogue.



[Library Catalogue](#)



### Quick Reference Guide to Online Databases

On the Library main page → access by clicking on the Library icon (on the desktop) or go to [destiny.sd33.bc.ca](http://destiny.sd33.bc.ca) and choose GW Graham Secondary School. This will give you access to our GWG databases, catalogue, and help you access educational sites through web path express.

#### DATABASES AND PASSWORDS

Britannica Online: [www.school.eb.com](http://www.school.eb.com)

Username: **gwgraham**

Password: **grizzlies**

**Ebscohost databases:** Secondary encyclopedia, and World Book encyclopedia.

Updated yearly. Contains web links, media clips, and teacher resources. Encourage students to check here before exploring the net for background info! They also provide access to NovelList, which allows readers to search for 'read-a-likes' based on "like" factors such as voice, tone, pace, characters, and setting. It also provides reviews from Booklist and publishers weekly.

At school, students can access directly from the library catalogue. **At home**, students can access through the GWG website: [gwq.sd33.bc.ca/library](http://gwq.sd33.bc.ca/library)

Username: **chwk33**

Password: **chwk33**

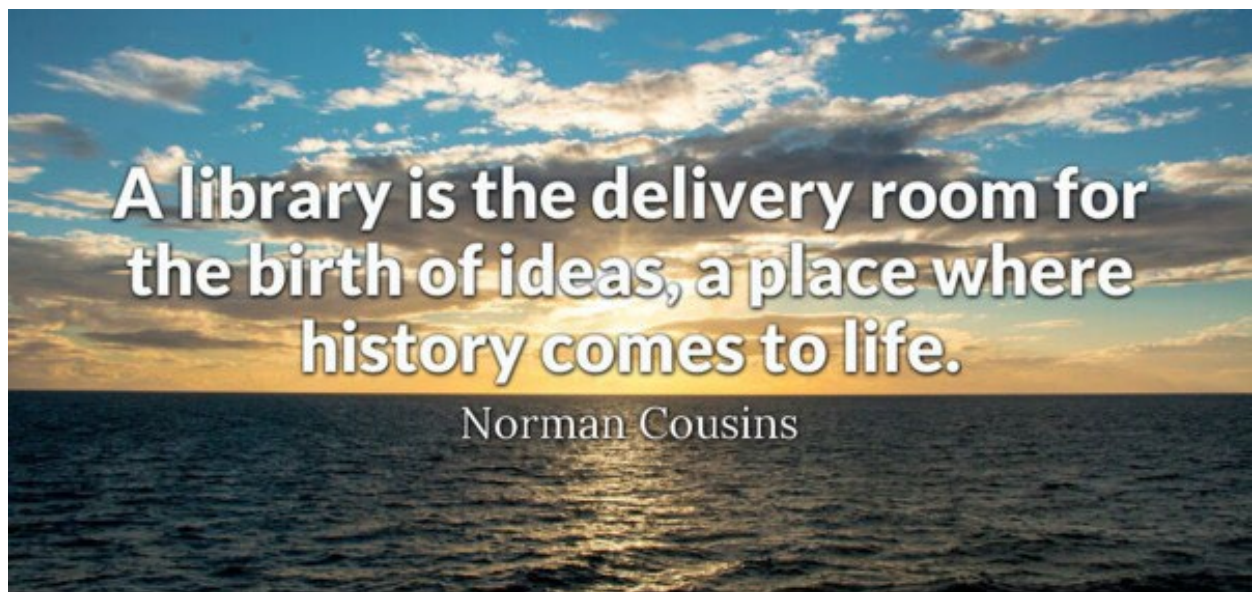
**Discovery Education Video Streaming:** Students can access these videos and copy clips for presentations, or view videos if they were absent. Website: [www.discoveryeducation.ca](http://www.discoveryeducation.ca)

Username: **grizzliestudent**

Password: **gwgraham**

**Google Scholar:** [www.scholar.google.com](http://www.scholar.google.com) (A direct link is also available from the home tab found on the Library catalogue site). This search engine works the same as google but it only searches for academic or scholarly websites. It saves search time.

ALL OF THESE LINKS (AND MORE) ARE AVAILABLE FROM THE LIBRARY CATALOGUE PAGE, which can be accessed from home by going to the GW Graham website and clicking on the library link ([gwq.sd33.bc.ca/library](http://gwq.sd33.bc.ca/library))



## 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 below or talk to your counsellor. [www.bced.gov.bc.ca/graduation/ext\\_credentials](http://www.bced.gov.bc.ca/graduation/ext_credentials)

## 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:

[www.ufv.ca/admissions/high-school-grades-and-transcripts/concurrent-studies](http://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) / 2018 Graduation Requirement

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

You must have:

- 52 credits (minimum) from required courses
  - see list below
- 28 credits (minimum) from Elective courses
  - 4 (of these 28) credits must come from either a Fine Arts or Applied Skills course at Grade 10, 11, or 12 level
- 8 credits for Career Life Education 10 and Career Life Connections 12 plus the Capstone Interview
- Three (3) ministry designed assessments: Numeracy 10, Literacy 10, and Literacy 12

Grade 10			Grade 11		Grade 12	
	Course	credit	Course	credit	Course	credit
1	Language Arts 10*	4	Language Arts 11*	4	Language Arts 12	4
2	Math 10*	4	Math 11*	4	Elective 12	4
3	Socials Studies 10	4	Socials Studies 11 or 12*	4	Elective 12	4
4	Science 10	4	Science 11*	4	Elective 12	4
5	PE 10*	4	Elective	4	Elective	4
6	Elective	4	Elective	4	Elective	4
7	Elective	4	Elective	4	Elective	4
8	Elective	4	Elective	4	Elective	4
	Literacy 10 Assessment		Numeracy 10 Assessment		Literacy 12 Assessment	
	Career Life Education 10	4	Career Life Connections 12 (1 <sup>st</sup> half)	2	Career Life Connections 12 (2 <sup>nd</sup> half) + Capstone Interview	2

\* Students need to select one of the possible courses that satisfies this requirement

- 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.





## COURSES OFFERED





## COURSES OFFERED TO GW GRAHAM STUDENTS

**GRADE 9 STUDENTS** must make the following selections:

1. Humanities 9 or Humanities 9 Fine Arts or GrahamX 9\*
2. Math 9
3. Science 9 or GrahamX 9\*
4. Physical & Health Education 9 or PHE 9 Leadership or a course from the sport specific PHE options (see list below) or GrahamX 9\*
5. Three (3) Electives Courses

### ELECTIVE COURSES OFFERED TO GRADE 9 STUDENTS

Art 9 Choir 9 Computer Studies 10 Concert Band 9 Dance Foundations 10 Drafting 10 Drama 10 Electronics and Robotics 10 Fashion & Design 10 Film and TV 9 Foods Studies (International) 10	French 9 Guitar – Beginner 10 Guitar – Intermediate 10 Jazz Band 9 Leadership 9 Media Arts 10 Media Design (Animation) 10 Metalwork 10 Orchestra 9 Outdoor Education – OT Pep Band 10 – OT Spanish 9	Sport Specific PHE <ul style="list-style-type: none"> <li>• Baseball 9</li> <li>• Basketball 9</li> <li>• Football 9</li> <li>• PHE Leadership 9</li> <li>• <del>Rugby 9</del></li> <li>• Soccer 9</li> <li>• Volleyball 9</li> </ul> Vocal Jazz 9 – OT Woodwork 10 Yearbook 9 – OT
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*OT = Out of Timetable*

\*GrahamX 9 – see page [19](#) (program includes Humanities, Science, and Physical & Health Education)

**GRADE 10 STUDENTS** must make the following selections:

1. English 10 option
2. Math 10 option
3. Science 10
4. Socials 10 option
5. Physical and Health Education 10 option
6. Three (3) Electives Courses

COURSES OFFERED TO GRADE 10 STUDENTS	
CORE COURSES	ELECTIVE COURSES
<p><b>English 10 Options:</b>  Creative Writing 10  GrahamX 10* (see below)  Humanities 10 Fine Arts  Literary Studies 10  New Media 10</p> <p><b>Math 10 Options:</b>  Foundations of Math and Pre-Calculus 10  Workplace Math 10</p> <p><b>Science 10 Options:</b>  GrahamX 10* (see below)  Science 10</p> <p><b>Social Studies 10 Options:</b>  GrahamX 10* (see below)  Humanities 10 Fine Arts  Social Studies 10</p> <p><b>PHE 10 Options:</b>  Physical &amp; Health Education 10  GrahamX 10* (see below)  Sport Specific PHE <ul style="list-style-type: none"> <li>• Baseball 10</li> <li>• Basketball 10</li> <li>• Football 10</li> <li>• PHE Leadership 10</li> <li>• <del>Rugby 10</del></li> <li>• Soccer 10</li> <li>• Volleyball 10</li> </ul> </p>	<p>Art Studio 10  Choir 10  Computer Studies 10  Concert Band 10  Dance Foundations 10  Drafting 10  Drama 10  Electronics and Robotics 10  Fashion 10  Film and TV 10  French 10  Guitar – Beginner 10  Guitar – Intermediate 10  Halq’eméylem 10  Foods Studies (International) 10  Jazz Band 10  Leadership 10  Media Arts 10  Media Design (Animation) 10  Metalwork 10  Orchestra 10  Outdoor Education – OT  <del>Pep Band 10 – OT</del>  Spanish 10  Strength and Conditioning 11  Studio Arts 3D Ceramics &amp; Sculpture 10  Vocal Jazz 10 – OT  Woodwork 10  Yearbook 10 – OT</p>

*OT = Out of Timetable*

\*GrahamX 10 – see page [19](#) (program includes Humanities, Science, and Physical & Health Education)

**Grade 10 students can take Grade 11 courses if the prerequisites are met**

**GRADE 11 STUDENTS** must make the following selections:

1. English 11 option
2. Math 11 option
3. Science 11 option
4. Social Studies 11/12 option
5. Four (4) Elective Courses

COURSES OFFERED TO GRADE 11 STUDENTS		
CORE COURSES	ELECTIVE COURSES	
<p><b>English 11 Options:</b>            Creative Writing 11            Literary Studies 11            Literary Studies with Elaborations 11 (Honours)            New Media 11</p> <p><b>Math 11 Options:</b>            Foundations of Math 11            Pre-Calculus 11            Workplace Math 11</p> <p><b>Science 11 Options:</b>            Chemistry 11            Chemistry 11 (Honours)            Earth Science 11            Life Sciences 11            Life Sciences 11 (Honours)            Physics 11            Science for Citizens 11</p> <p><b>Social Studies 11/12 Options:</b>            20<sup>th</sup> Century World History 12            Comparative Cultures 12            Contemporary Indigenous Studies 12            Comparative World Religions 12  <del>Explorations in Social Studies 11 (Honours)</del>            Genocide Studies 12            Law Studies 12            Philosophy 12            Physical Geography 12            Social Justice 12</p>	Active Living 11 Active Living (PHE) Leadership 11 Art Studio 11 Choir 11 Computer Programming 11 Concert Band 11 Dance Foundations 11 Drafting 11 Drama 11 Robotics 11 Fashion & Design 11 Fitness and Conditioning 11 Film & TV 11 Food Studies 11 French 11 Guitar – Beginner 11 Guitar – Intermediate 11 Halq'éméylem 11 Housing & Living Environments 12 Instrumental Survey 11 Jazz Band 11 Leadership 11 Marketing & Promotion 11 Media Arts 11 Media Design (Animation) 11	Metalwork 11 Music Production & Recording Arts 11 Orchestra 11 Outdoor Education 11 - OT <del>Pep Band 11 - OT</del> Photography 11 Psychology 11 Spanish 11 Sport Specific PHE <ul style="list-style-type: none"> <li>• Baseball 11</li> <li>• Basketball 11</li> <li>• Football 11</li> <li>• <del>Rugby 11</del></li> <li>• Soccer 11</li> <li>• Volleyball 11</li> </ul> Sports Medicine 11 Strength & Conditioning 11 Strength & Conditioning 11 - OT Studio Arts 2D Drawing & Painting 11 Studio Arts 3D Ceramics & Sculpture 11 Theatre Live Streaming 11 Theatre Production 11 Vocal Jazz 11 - OT Woodwork 11 Yearbook 11 - OT

*OT – Out of Timetable*

- School of Trades: Trades Sampler – see page [25](#)
- School of Film: Production Workshop – see page [29](#)

**Grade 11 students can take Grade 12 courses if the prerequisites are met**

**GRADE 12 STUDENTS** must make the following selections:

1. English 12:
  - AP English Literature and Composition 12
  - English Studies 12
  - English First Peoples 12
2. Three (3) Grade 12 Elective options
3. Four (4) other Elective Courses

### COURSES OFFERED TO GRADE 12 STUDENTS

20th Century World History 12 Active Living 12 Active Living (PHE) Leadership 12 Anatomy & Physiology 12 Anatomy & Physiology – Kinesiology 12 AP Biology 12 <del>AP Calculus AB</del> AP Chemistry 12 AP English Literature & Composition 12 Art Studio 12 Calculus 12 Chemistry 12 Child Development & Caregiving 12 Choir 12 Comparative Cultures 12 Comparative World Religions 12 Computer Programming 12 Concert Band 12 Contemporary Indigenous Studies 12 Creative Writing 12 Dance Foundations 12 Digital Media (Animation) 12 Drafting 12 Drama 12 English Studies 12 English First Peoples 12 Entrepreneurship 12 Housing & Living Environments 12	Fashion & Design 12 Fashion Industry 12 Film & TV 12 Fitness and Conditioning 12 Food Studies 12 Foundations of Math 12 French 12 Furniture and Cabinetry 12 Genocide Studies 12 Geology 12 Guitar – Beginner 12 Guitar – Intermediate 12 Halq'eméylem 12 Instrumental Survey 12 Jazz Band 12 Law Studies 12 Leadership 12 Literary Studies 12 Machining and Welding 12 Media Arts 12 Metalwork 12 Music Production & Recording Arts 12 New Media 12 Orchestra 12 Outdoor Education 12 - OT	<del>Pep Band 12 – OT</del> Philosophy 12 Photography 12 Physical Geography 12 Physics 12 Pre-Calculus 12 Psychology 12 Social Justice 12 Spanish 12 Specialized Foods (Baking) 12 Sport Specific PHE <ul style="list-style-type: none"> <li>• Baseball 12</li> <li>• Basketball 12</li> <li>• Football 12</li> <li>• <del>Rugby 12</del></li> <li>• Soccer 12</li> <li>• Volleyball 12</li> </ul> Sports Medicine 12 Strength & Conditioning 12 Strength & Conditioning 12 - OT Studio Arts 2D Drawing & Painting 12 Studio Arts 3D Ceramics & Sculpture 12 Theatre Live Streaming 12 Theatre Production 12 Vocal Jazz 12 - OT Woodwork 12 Yearbook 12 - OT
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*OT – Out of Timetable*

- School of Trades: Trades Sampler – see page [25](#)
- School of Film: Production Workshop – see page [29](#)

## FLEX 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!

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For more information, please visit: [gwq.sd33.bc.ca/flex](http://gwq.sd33.bc.ca/flex)  
or email **Mr. Bernard** at [paul\\_bernard@sd33.bc.ca](mailto:paul_bernard@sd33.bc.ca)

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## CHILLIWACK SCHOOL DISTRICT ONE CAMPUS

### RATIONALE

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

### WHAT?

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

### HOW?

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

**Note: Opportunities are available as space permits.**

### SAMPLE TIMETABLE

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

### LEARN MORE

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



# Course Descriptions



# SPECIALTY PROGRAMS

## GRAHAMX



### *Explore, Experience, Express*

*"Give the pupils something to do, not something to learn; and the doing is of such a nature as to demand thinking; learning naturally results."*

- John Dewey -

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 Life Education

### Grade 10 Cohort (Full Year)

- English 10
- Science 10
- Physical and Health Education 10
- Social Studies 10
- Career Life Education



## OUTDOOR EDUCATION

*"Connect to Nature, Transform your Life"*

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. Fees are adjusted at the start of each year. 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.”  
-ALBERT EINSTEIN

## 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: senior 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.

**Please note: There is a \$200.00 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.





## ADVANCED PLACEMENT COURSES AND HONOURS CLASSES

\*AP examinations are written in May and it is recommended that all students sit for the exam. Examination costs will be approximately \$125.00 per course.

### WHAT IS ADVANCED PLACEMENT?

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 3+ on the AP exam may earn either university or advanced placement credit.

### EXPERIENCE

Students are provided an enriched program that mirrors post-secondary curricula and expectations. Students will learn what college level courses are like and develop the skills 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

### UNIVERSITY RECOGNITION

Students with a "qualifying grade" (3+) can earn course credit at thousands of colleges and universities worldwide.

### HOW MANY COLLEGES 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. The best source of specific and up-to-date information about an individual institution's policy is its calendar or website.

### FREQUENTLY ASKED QUESTIONS

#### **Q. What is the difference between an Honours class and an AP class?**

**A.** An AP class is an Honours class but in a subject area where the end result is taking the AP (Advanced Placement) class in Grade 12 and trying to obtain university credit. An Honours class is offered in a subject area where there is no AP class offered in Grade 12. Currently, English, Chemistry and Biology offer AP courses at GW Graham.

#### **Q. Will Honours appear on my B.C. Education Transcript?**

**A.** They will only note if the student has taken an AP class in their Grade 12 year, regardless of whether he or she passed the AP exam or not. If they passed the AP exam, most universities will grant first year credit for the class passed.

#### **Q. Why take Honours/AP then?**

**A.** They are enriched classes for students who love the subject area or enjoy learning, in general. In addition, Honours classes will also teach them skills that can help make them successful post-secondary students. The classes are enriched in a variety of ways, including different material, activities, projects, and fieldtrips. Honours students are often able to learn the regular curriculum at a faster pace than occurs in regular classes, allowing time for more in-depth analysis of curricular content.

**Q. Can only “A” students take Honours/AP classes?**

**A.** No, all students are welcome to apply for an Honours/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.

**Q. How does my child enroll in an Honours/AP class?**

**A.** If not currently enrolled in the Honours/AP stream, students may express interest to their current subject teacher and counsellor.

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

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"TAKE ALL THE COURSES IN YOUR CURRICULUM. DO THE RESEARCH. ASK QUESTIONS.  
FIND SOMEONE DOING WHAT YOU ARE INTERESTED IN! BE CURIOUS!"

- KATHERINE JOHNSON

## FOCUSED LEARNING OPPORTUNITIES



### School of Trades

A premium trades experience



### School of Film

Connecting learners to the film and television industry



### School of Human Kinetics

Exploring the human potential for health, performance, and wellness

**FEBRUARY 2023**

The School of Trades: Trades Sampler, School of Film: Production Workshop, and School of Human Kinetics (*starting in February 2023*) are deep learning programs that are 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

These full-semester programs have career advisor supports offered before and after completion of the deep learning semester. Programs are designed for students in Grades 11 or 12, so it is recommended to build a two-year plan to meet graduation requirements while fitting in a focused semester. Students interested in these programs simply need to see 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.

Please see the following pages for more details about the following focus areas:

- **School of Trades**
  - **Trades Sampler** (page [25](#))
  - **Youth Train in Trades** (page [27](#))
  - **Youth Work in Trades** (page [28](#))
- **School of Film: Production Workshop** (page [29](#))
- **School of Human Kinetics** (*starting in February 2023*)



## TRADES SAMPLER



Trades Sampler is a program designed to provide job readiness skills that will lead to success in the workforce or post-secondary trades programs. Students enrolled in Trades Sampler will embark on a rich and unique learning experience in which hands-on learning and collaborative work with staff and peers is at the core. The program is designed to occur over an entire semester as students are with the same instructor for the whole day. Students will participate in a wide variety of activities to build their skills in a controlled environment where repetition of skills will build confidence, and in turn, competent and qualified

tradespeople. Major projects will be set up to resemble a worksite environment rather than a traditional high school shop class. Students will be expected to work together in group situations and lean on their peers for collaborative troubleshooting and problem solving.

Imbedded in the course are 100 hours of work experience. These placements are facilitated by our Work Experience Coordinator and occur within the community with local employers. These experiences allow students to interact with industry at the rigorous pace of the workforce. Woven into the Trades Sampler experience is a 4-credit course called Workforce Training Certificates. Students will receive certificates for Site Ready, WHMIS, Fall Protection, Power Actuated Fasteners, and Occupational First Aid Level 1.

The program includes a 4-week Trades experience at the University of the Fraser Valley. Cohorts of students will attend the university, full time, on a schedule to be determined with each group. Courses covered are, but not limited to Automotive Service Technician, Welding, and Heavy-Duty Mechanics.

Students must achieve a grade higher than 70% at UFV to receive credit for Trades Sampler 12C.

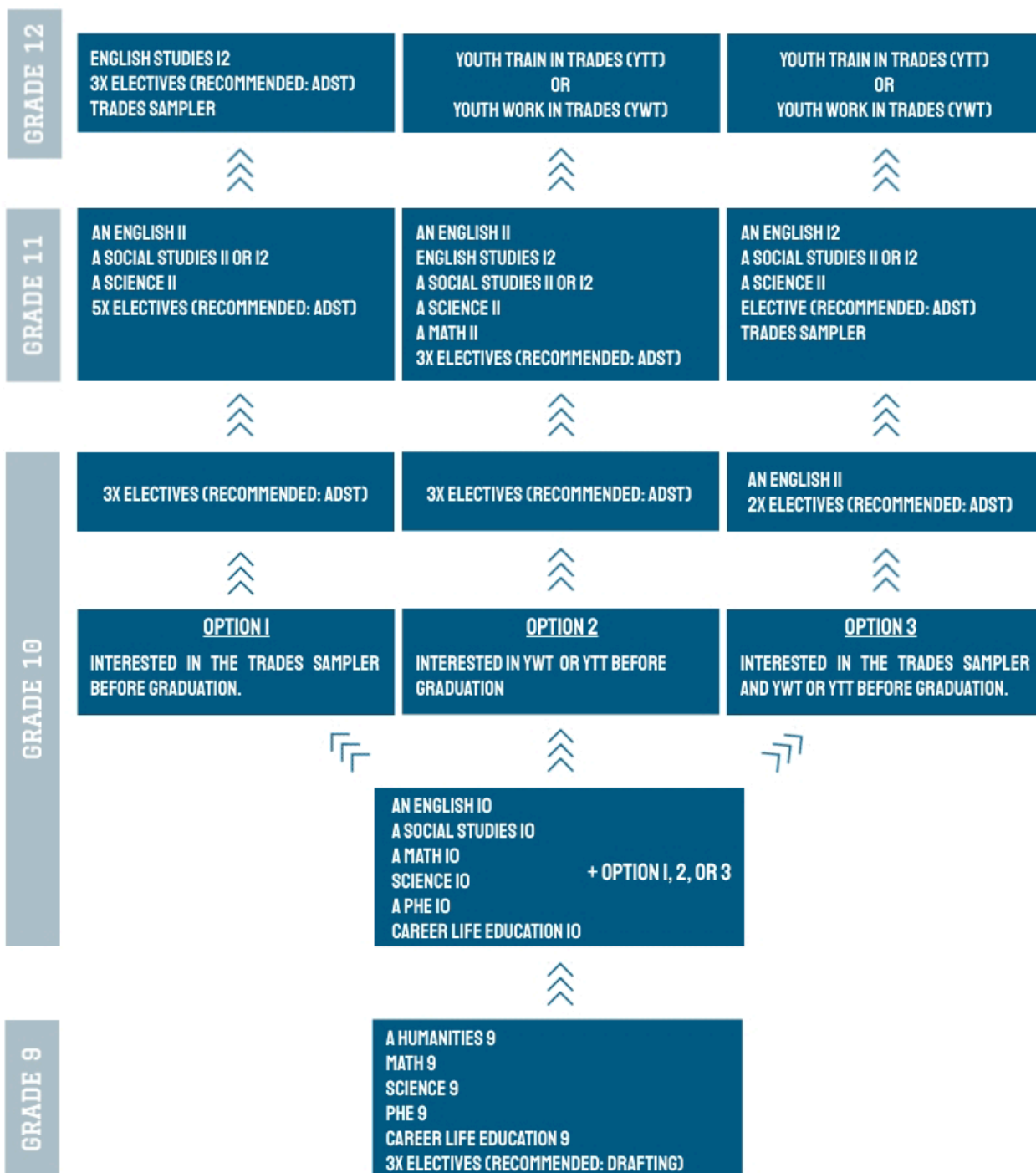


Trades Sampler may be taken in Grade 11 or 12 with two intended outcomes:

- Grade 12 students who take the Trades Sampler can use their work experience, certificates, and newly acquired skills to apply for a job and pursue an apprenticeship or apply to one of many post-secondary institutions in BC offering a Trades Foundations Program.
- Grade 11 students who take the Trades Sampler have the additional option of applying for a seat in the Regional Careers Program for their Grade 12 year - provided they have met their academic requirements for graduation. Careful pre-planning is required. The Regional Careers Program provides an opportunity for students to start their first-year apprenticeship training at UFV while still being enrolled as a student at GW Graham Secondary School. The Chilliwack School District will cover tuition fees for students to attend this program. All other expenses are the responsibility of the student.

The following page outlines a recommended plan for students interested in the Trades Sampler program while attending GW Graham Secondary School.

# GRAHAM TRADES



See pages 27 and 28 for further information about Youth Work in Trades (YWT) and Youth Train in Trades (YTT)



## YOUTH TRAIN IN TRADES

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

Eligibility criteria includes:

- completion of the Careers Programs Application Package
- specific trades course prerequisites (program specific)
- to be eligible to move onto the UFV portion of the program, students **must have** completed their English 12 and Math 11 courses **prior to Semester 2 of their Grade 12 year**

### PROGRAMS OFFERED IN SD33

- **Welding Foundation** – Sardis Secondary School
- **Automotive Service Technician** – Sardis Secondary School and Chilliwack Secondary School
- **Hairdressing** – Chilliwack Secondary School

**Fees:** Tuition costs are covered by School District 33. Ancillary fees, textbooks, clothing, and PPE range from \$1,000 – \$2,400, depending on the length of the program – these are the responsibility of the student.

**Please note: Out of catchment students in these programs will be limited to spaces available.**

Contact your school Counsellor for more information.

### REGIONAL CAREER PROGRAMS (RCP)

School District 33 also partners with UFV to offer additional **Dual Credit Career Programs**. These programs are offered during a student's entire Grade 12 year. Students must meet all their **Graduation Requirements prior to** enrolling in an RCP program. RCP is a competitive application process open to all Grade 11 School District 33 students. Limited seats are available.

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

**Fees:** Tuition costs are covered by School District 33. Ancillary fees, textbooks, clothing, and PPE range from \$1,000 – \$2,400, depending on the length of the program – these are the responsibility of the student.

**Applications and additional information can be found on the Careers Programs Website:**

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

Contact: **Heather Elliot** – District Coordinator of Career Transitions  
**heather\_elliott@sd33.bc.ca** or call 604-798-0347



## GET ON-THE-JOB TRAINING AS A YOUTH APPRENTICE!

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

Any student currently employed with a qualified Tradesperson is eligible for the Youth Work in Trades Program (YWT). Students earn up to 16 credits towards graduation if they are enrolled in the YWT Program.

The eligibility criteria include:

- ✓ must be 14 years of age or older
- ✓ working in a paid position
- ✓ working under the guidance of a qualified Tradesperson
- ✓ enrolled in a School District 33 secondary school
- ✓ completion of the Careers Programs Application Package



With the completion of 900 hours worked and a C+ average in all Grade 12 courses, students may also qualify for a \$1,000.00 award.

Application forms are available online at:

[learningservices.sd33.bc.ca/sd33-youth-train-programs](http://learningservices.sd33.bc.ca/sd33-youth-train-programs)

Contact: Heather Elliot – District Coordinator of Career Transitions

heather\_elliott@sd33.bc.ca or call 604-798-0347

➡ Check out the eligible trades at [itabc.ca](http://itabc.ca) ⬅



## PRODUCTION WORKSHOP

**Production Workshop** is a new, hands-on, project-based Film Program unique to our school district. This immersive, full semester, workshop-type class will offer students a chance to take a ‘deep dive’ into learning about Film Production while building lasting connections, not only at GW Graham, but in our community and beyond.

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



- Teamwork in a single cohort of like-minded individuals in various settings, including on a film set
- Film & script analysis, from various genres and styles
- Screenwriting and script development
- Various roles in film production and other media formats, including directing, cinematography, audio production, editing, and presenting
- Community development and partnerships
- Real-world, **hands-on** work experience in the Film & TV industry. Students may also connect with post-secondary opportunities in Film & TV

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

- Film & Television (11 or 12), New Media (11 or 12) [English Language Arts], Directing & Scriptwriting 11, Drama (11 or 12), WEX (Work Experience 11 or 12), and Workforce Training Certificates 12

Prerequisites to take Production Workshop:

A strong, mature and positive work ethic.

- Excellent attendance
- Ability and desire to work collaboratively as a team
- Desire to take creative risks, explore innovative ideas
- Previous film experience is an asset

What might a day look like in Production Workshop? This will vary greatly, here are a few examples:

**Example 1:** Students go to a local bakery and create a unique promotional film or documentary to build community. Students explore various roles in the process, as well as create new contacts in our community. The class takes on different parts of the project and we work together to create something new and exciting together. The finished product is something we’ve all had a hand in making and are proud of it.

**Example 2:** A screenplay reading has been assigned. We are analyzing the script for scene structure, conflict, and character. We discuss this as a group and watch several clips comparing our own analysis with the director’s vision. Students gain a better understanding of script to screen process. Student work on their own personal scripts, influenced by a favourite director or writer. A few students are even working on podcasting and blogging projects.

**Example 3:** Several students are out at their work sites today, some are at local studios while some are at the Canadian Motion Picture Park Studios in Burnaby where productions are created for Netflix, Prime and other streaming services. Students get a chance to make real-world connections in their learning, while seeing and experiencing the real thing. Students who are not scheduled for their work placements today continue to edit and work on their personal projects such as screenplays and short films.

**Example 4:** Today we’re going to Vancouver Film School for a field trip. We are meeting a director who worked for Pixar in their early works and the students are excited. We also get to watch a film being shot in Gastown, and later go down to Granville Island to watch Vancouver Theatre Sports. We meet a few of the performers after the show, then head home.

# ART

## 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 10 (MVAST10)

Prerequisite: Previous Art Courses Recommended

Students will have the opportunity to work with a wide variety of art media and techniques. Students will continue to build on previous experiences and develop strong drawing skills, critical thinking, and image development strategies. Students in grades 10-12 who have not taken previous art courses should complete Art 10 before Art Studio 11 or Drawing and Painting 11.

## ART STUDIO 11 (MVAST11)

Prerequisite: Art 9 or other Art Studio 10

This course allows students to continue to work with a wide 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. This course is suitable for all students with previous art experience who want to work with a wide variety of projects and media. It is recommended for students who plan to take further Visual Arts courses at the post-secondary level.

## ART STUDIO 12 (MVAST12)

Prerequisite: Art Studio 11

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. This course is recommended for students who plan to take further Visual Arts courses at the post-secondary level.



## STUDIO ARTS 2D – DRAWING AND PAINTING 11 (MVAD-11)

Prerequisite: Art 10 or 11 with a B or higher

This course is specialized for students who intend to continue in an art-related field at the post-secondary level. Students will develop a high level of competence in drawing and painting through in-depth projects and independent study. 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 be required to present and discuss their work related to both technique and concept. Regular use of a sketchbook will be an essential component of Drawing and Painting 11.



## STUDIO ARTS 2D – DRAWING AND PAINTING 12 (MVAD-12)

Prerequisite: Drawing and Painting 11

This course continues to build on the skills and knowledge introduced in Studio Arts 11: Drawing and Painting and is recommended for students who intend to continue in an art or design related field at the post-secondary level. Development of works appropriate for inclusion in portfolios will be encouraged. Regular use of a sketchbook will be an essential component of Drawing and Painting 12.

## PHOTOGRAPHY 11 (MVAPH11)

Prerequisite: Previous Art courses preferred, but not required

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 Photography 12.



## PHOTOGRAPHY 12 (MVAPH12)

Prerequisite: Photography 11

This course will build on skills and processes introduced in Photography 11. 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.





## **STUDIO ARTS 3D – CERAMICS AND SCULPTURE 10 (MVAC-10)**

Prerequisite: None

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. Papier-Mache, textiles, wire, paper sculpture, casting, or other media 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 post-secondary level. Basic materials and tools will be provided. Previous art experience is not required.



## **STUDIO ARTS 3D – CERAMICS AND SCULPTURE 11 (MVAC-11)**

Prerequisite: Studio Art 3D 10 recommended

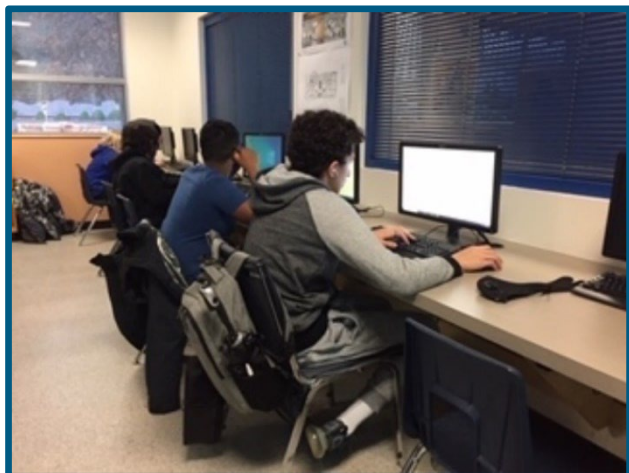
This course builds on the skills and knowledge introduced in Ceramics and Sculpture 10, with a focus on more advanced hand building, sculpture, and development of skill on the wheel, as well as glazing and firing of work. Papier-Mache, textiles, wire, paper sculpture, casting, or other media may be explored. Studio and material safety will be covered. Basic materials and tools will be provided.

## **STUDIO ARTS 3D – CERAMICS AND SCULPTURE 12 (MVAC-12)**

Prerequisite: Studio Art 3D 11 recommended

This course builds on the skills and knowledge introduced in Ceramics and Sculpture 11, 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 project work based on skills and areas of interest developed in Ceramics 10 and 11. A variety of 3D media will also be explored. Students who plan to attend post-secondary art programs are encouraged to work on projects to be included in their portfolios.

# **BUSINESS AND COMPUTERS**



## **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 PROGRAMING 11 (MCMPRI1)

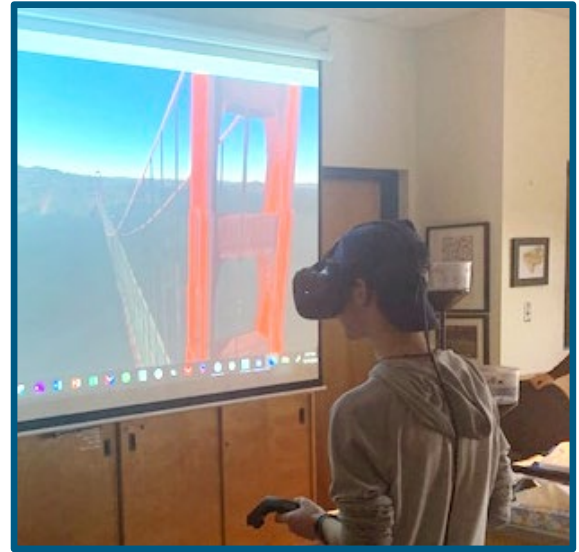
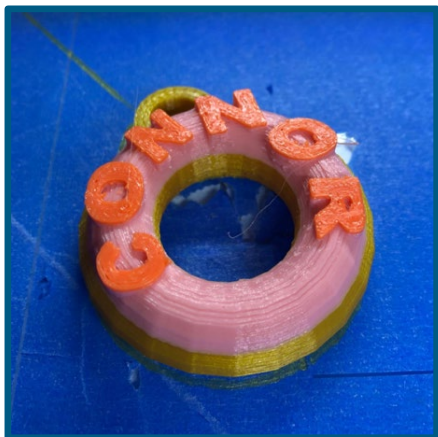
Prerequisite: Computer Studies 10 or Robotics 10 recommended

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. Game development in Unity requires learning C#, and to create virtual reality environments, you will work with JavaScript. You may also choose to study cybersecurity through PaloAlto Networks Cybersecurity Academy (pending availability). This is an entry-level online course about the cybersecurity landscape, threat prevention, and next-generation technology for cloud, network, endpoint, and infrastructure security. Knowledge and experience with Linux are recommended.

## COMPUTER PROGRAMING 12 (MCMPRI2)

Prerequisite: Computer Programming 11 recommended

For students with credit for Computer Programming 11, this course will focus on your interests. You may continue working with various programming languages of your choice. If you'd like to use robots as the focus of your programming, LEGO Mindstorm EV3s will be available to learn Python, Java, Go, C++, C, or Rust. Solid knowledge and experience with at least one programming language is recommended. You may also continue with Unity game development, or to study cybersecurity through Palo Alto Networks Cybersecurity Academy instead. This is an entry-level online course about the cybersecurity landscape, threat prevention, and next-generation technology for cloud, network, endpoint and infrastructure security (pending availability). Knowledge and experience with Linux are recommended. If you have little prior experience with computer programming, please sign up for Computer Programming 11 instead.



## ELECTRONICS & ROBOTICS 10 (MTEAR10)

Prerequisite: 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 11/12.

## 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.

## MARKETING & PROMOTION 11 (MMAP-11)

Prerequisite: None

Students will learn about business, finance, and marketing. In this class we will explore both practical and theoretical topics in business to help students to understand what the entrepreneurial process is and how they can engage with the world of business, both as a consumer and a business owner, in a meaningful way. Throughout the course, students will learn about economic theories, globalization, business law and ethics, tax structures, personal finance, and marketing/advertising strategies.

## ENTREPRENEURSHIP 12 (MENT-12)

Prerequisite: Marketing & Promotion 11

Students will build upon the skills and theory learned in Marketing & Promotion 11. Through a model of inquiry-based learning, students will have the opportunity to continue developing practical applications in an area of business of their choosing. Areas of learning could include digital marketing, e-commerce, investment and finance, and corporate tax policy. Students will also have the opportunity to transition their business plan from Marketing & Promotion 11 to an operational business as they learn about the challenges and benefits that come with being an entrepreneur.

## 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 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 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.

## MEDIA ARTS 10 (MVAM-10)

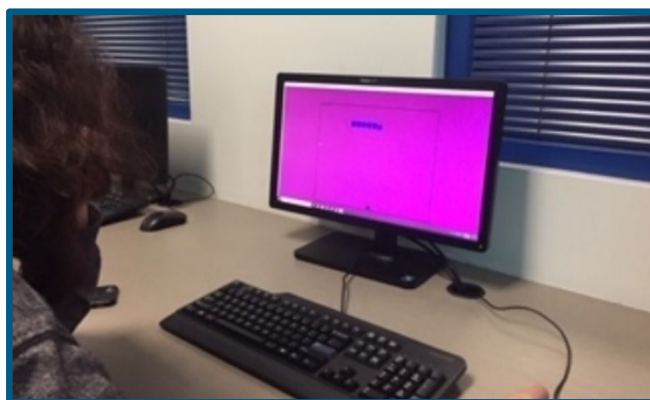
Prerequisite: None

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 GR 11 (MVAMT11) / GR 12 (MCAMT12)

Prerequisite: Media Arts 10

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.



# DRAMA

## DRAMA 10 (MDRM-10)

Prerequisite: None

This course expands on previous experience and includes: exploring, scripting, characterization, mime, dance, improvisation, role-play, sense, storytelling, choral speaking, cooperative game playing and more exploration. Ongoing participation, written reflection and personal evaluation is expected.

## DRAMA 11 (MDRM-11)

Prerequisite: Drama 10

Students will develop a deeper understanding of theatre arts through the study of various theatre skills and practical experiences in performance. The student actor at this level will be expected to perform in several productions of various lengths, theatre styles and complexity. Those enrolled in Acting 11 will be expected to volunteer on at least one extra-curricular main stage production. Improvisation, Modern, Naturalistic, Comedia del arte, Mask Geek, and Shakespeare performance styles are all covered in this comprehensive acting course. Additionally, the history of theatre plus the technical aspects of theatre production that includes lighting, sound, and various staging possibilities will be covered. Evaluation will be based on performance in various projects and productions, quizzes on theatre history and stagecraft, and class participation.

## DRAMA 12 (MDRM-12)

Prerequisite: Drama 11

Acting 12 is an advanced course in theatre study and acting technique that builds on the foundations set in Acting 11. Assignments will include a variety of material and elements focusing on different periods, styles, and genres of theatre history and performance. Numerous group scenes and activities will require a definite mature commitment and approach to others in the class. Student evaluation is carried out daily, depending on the student's positive class participation and creative growth.

## THEATRE PRODUCTION 11/12

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

Prerequisite: Drama 10 recommended

Theatre Production 11-12 is designed to allow students keen on exploring the technical sides of theatre and the performing arts an opportunity to develop design, construction, lighting and stage-managing skills. Students should be prepared to be involved in ALL school productions; as well as be exposed to numerous elements of the historical sides of theatre production as a valuable learning perspective. Student evaluation is carried out daily, depending on the students' positive class participation and creative technical growth. This course will be evaluated as follows: Project work and participation 60%, Theory, research and quizzes 30% and Safety, attitude and effort 10%.





## **FILM AND TV 9/10**

### **Gr 9 (MADMA09) / Gr 10 (MDRTC10)**

Prerequisite: None

This course is an introduction to the basic elements of film production including lighting, sound, shooting and editing. Students will get a chance to critically analyze film from various historical periods and genres, and develop hands-on experience producing short films and scenes in small groups.

## **FILM AND TV 11 (MDFT-11)**

Prerequisite: Film and TV 9/10

This course builds on the elements from Film 9/10. Students will continue to develop their critical understanding of film appreciation and production. Students will get opportunities to write, develop & shoot their own short films, and develop and create various documentaries for our school and community. Students are encouraged to submit quality work to our annual Student Film Festivals.

## **FILM AND TV 12 (MDFT-12)**

Prerequisite: Film and TV 11

Building on skills developed in Film and TV 11, students will gain professional skills in film production including working in various roles on a film set, including Director, Assistant Director (A.D.) Assistant Camera (A.C), Boom Operator, and other vital roles on a production, with an emphasis on audience/film relationship. Students will get to develop their own scripts, produce short films, edit, distribute and market their work online. Student voice is emphasized. Individuals are encouraged to submit quality work to our annual Student Film Festival as well as the BC Student Film Festival.

## **THEATRE LIVE STREAMING 11/12**

### **Gr 11 (MDRTP11-LS) / Gr 12 (MDRTP12-LS)**

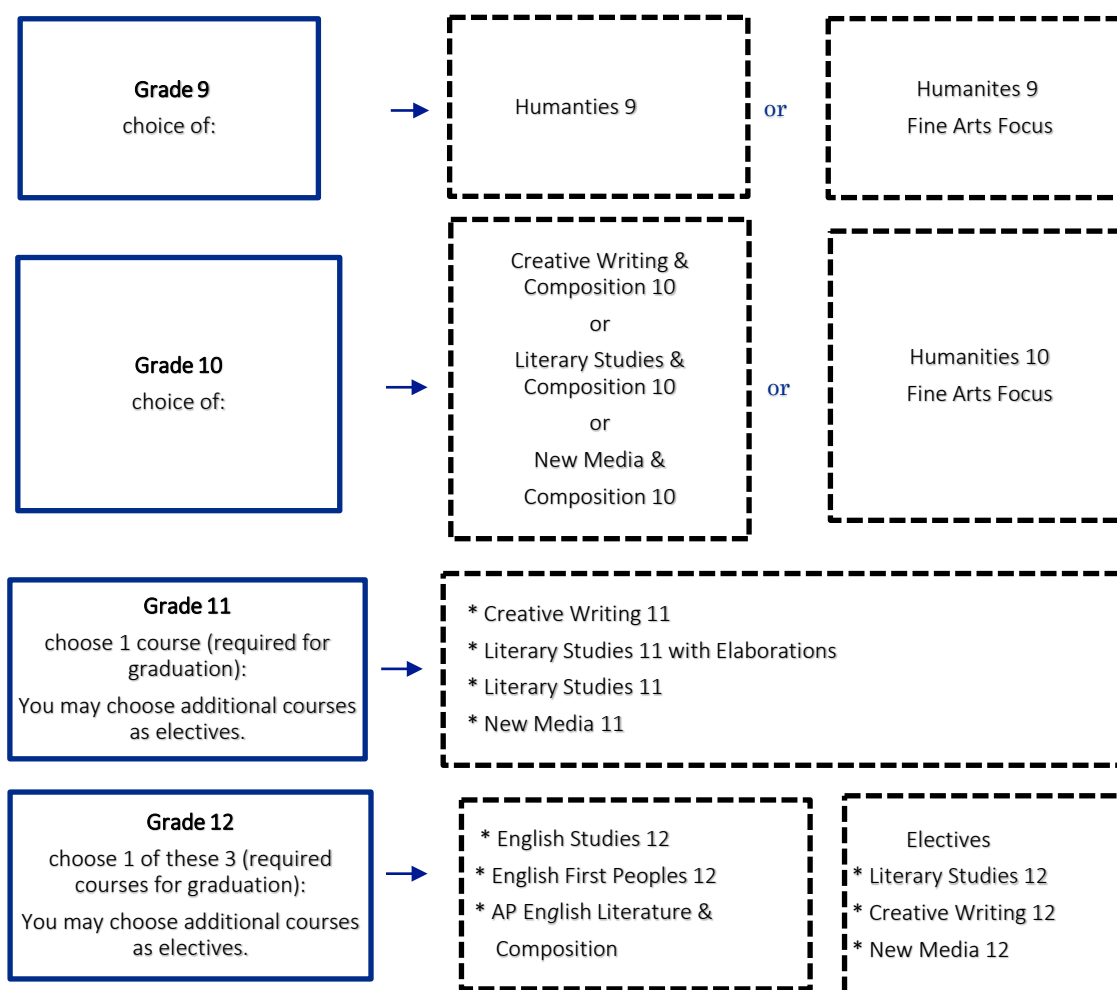
Prerequisite: Film and TV 10 or 11

Streaming is a dynamic challenging course suited to self-starting video technical oriented students who will be expected to stream several different events in and around the school. These events could include: Assemblies such as the Principal's reception, awards night and Theatre Productions, music concerts, dance recitals, and sports such as basketball, football, and volleyball. A production that the student will also be expected to work on is the News magazine show.





# ENGLISH LANGUAGE ARTS



\* New Media & Composition 10 and New Media 11/12 not applicable to 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--09FA)

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 will take two English 10 courses: Composition 10 (a requirement for all students) and their choice of Creative Writing 10, Literary Studies 10, and New Media 10. 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. Those students wishing to take English 11 Honours should choose Literary Studies 10 as their English 10 option.

### CREATIVE WRITING AND 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 AND 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.

### 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.

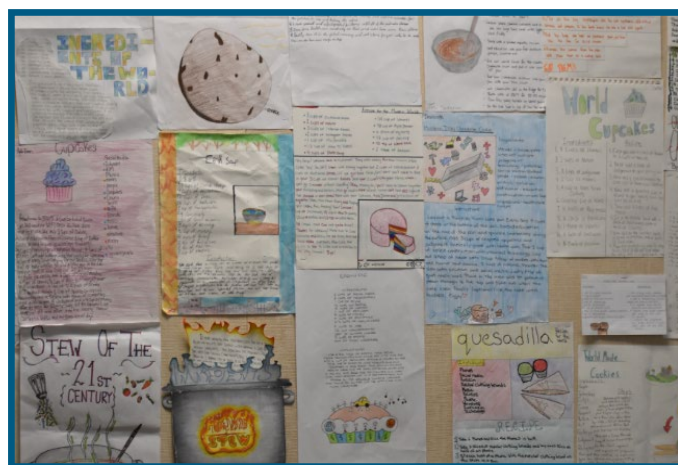


## HUMANITIES (ENGLISH) 10 FINE ARTS (MLTST10-FA)

Prerequisite: English 9 or English 9 Fine Arts

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.



"You can make anything by writing."  
-C.S. Lewis-

## ENGLISH 11 OPTIONS

### CREATIVE WRITING 11 (MCTWR11)

Prerequisite: It is strongly recommended that students have taken Creative Writing and Composition 10

Creative Writing 11 is designed for students who are interested in developing confidence and refining their writing skills through self-expression for various creative purposes. The course provides students with in-depth opportunities to explore personal and cultural identities, memories, and stories in a wide range of genres, which may include short fiction, poetry, non-fiction (columns, news articles, reviews, advertisements, etc.), drama, screenplays, novellas, memoirs, and other media. Within a supportive community, students will collaborate and strengthen their skills through writing and design processes. Creative Writing 11 is grounded in the exploration and application of writing processes, inviting students to express themselves creatively as they reflect on, adjust, and extend their writing skills.

### LITERARY STUDIES 11 (MLTST11)

Prerequisite: It is strongly recommended that students have taken Literary Studies and Composition 10

Literary Studies 11 allows students to delve deeply into literature. Students can explore specific themes, periods, authors, or areas of the world through literary works (fiction and non-fiction) in a variety of media. Giving students the opportunity to study a range of literary topics allows them to follow their passion and at the same time: increase their literacy skills through close reading of appropriately challenging texts, enhance their development of the English Language Arts curricular competencies, both expressive and receptive, expand their development as educated global citizens, develop balance and broaden their understanding of themselves and the world, and develop higher-level thinking and learning skills.



Students **must select at least one** of the following options:

### LITERARY STUDIES WITH ELABORATIONS 11 (MLTST11-E)

Prerequisite: It is strongly recommended that students achieve a B or better in their English 10 course

This enriched English course, which requires students to have approved entry, covers the English 11 Focused Literary Studies curriculum, but focuses on utilizing more mature literature resources that challenge students to think analytically and critically. Students will explore specific themes, periods, authors, or areas of the world through literary works (fiction and non-fiction) in a variety of media, increasing their literacy skills

through close reading of appropriately challenging thematic texts. In doing so, they will expand their development as educated, global citizens and broaden their understanding of themselves and the world. The course reviews basic essay writing skills, but moves beyond this to look at different writing styles. Students with a strong work ethic take this course as it is intended for those planning on university or college. It also prepares students to take AP English Literature & Composition 12 in their grade 12 year. There is a final assessment at the end of the course.

### NEW MEDIA 11 (MNMD-11)

**(NOT FOR NCAA BOUND STUDENTS)**

Prerequisite: It is strongly recommended that students have taken New Media and Composition 10

New Media 11 is a program of studies designed to reflect the changing role of technology in today's society and the increasing importance of digital media in communicating and exchanging ideas. This course is intended to allow students and educators the flexibility to develop an intensive program of study, including journalism and publishing, media and film studies, and digital communication, centered on students' interests, needs, and abilities, while at the same time allowing for a range of local delivery methods. New Media 11 recognizes that digital literacy is an essential characteristic of the educated citizen. Coursework is aimed at providing students with a set of skills vital for success in an increasingly complex digital world by affording numerous opportunities to demonstrate understanding and communicate increasingly sophisticated ideas through a wide variety of digital and print media. Compared with New Media 10, New Media 11 features tasks and texts of greater complexity and sophistication. As well, the Grade 11 course extends the depth and breadth of topics and activities offered in New Media 10.

## AP ENGLISH LITERATURE & COMPOSITION

Prerequisite: B or better in an English 11 course – preferably in Literary Studies with Elaborations

This **12-credit course** covers the learning outcomes for three courses: **Advanced Placement Literature & Composition 12, English Studies 12, and Literature 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 \$125 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)

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. A Shakespearean play will be studied.

### LITERARY STUDIES 12 (MLTST12)

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.

## CREATIVE WRITING 12 (MCTWR12)

Prerequisite: B or better in an English 11 – Creative Writing 11 recommended

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.

## ENGLISH STUDIES 12 (MENST12)

Prerequisite: An English 11 option

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. A Shakespearean play will be studied.





## ENGLISH FIRST PEOPLES 12 (MENFP12)

Prerequisite: Any English 11 course

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.

## LITERARY STUDIES 12 (MLTST12)

Prerequisite: C+ or better in any 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. modern times. It is not a substitute for English 12. In Literature 12, major English poets, essayists, novelists, and playwrights

## NEW MEDIA 12 (MNMD-12)

Prerequisite: It is strongly recommended that students have taken New Media 11 (**Not for NCAA bound students**)

New Media 12 is a program of studies designed to continue reflecting on the changing role of technology in today's society and the increasing importance of digital media in communicating and exchanging ideas. This course is intended to allow students and educators the flexibility to develop an intensive program of study, including journalism and publishing, media and film studies, and digital communication, centered on students' interests, needs, and abilities, while at the same time allowing for a range of local delivery methods. New Media 12 recognizes that digital literacy is an essential characteristic of the educated citizen. Coursework is aimed at providing students with a set of skills vital for success in an increasingly complex digital world by affording numerous opportunities to demonstrate understanding and communicate increasingly sophisticated ideas through a wide variety of digital and print media. Compared with New Media 11, New Media 12 features tasks and texts of greater complexity and sophistication. As well, the Grade 12 course extends the depth and breadth of topics and activities offered in New Media 11.

# HOME ECONOMICS

## 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 & 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.



## INTERNATIONAL FOODS 10 (YHEC-OF)

Prerequisite: None

An introductory foods course that will focus on international cuisines while studying the how and why of food preparation and service. A variety of foods, flavour profiles, and techniques from various cultures in Canada and around the world will be introduced including recipes such as Irish Soda Bread, Turkish Borek, Cajun Jambalaya, Mexican Enchiladas, Greek Pita Bread, and more. Special events may include designing a Food Truck and menu with an ethnic focus and a G.W.G. Kitchen Master competition. This course is offered in alternate years with Food Studies 10.



## FOOD STUDIES 11 (MFOOD11)

Prerequisite: Food Studies 10 and/or International Foods 10

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 impress even the pickiest eater. 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 food patterns of regional groups within Canada. 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. Special event: Holiday recipes and cooking competitions.



## FOOD STUDIES 12 (MFOOD12)

Prerequisite: Food Studies 10 and/or Foods 10 International and/or Food Studies 11

Take your food preparation skills to the next level! This course emphasizes the ability to use nutritional information, menu planning and advanced skills in food preparation to prepare recipes that will excite any aspiring chef. A culinary adventure! Students will learn about cultural foods and use authentic tools, equipment, and ingredients to make dishes from a variety of cuisines found around the world. Students will also learn about current issues in food production, food service and diet patterns. Special event: "Black Box" cooking challenges to design their own dish.

## SPECIALIZED FOODS 12 BAKING & PASTRY (MSPSF12)

Prerequisite: Food Studies 11 or 12 or teacher's permission

This advanced food class is a course for the baking enthusiast who has a personal interest in specialty baking. This course will offer advanced training and will expand your skills and help you prepare food with professional results that look and taste great. If you want to learn more about bakeshop management, including specialized tools and equipment, control of the baking process, chemical leavening agents, and the planning and preparation of numerous types of pastries, breads, specialty desserts and cakes, this is the course for you. The fundamental baking skills you'll learn in this course will hone your skills whether you want to work within a large company or pursue your own baking business.

## FASHION & DESIGN 10 (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 (MTXT-11)

Prerequisite: Fashion & Design 10 highly recommended

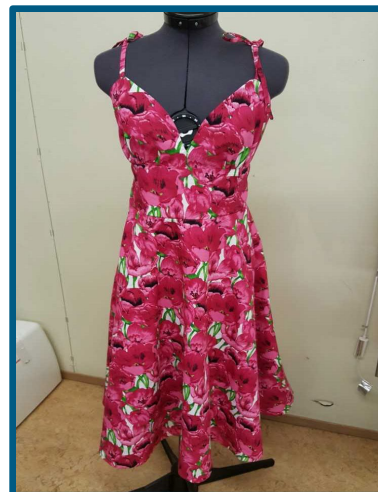
If you are just learning to sew or have completed Fashion 10, this is the course for you! Learn about design and fabrics and how to work with them to develop and reflect your own personal style. Students will be introduced to more advanced sewing techniques and use of commercial patterns. Projects will 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 (MTXT-12)

Prerequisite: Fashion & Design 11 or teacher's permission

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.



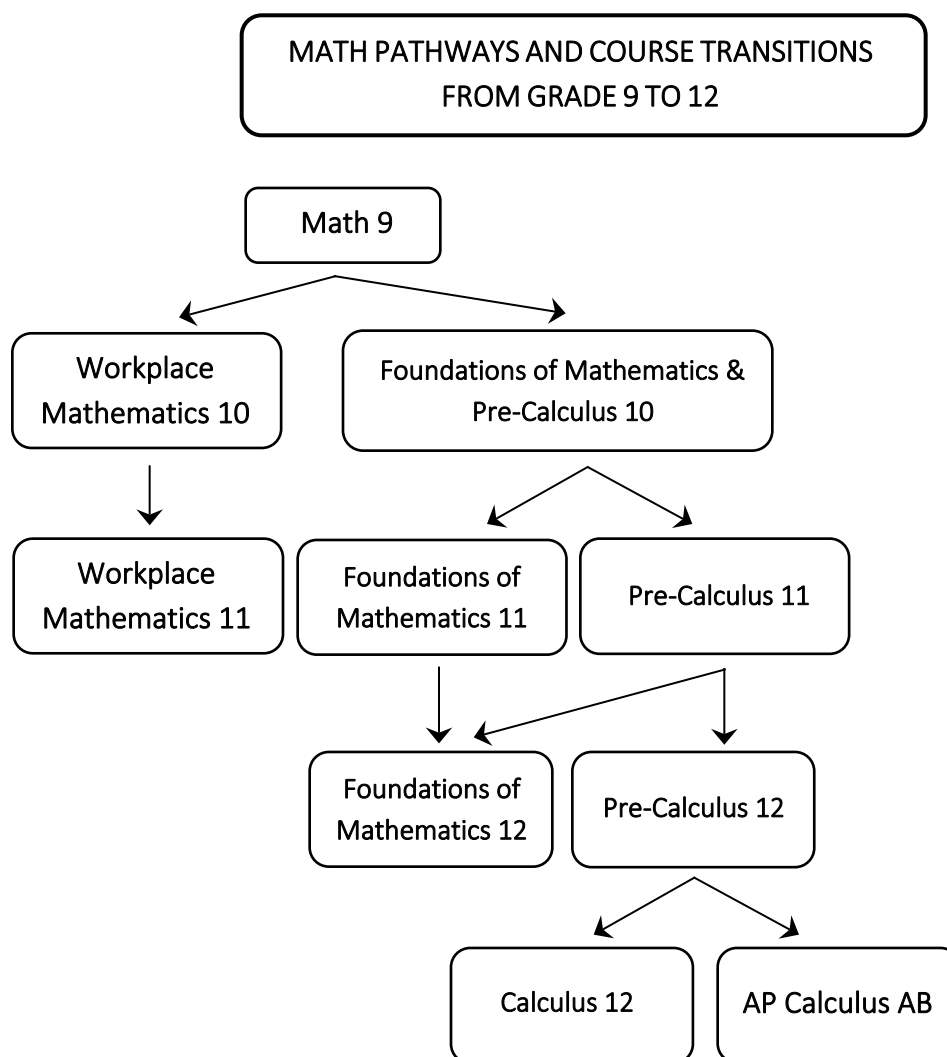
## FASHION INDUSTRY 12 (MFIND12)

Prerequisite: Fashion & Design 11 or 12 or teacher's permission

Are you interested in taking your design and sewing skills to the next level? What about a career in the fashion industry? This course is for the Grade 10-12 student who has completed Textiles 11 and/or 12 and would like to further explore the fashion industry, textile or fashion design and pattern development. Projects will be determined by the student's personal interests in consultation with the teacher and will include fashion sketching, exploration of influences on design, and industry considerations (supply chains, marketing and merchandising, environmental impacts, etc.). Students will design a "collection" of textile items or garments and construct some items from that collection. Students interested in textile design may design and create collections of purses, backpacks, quilts, stuffed animals, hiking gear, fabric furniture, etc. Students with an interest in fashion design may create a collection geared toward a specific market (swimwear, grad dresses, athletic wear, etc.). Some materials will be provided for smaller projects; students may be asked to supply patterns, fabric, and notions for larger projects.

# MATHEMATICS

Mathematics is a requirement for secondary school graduation through to Grade 11. 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. **In order to be successful, regular home study and homework completion is expected of all students.**



**Note:** 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.

## 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

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  $\frac{3}{-} = \frac{24}{-}$

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:  $2x(5 - x) + 7x$

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

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

This is a very good question, and 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)

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

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 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.

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

Prerequisite: Mathematics 9 (C+ 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.

## WORKPLACE MATH 10 (MWPM-10)

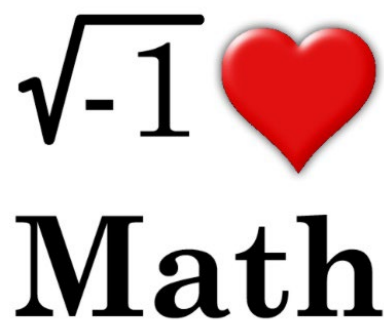
Prerequisite: Mathematics 9

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 11 (MFOM-11)

Prerequisite: Foundations of Math & 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.



## PRE-CALCULUS 11 (MPREC11)

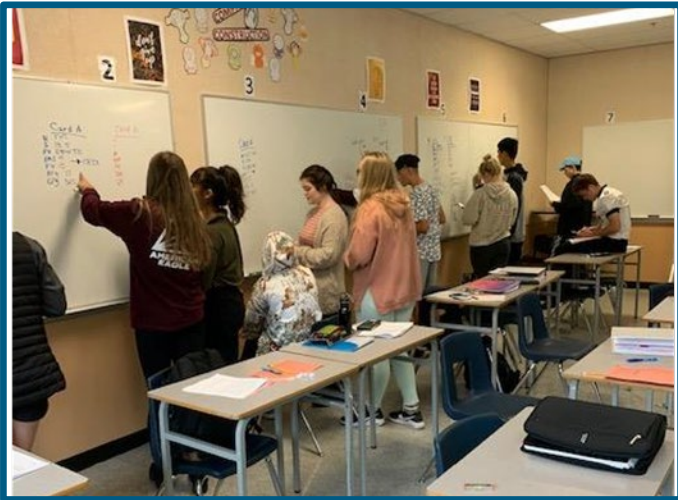
Prerequisite: Foundations of Math and Pre-Calculus 10 (B or higher recommended)

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.

## WORKPLACE MATH 11 (MWPM-11)

Prerequisite: Workplace Math 10 (or Foundations of Math & Pre-Calculus 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.



## 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.



## 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 SFU or 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 2020, the cost of this exam was \$100. Please go to the following websites for more information:

[outreach.math.ubc.ca/](https://outreach.math.ubc.ca/)

[outreach.math.ubc.ca/calc\\_challenge.html/policies.php](https://outreach.math.ubc.ca/calc_challenge.html/policies.php)

## 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. As of December 2021, the cost of the exam is approximately \$125.00 CAD.

Course Cancelled for 2022-23



## 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 cost of \$125.00 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

**Note: Students who are planning to attend university may require a Grade 11 language credit for admission.**

## FRENCH 9 (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. 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. The primary focus in Grade 9 is to prepare the student for grade 10 French, by developing a foundation of knowledge and applicable skills to succeed at the next level.

## FRENCH 10 (MFR--10)

Prerequisite: French 9

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 speaking and written assessment at the end of semester.

## FRENCH 11 (MFR--11)

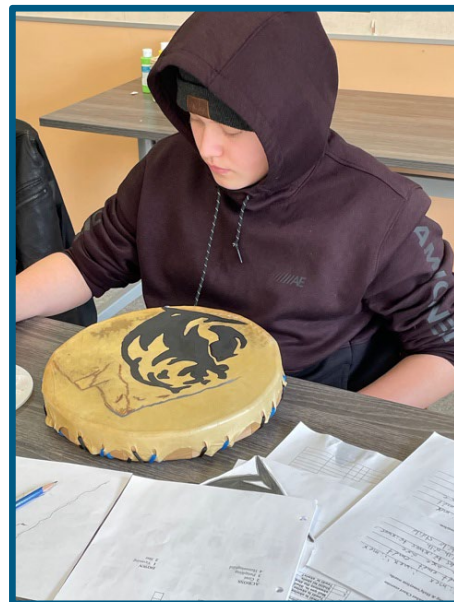
Prerequisite: French 10

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. There is a final speaking and written assessment.

## FRENCH 12 (MFR--12)

Prerequisite: Recommend C+ or better in French 11

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. Student's knowledge of the francophone world expands as do their future travel opportunities in the target language! Students are well on their way to meeting the goal of functional bilingualism as they complete French 12.



## HALQ'EMÉYLEM 10-12

Prerequisite: None

### GR 10/11/12 (MHALQ10 / MHALQ11 / 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 11 (YLOE-1A)

Prerequisite: None

Are you dreaming of the days when you can travel freely again? 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 Italian. The course is designed to prepare students for international travel.

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!



## SPANISH 9 (MSP--09)

Prerequisite: None

Spanish 9-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 10 (MSP--10)

Prerequisite: Spanish 9

Successful completion of Spanish 9-Level 1 is foundational to succeed in Spanish 10-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 11 (MSP--11)

Prerequisite: Spanish 10

Students will build on their experience in Spanish 10-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 12 (MSP--12)

Prerequisite: Spanish 11

Successful completion of Spanish 11-Level 3 is required to succeed in Spanish 12-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.

# MUSIC

## CHOIR 9 – 12

Prerequisite: None

**GR 9 (MMU-09CH)**

**GR 10 (MMUCH10)**

**GR 11/12 (MCMCC11 / 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 (MMU--09 / MMUCB10)

Prerequisite: Band 8 or permission of Instructor

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, attendance, concerts, assignments, practicing, and general effort. All performances are mandatory.

## CONCERT BAND 11/12 (MIMCB11 / MIMCB12)

Prerequisite: Band 9, 10 and/or 11 or permission of Instructor

Band 11/12 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 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, attendance, concerts, assignments, practicing, and general effort. All performances are mandatory.

## INTRODUCTORY GUITAR 10 – 12

Prerequisite: None

**GR 10 (MMUGT10-I)**

**GR 11/12 (MIMG-11-I / 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.

## INTERMEDIATE GUITAR 10 – 12

Prerequisite: Knowledge of open chords, basic music theory, and the ability to play single note melodies

**GR 10 (MMUGT10)**

**GR 11/12 (MIMG-11 / 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.



## INSTRUMENTAL SURVEY 11/12 Gr 11 (YVPA-10) / Gr 12 (YVPA-20)

Prerequisite: Band 10/11 **and** permission of the instructor. This course must be taken concurrently with Concert Band

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.

## JAZZ BAND 9/10 Gr 9 (MMU--09JB) / Gr 10 (MMUJB10)

Prerequisite: Application and audition. Jazz Band must be taken concurrently with Concert Band

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 p.m. and Wednesdays from 7–8 a.m. Students will be assessed through performance tests, class participation, concerts, assignments, practicing, attendance and general effort. All performances are mandatory.

## JAZZ BAND 11/12 Gr 11 (MIMJB11) / Gr 12 (MIMJB12)

Prerequisite: Application and audition. Jazz Band must be taken concurrently with Concert Band

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, attendance and general.

## MUSIC PRODUCTION AND RECORDING ARTS 11/12 Gr 11 (MMUCP11-RA) / Gr 12 (MMUCP12)

Prerequisite: None

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 10/11/12 (MMUOR10 / MMUOR11 / MMUOR12)

This course is designed to introduce students to the orchestral strings (violin, viola, cello, and double bass) and to enhance the skills of students who have previous experience with orchestral strings. Students will develop their skills on their chosen string instrument while learning to read music notation and participating in a String Orchestra. Home practice is required and practice records will be assigned for beginning students. Students will be assessed through attendance, class participation, performance tests, and assignments. All performances are mandatory.

## PEP BAND 10 – 12 (MMUCM10 / MMUCM11 / MMUCM12)

Prerequisite: This course must be taken concurrently with Concert Band 10-12

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.

Course Cancelled for 2022-23



## CHORAL MUSIC: VOCAL JAZZ 9 – 12

Prerequisite: Application and Audition

GR 9 (MMU--09VJ)

GR 10 (MMUVJ10)

GR 11/12 (MCMJV11 / MCMJV12)

Vocal Jazz is a performance course with students developing their vocal skills in predominantly the jazz idiom. The ensemble will study a wide variety of music including swing, Latin, rock, pop and musical theatre. Home practice is required. This course is held outside the timetable one day a week from 2:40 – 4:15 p.m. and during Tutorial. Evaluation will be assessed through class participation, attendance, concerts, assignments, performance testing and general effort. All performances are mandatory.



## PHYSICAL AND HEALTH EDUCATION (PHE)

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 in any grade may take more than one PHE course throughout the school year.

### OUTDOOR EDUCATION 11/12 (OTT) GR 11 (MODED11) / GR 12 (MODED12)

Prerequisite: Application and Instructor approval

See description in under *Specialty Programs* on page 20



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

Prerequisite: PHE 8

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: Any PHE 9 Course

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 Gr 11 (MACLV11) / Gr 12 (MACLV12)

Prerequisite: (Gr 11) PHE 10, PHE Leadership 10  
(Gr 12) Active Living 11, PHE Leadership 11

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 & 10. Evaluation is based upon fitness assessment, skills, knowledge (written assignments/quizzes), effort, sportsmanship and class participation.

## FITNESS & CONDITIONING 11/12 Gr 11 (MFTCD11) / Gr 12 (MFTCD12)

Prerequisite: C+ standing in previous PHE course

Fitness & Conditioning 11/12 is a course for students interested in learning about and participating in a variety of on and off campus recreational fitness activities such as spin classes, cardio/core classes, yoga, Pilates, cardio kickboxing, Zumba, stretching, in addition to strength and conditioning 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.

## PHE LEADERSHIP 9 - 12

Prerequisite: Minimum B grade in previous PHE class, and recommendation from previous PHE teacher

**GR 9/10 (MPHE-09 LD / MPHED10 LD)**  
**GR 11/12 (MACLV11-LD / 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 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 or a senior Elective credit.

## BASEBALL PROGRAM

Prerequisite: Minimum B grade in previous PHE class or a recommendation from previous PHE teacher

**GR 9/10 (MPHE--09BSE / MPHED10-BSE)**  
**GR 11/12 (MACLV11-BSE / MACLV12-BSE)**

See description under *Specialty Programs* on page 21



## PHE BASKETBALL 9 – 12

Prerequisite: Minimum B grade in previous PHE class or a recommendation from previous PHE teacher

**GR 9/10 (MPHE-09BB / MPHED10-BB)**

**GR 11/12 (MACLV11-BB / MACLV12-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 grade in previous PHE class or a recommendation from previous PHE teacher

**GR 9/10 (MPHE-09 / MPHED10)**

**GR 11/12 (MACLV11-FB / 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 VOLLEYBALL 9 – 12

Prerequisite: Minimum B grade in previous PHE class or a recommendation from previous PHE teacher

**GR 9/10 (MPHE-09VB / MPHED-10VB)**

**GR 11/12 (MACLV11-VB / 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.

## PHE SOCCER 9 – 12

Prerequisite: Minimum B grade in previous PHE class or a recommendation from previous PHE teacher

**GR 9/10 (MPHE-09SO / MPHED-10SO)**

**GR 11/12 (MACLV11-SO / 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. Students are encouraged to purchase Graham athletics training gear for this class. Clothing orders take place in June.



Course Cancelled for 2022-23

## PHE RUGBY 9 – 12

Prerequisite: Minimum B grade in previous PHE class or a recommendation from previous PHE teacher

**GR 9/10 (MPHE-09RU / MPHE10-RU)**

**GR 11/12 (MACLV11-RU / 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.

## STRENGTH & CONDITIONING 11/12 Gr 11 (YHRA-1C) / Gr 12 (YHRA-2C)

Prerequisite: C+ standing in previous PHE course

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:

- o understanding the science of weight training.
- o designing and assessing general fitness programs.
- o understanding fitness and weight training safety.
- o demonstrating proper technique in a variety of lifts and exercises.
- o developing an understanding of lifetime fitness and nutrition.
- o being exposed to and participating in a variety of conditioning activities.
- o 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 11. Learning will be similar to the grade 11 course; 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 & CONDITIONING 11/12 OTT Gr 11 (YHRA-1COT) / Gr 12 (YHRA-1COT)

Prerequisite: Minimum B grade in previous PHE class or a recommendation from previous PHE teacher

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:

1. Elite Junior and Senior Varsity athletes that want to add to their current training program.
2. 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.

## SPORTS MEDICINE 11 (YHRA-1D)

Prerequisite: Successful completion of Science 10, PHE 10, and permission from instructor

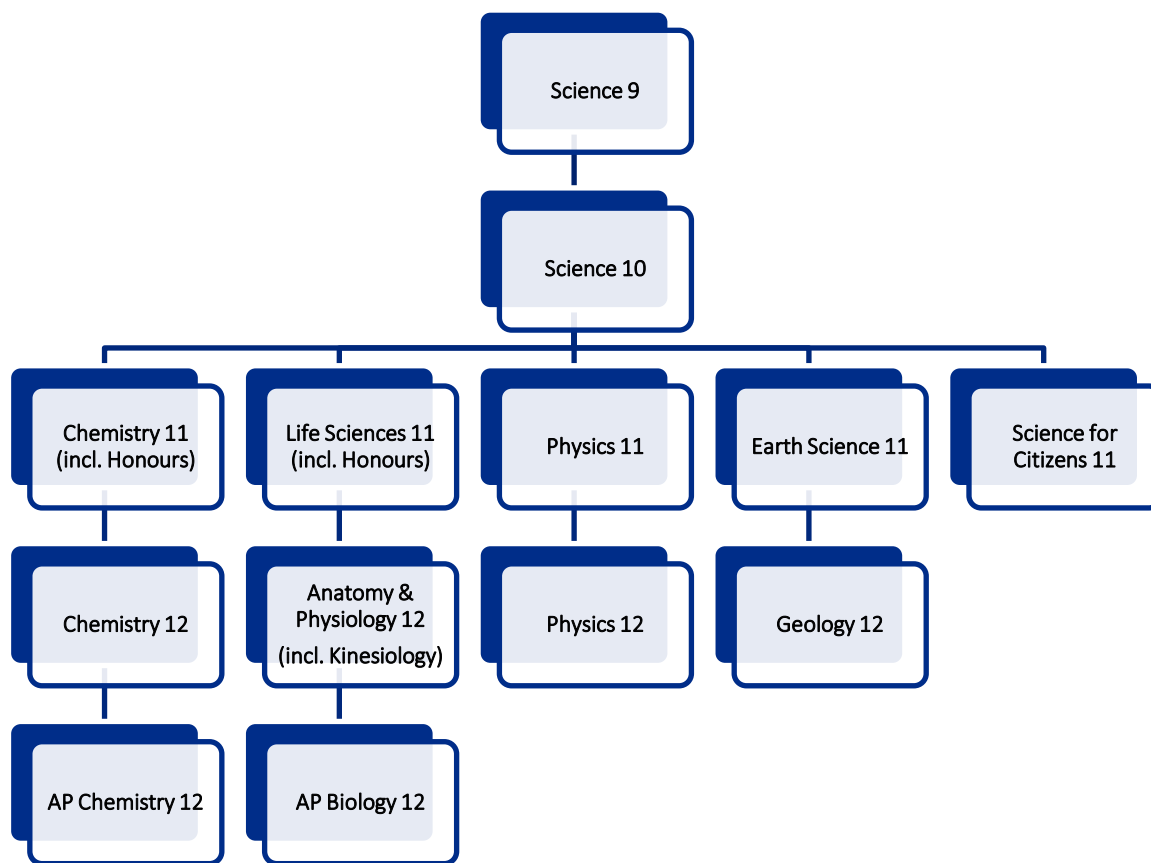
This course is designed to introduce students to a variety of careers in Sports Medicine, Athletic Therapy, Physiotherapy, Occupational Therapy, Nursing, Chiropractic, Medicine, Kinesiology, Physical Education, Fire Fighting, Pro Athlete/Coaching, Paramedic, Massage Therapy, or any other of the many 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.

## 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.

# 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).





## LIFE SCIENCES 11 (MLFSC11)

Prerequisite: Science 10

Life Sciences 11 (Biology 11) focuses on both the unity and diversity of life on earth, emphasizing on the evolution of species. Course topics include taxonomy, evolution, ecology, microbiology, plant biology, and animal biology. Laboratory dissection of a variety of animals is a key component of the course. Students are evaluated using a variety of practical laboratory experiments, formal laboratory reports, projects, assignments, quizzes and tests, including a final course exam.

## LIFE SCIENCES 11 HONOURS (MLFSC11-H)

Prerequisite: "A" or "B" in Science 10

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

## ANATOMY & PHYSIOLOGY 12 (MATPH12)

Prerequisite: Life Sciences 11

Anatomy and Physiology (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: Life Sciences 11 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.

## AP BIOLOGY 12 (ABIO-12)

Prerequisite: "A" or "B" in Biology 11 Honours and Completed Chemistry 11

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 Biology 11 Honours and have completed Chemistry 11 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.

## 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 of 80% or better in Science 10, recommendation from a Science 10 teacher, and 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 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/Corequisite: 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.

## EARTH SCIENCE 11 (MESC-11)

Prerequisite: Science 10 and Mathematics 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. Earth Science 11 may be taken as a terminal senior science course fulfilling graduation requirements in science, or as a Recommended: 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 worth 30% of the course mark.

## GEOLOGY 12 (MGEOL12)

Prerequisite: Earth Sciences 11

Geology 12 begins the pathway to pursuing a diploma or degree in natural resources. Careers in natural resources may include: Environmental Consultant, 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, and metamorphic rocks. This leads to understanding Western Canada's geology and its natural resources. Earth Science 11 recommended.

## PHYSICS 11 (MPH--11)

Prerequisite: Science 10 – recommended that student has a strong background in mathematics and is 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



## PHYSICS 12 (MPH--12)

Prerequisite: Physics 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.

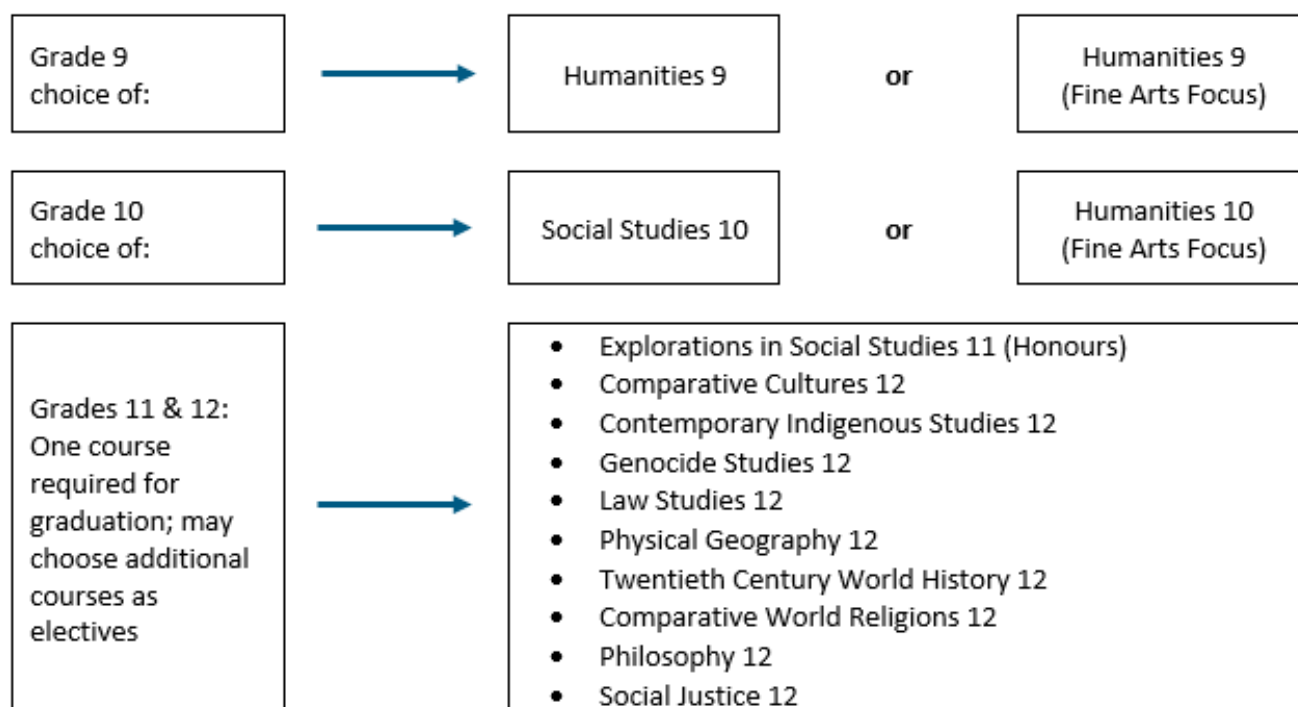
## SCIENCE FOR CITIZENS 11 (MSCCT11)

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 resources.

# 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.



Course Cancelled for 2022-23

## SOCIAL STUDIES 10 (MSS--10)

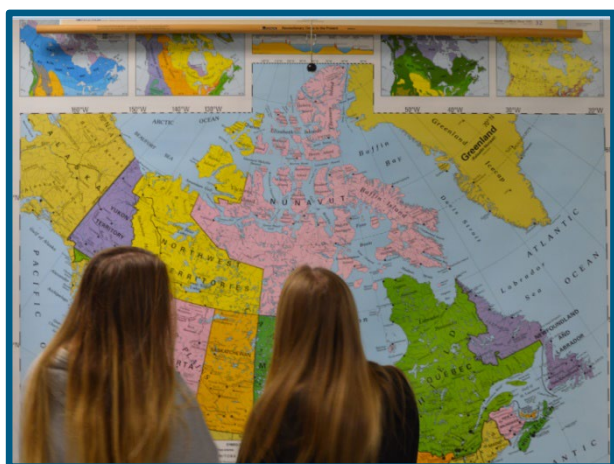
Prerequisite: Social Studies 9 or Social Studies 9 FA

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: Social Studies 9 Social Studies 9 FA

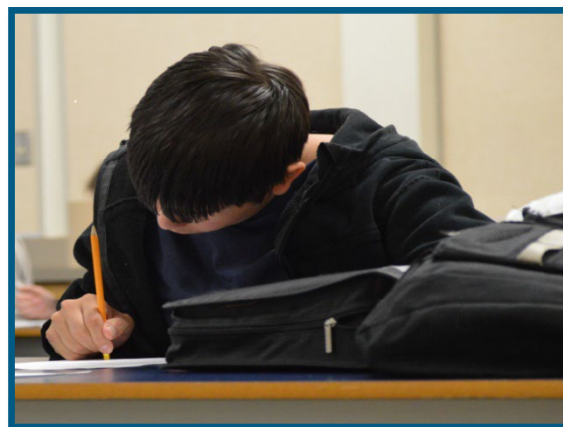
This program combines all the learning outcomes of Composition/Focused Literacy Studies 10 and Social Studies 10 in a blended, cross-curricular format. Students will comprehend and make connections to a variety of texts, as well as create their own texts and learn to communicate effectively in a wide 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.



## EXPLORATIONS IN SOCIAL STUDIES 11 – HONOURS (MEPSS11)

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.

## CONTEMPORARY INDIGENOUS STUDIES 12 (MINST12)

Prerequisite: 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.

## GENOCIDE STUDIES 12 (MGENO12)

Prerequisite: 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 (MPHIL12)

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 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.

# TECHNOLOGY EDUCATION

See page 23 for more information about specialty trades programs.

## DRAFTING 10 (MTDRF10)

Prerequisite: None

Drafting and Design 10 is an introductory course where students will learn the basics of technical drawing through sketching, hand drafting, and Computer Aided Drafting (CAD) software. Students will learn through conventional drafting exercises, as well as several projects aimed at progressing their design skills. Some projects include a 3D printed phone stand, vinyl cut stickers, ping-pong ball launcher, CNC sign, and a cabin floor plan. Skills learned in Drafting 10 can be applied to several future courses and occupations: Architecture, Engineering, Interior design, and trades to name a few.

## DRAFTING 11 (MTDRF11)

Prerequisite: Drafting 10

Drafting and Design 11 is an intermediate level course that builds upon the drafting basics learned in Drafting and Design 10. Students will advance their skills in technical drawing through several hand and Computer Aided Drafting exercises and design projects. Students will learn the basics of mechanical 3D modeling through AutoDesk Inventor, a professional, industry standard software. Projects include: Architectural floor plans and product design through CNC machining and 3D printing.

## DRAFTING 12 (MTDRF12)

Prerequisite: Drafting 11

Drafting and Design 12 is a senior level course that will have students advancing their skills in drafting, 3D modeling, and design through a number of advanced assignments. Students will have opportunities to design solutions to many problems, creating plans and turning their designs into reality. Students have the opportunity to design architecture, furniture, and solve problems in product design with the use of 3D printers, CNC machines, vinyl cutters and more!

## ENGINEERING 11 (MENR-11)

Prerequisite: Recommended Drafting 10, Electronics and Robotics 10, Computer Studies 10, C+ or better in Math 10

**New for 2022!** Engineering 11 is an exciting new program where students have the opportunity to 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 Engineering 11 and students will get a solid foundation while working with design software, and modern manufacturing machinery like CNC machines. Skills learned in this course can lead into careers in manufacturing, design, and various fields of Engineering.

## ELECTRONICS & ROBOTICS 10 OR ROBOTICS 11

See *Business and Computers* Section - page [33](#)

## METALWORK 10 (MTMET10)

Prerequisite: None

The entry-level metalwork 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. 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 be creating projects from a set of drawings with less step-by-step instructions to develop their critical thinking skills in this course. Students will use the lathe mill machine, various welding techniques, and CNC plasma. 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 & 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: None (Instructor permission recommended if Woodwork 10 was not completed)

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 & 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.

## OTHER LEARNING OPPORTUNITIES

### 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 Gr 11 (MDCF-11) / Gr 12 (MDCF-12)

Prerequisite: Previous dance experience and/or Dance 10 recommended

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.



### LEADERSHIP 9 – 12

Prerequisite: Application required and consistently good or satisfactory work habits

GR 9/10 (XLEAD09)

GR 10/11/12 (YIPS-0A/YIPS-1A/YIPS-2A)

The Leadership 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.

### 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 (YPSYC2A)

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.

## YEARBOOK 9 – 12

Prerequisite: Permission of Instructor

GR 9 (XYP--09)

GR 10 (YCCT-0F)

GR 11/12 (MGRPR11 / 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 9 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 will meet afterschool two times per week.





