G. W. 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.
# Table of Contents

Student Services ................................................................................................................................. 3  
Courses Offered ................................................................................................................................. 11  
Course Descriptions .......................................................................................................................... 16  
Specialty Programs ............................................................................................................................ 17  
  Advanced Placement Courses and Secondary Honours Classes .................................................. 17  
  Career Education .............................................................................................................................. 19  
  GrahamX ......................................................................................................................................... 20  
  Trades Sampler ................................................................................................................................. 21  
  Youth Train in Trades – Carpentry .................................................................................................. 22  
  ita Youth Train in Trades ................................................................................................................ 23  
  ita Youth Work in Trades ................................................................................................................ 24  
  Outdoor Education ........................................................................................................................... 25  
  Sport Specific Physical and Health Education ................................................................................ 26  
Art ....................................................................................................................................................... 27  
Business and Computers ..................................................................................................................... 29  
Drama .................................................................................................................................................. 31  
English Language Arts ......................................................................................................................... 33  
Home Economics ............................................................................................................................... 38  
Mathematics ....................................................................................................................................... 41  
Modern Languages .............................................................................................................................. 47  
Music ................................................................................................................................................. 48  
Physical and Health Education ............................................................................................................ 51  
Sciences .............................................................................................................................................. 56  
Social Studies ..................................................................................................................................... 60  
Technology Education ......................................................................................................................... 63  
Other Learning Opportunities .............................................................................................................. 65
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 counselor.

NOTE: All elective courses are subject to sufficient enrollment. Courses will only run if there are sufficient students requesting the course.
There are a number of support/resource/programs offered within GW Graham Secondary and at the Chilliwack School District office. Descriptions of some of these specialized services are listed on the following pages. To find out more about them, contact your school counselor or administrator.
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: www.myblueprint.ca; www.educationplannerbc.ca; www.bced.gov.bc/exams; and college/university websites. Check the school website for information. 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. Email your career advisor for an appointment:

Ms. Hari  kerri-lyn_hari@sd33.bc.ca

COUNSELING SERVICES
School counselors 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 counselors alphabetically by last name. Please email your counselor to make an appointment:

A-G  Ms. Clarke  beth_clarke@sd33.bc.ca
H-N  Ms. Mussell  maryanne_mussell@sd33.bc.ca
O-Z  Ms. Hancock  kim_hancock@sd33.bc.ca

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

- Hospital Homebound Program: for students who are missing school for a period of 2 - 8 weeks as prescribed by their doctor. A note from the doctor is required. The HH teacher works with the classroom teachers to facilitate missed instruction and assignments for the period of time the student is unable to attend classes. Absence that is prescribed for more than 8 weeks may require an alternative program instead of HHP. Contact your counsellor for information.
- Youth Care Worker: the YCWs are site-based and under the direction of the students counsellor. The YCWs work in partnership with teachers, counselors, parents, support staff, and community agencies.
- Drug and Alcohol Counseling: a community CYMH counselor is based at GWG 2 days per week to provide confidential counseling regarding substance use and misuse.
- Ann Davis Society: clinicians from AD are available at GWG 2 days a week to provide confidential counseling regarding personal social/emotional concerns.
- Chilliwack Youth Health Center: a drop-in service for all youth 12-26 years of age at the Sto:lo Nation Health Center. For information call 604-819-4603 to find out what free services are available, and 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.

ADVISORY/CAREER AND LIFE EDUCATION
This is a credit based requirement for graduation. The purpose of this time is twofold: firstly to deliver the Career Life Education and Career Life Connections curriculum; and secondly to support students overall academic achievement. Students utilize myBlueprint to document progress in personal and career growth. Students’ portfolios can be viewed in their www.myblueprint.ca account. Ask your son/daughter to view their portfolio.
WORK EXPERIENCE (WEX) CENTER
Volunteer or paid Work Experience is required for Graduation and students who need assistance in finding the required 30-hour placement should contact the WEX advisor, Ms. MacConnell. WEX may also be an optional 4 credit course (100 hours required) outside the student’s regular timetable. Students may access career education, training, and placements with community based employers by contacting Ms. MacConnell. WEX placements are entirely student-driven, which means that students need to take the initiative to request a placement, which are based on their preferences for type of work, location and schedule. Email your WEX teacher for information and/or placement:

Ms. MacConnell  elidh_macconnell@sd33.bc.ca

SCHOOL BASED REFERRAL TEAM (SBRT)
The School Based Referral Team - which includes Learning Assistance Teachers, Teachers, Counselors and Administrators - meets regularly to discuss strategies for success for students who may be having a variety of challenges that impact learning. Referrals to SBRT are made by the student’s Case Manager. SBRT meetings are frequently scheduled to communicate information about a student’s performance and collaborate on a plan of action for success. Smaller School-based team meetings may also be called for individual students and include the student, parent(s), counselor, administrator and the student’s teachers.

INDIGENOUS STUDENT SERVICES
The support teacher for services is Mrs. Lumsden. Ancestry is determined on a voluntary basis through self-identification and includes First Nations (Status or Non-Status), Metis or Inuit ancestry. Once Ancestry is declared, students can access a number of supports including, but not limited to, academic support; home/school communication; monitoring academic progress and attendance; graduation/scholarship bursary/post-secondary information; homework club; English as a Second Dialect; newsletter; cultural events; and a leadership conference.

Mrs. Lumsden  trisha_lumsden@sd33.bc.ca

LEARNING SUPPORT SERVICES
The Learning Support Team works collaboratively with the SBRT, district personnel, and teachers in delivering a range of support to students with diverse learning needs. Students may be scheduled into a class for academic support (LS 10, 11 or 12 for 4 credits each), or may be receiving supports within the classroom according to the student’s IEP/SSP without an LS support class. The Learning Support Teacher is considered the Case Manager for the student, which means, s/he is your first “go to” when contacting the school regarding 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
- creating and monitoring IEP’s for students

To access LS, there is a referral process, that begins either through the Case Manager (if the student already has one) or the student’s counselor or administrator.

ENGLISH LANGUAGE LEARNING
The purpose of this program is to assist students, whose first language is not English, with oral and written English so that they can more fully participate in the regular school program. The ELL program helps students to function more successfully in the community of the school.

Mr. Bhatti  ranvir_bhatti@sd33.bc.ca
RESOURCE PROGRAM
The Resource Program supports students who have an identified Category A-G and qualifies 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 academics 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 s/he has attended school and met the learning outcomes identified in his/her 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, Metal, 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 special needs. Our goal is to make the students’ experiences at GW Graham both positive and memorable. We provide support both in the classroom, in the general school environment, and in the Resource classroom. Students are introduced to the curriculum through the 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 IEP’s for students 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  brady_cameron@sd33.bc.ca
Mr. Speers  kyle_speers@sd33.bc.ca

CONNECTIONS PROGRAM
The Connections program is aimed at the individual personal development of each student that is involved, 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 our school counsellors and school based referral team meetings. For further information, contact your school counselor.

LIBRARY
The GW Graham Learning Resource Centre/Library has much to offer students. As well as several encyclopedia sets, e-books and many reference books, the students can access Ebschost, World Book encyclopedia and Britannica Online which also includes Compton’s Encyclopedia, and many other databases from any of the 30 computers in the library, from each classroom, and from home! Students also have many excellent novels to choose from in our ever expanding fiction section.
The library is open from 8 a.m. to 3:30 p.m., Monday-Friday. At the beginning of each year, a call goes out for student volunteers to join the Library Club. Student Librarians help during lunch time 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 or research and, of course, borrow a good book for pleasure reading.

All students are strongly encouraged to get a Fraser Valley Regional Library Card so that they may access many databases, homework helpers and e-books from GWG and home.

Ms. MacConnell  
eilidh_macconnell@sd33.bc.ca

QUICK REFERENCE GUIDE TO ONLINE DATABASES

On the Library main page which you can access by clicking on the Library icon on the desktop or going to destiny.sd33.bc.ca and choosing GW Graham Middle School. This will give you access to our databases and our catalogue. You can also access educational sites through web path express.

**Databases and Passwords:**

**Britannica Online:** www.school.eb.com  
User name: gwgraham  
Password: grizzlies

**Ebscohost databases:** Middle school & secondary encyclopedia, and world book encyclopedia. Updated yearly. Has web links, media clips, and teacher resources. Encourage students to check here before exploring the net for background info! It also provides access to NoveList 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. gwg.sd33.bc.ca/library  
User name: 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  
User name: grizzlystudent  
Password: gwgraham

**Google Scholar:** 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 GWG school website and clicking on the library link.  
(http://gwg.sd33.bc.ca/library)
EXTERNAL COURSE CREDITS
Students are able to earn credit for accomplishments outside of the regular classroom setting. Examples are: Young Drivers Certificate, Bronze Cross, Royal Conservatory of Music, and BC Rep Sports Teams. For a full list of creditable activities and the specific requirements necessary to be granted external credits, please refer to the Ministry website: http://www.bced.gov.bc.ca/graduation/ext_credentials/ext_cred.php or talk to your counselor.

CONCURRENT UNIVERSITY STUDIES AT UFV

Degree Granting Courses:
UFV provides an opportunity to take courses at UFV while completing grade 12 at GW Graham. Here are some of the reasons why you would consider concurrent studies:

Would you like to:

- complete grade 12 and a 1st 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 that gets you dual credits at both GWG and UFV?

For Concurrent Studies Programs check out:

Trade Discovery: https://www.ufv.ca/trades/highschool/

- Welding
- Electrical
- Carpentry/Joinery
- Automotive Mechanics
- Automotive Repair and Refinishing
- Plumbing and Piping
- Drafting
- Professional Cooks Training
2018 GRADUATION PROGRAM
MAKING A THREE YEAR GRADUATION PLAN

GRADE 10, 11 & 12 GRADUATION REQUIREMENTS

You require 80 credits minimum to graduate. **Note:** Minimum requirements may not be enough for entering programs after high school. To graduate, you must have:

- A minimum of 16 credits at the grade 12 level, 4 of which is a Language Arts 12 and the other 12 credits are from Elective choices
- At least 4 credits of either a Fine Arts or Applied Skills course at grade 10, 11 or 12 level

- CLE and CLC (Career Life Education and Career Life Connections plus Capstone Project) is mandatory
- A ministry designed Numeracy Assessment and Literacy Assessment

Completed required core courses in Social Studies, Math, Language Arts and Science. (see grade lists chart on p.10) *Career Life Education (CLE) and *Career Life Connection (CLC) are requirements for all BC Secondary school students enrolled in Grades 10, 11 or 12. These courses are intended to prepare students for their transition to life/career choices after secondary school. Both courses are 4 credits each, and are delivered during Advisory Class. For the Capstone of CLC, students must illustrate their personal and scholastic growth as they progress through and beyond high school. CLE and CLC utilize myBlueprint for documenting their growth plan. For further information, please contact the Career Education Coordinator Mr. Bhatti.

Mr. Bhatti       ranvir_bhatti@sd33.bc.ca
# GRADUATION REQUIREMENTS OUTLINE

<table>
<thead>
<tr>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
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</thead>
<tbody>
<tr>
<td><strong>Course</strong></td>
<td><strong>credit</strong></td>
<td><strong>Course</strong></td>
</tr>
<tr>
<td>Language Arts 10 (choice)</td>
<td>4</td>
<td>Language Arts 11 (choice)</td>
</tr>
<tr>
<td>Math 10 (choice)</td>
<td>4</td>
<td>Math 11 (choice)</td>
</tr>
<tr>
<td>Socials Studies 10</td>
<td>4</td>
<td>Socials Studies 11 or 12</td>
</tr>
<tr>
<td>Science 10</td>
<td>4</td>
<td>Science 11 (choice)</td>
</tr>
<tr>
<td>PE 10 (choice)</td>
<td>4</td>
<td>Elective</td>
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<td>Elective</td>
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<td>Elective</td>
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<td>Elective</td>
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<tr>
<td>Literacy 10 Assessment</td>
<td>Numeracy Assessment</td>
<td>Literacy 12 Assessment</td>
</tr>
<tr>
<td>Career Life Education 10</td>
<td>4</td>
<td>Career Life Connections 12 (1st half)</td>
</tr>
</tbody>
</table>

**Students must also complete a minimum 28 elective credits of which 12 of those credits must be at the grade 12 level.**

- Students are required to write a Provincial Numeracy Assessment and a Provincial Literacy Assessment prior to graduation.
- 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 talk to a counselor or career advisor and 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 TO GW GRAHAM STUDENTS

GRADE 9 STUDENTS must make the following selections:

1. Humanities 9 or Humanities 9 Fine Arts
2. Math 9
3. Science 9
4. Physical and Health Education 9, PHE 9 Leadership or a course from the Sport Specific PHE options
5. 3 Electives Courses

<table>
<thead>
<tr>
<th>Elective Courses offered to Grade 9 Students</th>
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<tbody>
<tr>
<td>Art 9</td>
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<tr>
<td>Choir 9</td>
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<tr>
<td>Computer Animation 10</td>
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<tr>
<td>Computer Studies 10</td>
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<tr>
<td>Concert Band 9</td>
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<tr>
<td>Dance Foundations 10</td>
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<tr>
<td>Drafting 10</td>
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<tr>
<td>Drama 10</td>
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<tr>
<td>Fashion 10</td>
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<td>Film and TV 9</td>
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<tr>
<td>Robotics 10</td>
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<tr>
<td>Foods Studies (International) 10</td>
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<tr>
<td>French 9</td>
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<tr>
<td>Jazz Band 9</td>
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<tr>
<td>Leadership 9</td>
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<tr>
<td>Media Arts 10</td>
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<tr>
<td>Media Design (Animation) 10</td>
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<tr>
<td>Metalwork 9</td>
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<tr>
<td>Orchestra 9</td>
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<tr>
<td>Outdoor Education 11 - OT</td>
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<tr>
<td>Spanish 9</td>
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<tr>
<td>Sport Specific PHE</td>
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<tr>
<td>- Baseball 9</td>
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<td>- Basketball 9</td>
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<td>- Field Hockey 9</td>
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<td>- Football 9</td>
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<td>- Rugby 9</td>
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<td>- Soccer 9</td>
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<td>- Volleyball 9</td>
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<td>Vocal Jazz 9 - OT</td>
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<tr>
<td>Woodwork 9</td>
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<tr>
<td>Yearbook 9</td>
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</tbody>
</table>

• GrahamX 9 see Page 20 (Includes Humanities, Science and PHE)
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. 3 Elective Courses

<table>
<thead>
<tr>
<th>COURSE</th>
<th>OPTIONS</th>
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<tbody>
<tr>
<td><strong>CORE COURSES</strong></td>
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<tr>
<td><strong>English 10 Options:</strong></td>
<td>Focused Literary Studies 10</td>
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<td></td>
<td>New Media 10</td>
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<td></td>
<td>Creative Writing 10</td>
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<td></td>
<td>Humanities 10 Fine Arts</td>
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<tr>
<td><strong>Math 10 Options:</strong></td>
<td>Foundations of Math and Pre-Calculus 10</td>
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<tr>
<td></td>
<td>Workplace Math 10</td>
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<tr>
<td><strong>Science 10 (required by all students)</strong></td>
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<tr>
<td><strong>Social Studies 10 Options:</strong></td>
<td>Social Studies 10</td>
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<td>Humanities 10 Fine Arts</td>
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<td><strong>PHE 10 Options:</strong></td>
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<td>Sport Specific PHE</td>
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<td>- Baseball 10</td>
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<td>- Basketball 10</td>
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<td>- Field Hockey 10</td>
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<td>- Football 10</td>
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<td>- PE Leadership 10</td>
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<td>- Rugby 10</td>
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<td>- Soccer 10</td>
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<td>- Volleyball 10</td>
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<td><strong>ELECTIVE COURSES</strong></td>
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<td>Art Studio 10</td>
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<td>Dance Foundations 10</td>
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<td>Guitar 10</td>
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<td>Halq'eméylem 10</td>
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<td>Introductory Guitar 10</td>
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<td>Foods Studies (International) 10</td>
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<td>Music Composition 11</td>
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<td>Outdoor Education 10 - OT</td>
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<td>PE 10 - Leadership</td>
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<td>Robotics 10</td>
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<td>Trades Skills Exploration 10</td>
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<td>Spanish 10</td>
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<td>Studio Arts 3D (Ceramics) 10</td>
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<td>Vocal Jazz 10 - OT</td>
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<td>Woodwork 10</td>
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<td></td>
<td>Yearbook 10</td>
</tr>
</tbody>
</table>

*Grade 10 students are also able to take grade 11 courses if the prerequisites are met*

- GrahamX 10 see Page 20 (Includes English, Social Studies, Science and PHE)
**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. 4 Elective Courses

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### Courses offered to Grade 11 Students

<table>
<thead>
<tr>
<th>CORE COURSES</th>
<th>ELECTIVE COURSES</th>
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<tbody>
<tr>
<td><strong>English 11 Options:</strong></td>
<td>Music Composition 11</td>
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<tr>
<td>Creative Writing 11</td>
<td>Orchestra 11</td>
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<tr>
<td>Focused Literary Studies 11</td>
<td>Outdoor Education 11</td>
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<tr>
<td>Focused Literary Studies with Elaborations 11 (Honours)</td>
<td>Peer Tutoring 11</td>
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<td>New Media 11</td>
<td>Pep Band 11</td>
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<tr>
<td><strong>Math 11 Options:</strong></td>
<td>Photography 11</td>
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<tr>
<td>Foundations of Math 11</td>
<td>Psychology 11</td>
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<td>Pre-Calculus 11</td>
<td>Skills Exploration 11</td>
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<td>Workplace Math 11</td>
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<td><strong>Science 11 Options:</strong></td>
<td>Sport Specific PHE</td>
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<td>Chemistry 11</td>
<td>- Baseball 11</td>
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<td>Chemistry 11 (Honours)</td>
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<td>Earth Science 11</td>
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<td>Life Sciences 11</td>
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<tr>
<td>Science for Citizens 11</td>
<td>- Soccer 11</td>
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<td><strong>Social Studies 11 Options:</strong></td>
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<tr>
<td>Social Studies 11 (Honours)</td>
<td>Sports Medicine 11</td>
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<tr>
<td>20th Century World History 12</td>
<td>Strength &amp; Conditioning 11 - Out of Timetable</td>
</tr>
<tr>
<td>Comparative Cultures 12</td>
<td>Strength &amp; Conditioning 11</td>
</tr>
<tr>
<td>Contemporary Indigenous</td>
<td>Studio Arts 2D (Drawing) 11</td>
</tr>
<tr>
<td>Comparative World Religions 12</td>
<td>Studio Arts 3D (Ceramics) 11</td>
</tr>
<tr>
<td>Studies 12</td>
<td>Theatre Production 11</td>
</tr>
<tr>
<td>Genocide Studies 12</td>
<td>Vocal Jazz 11</td>
</tr>
<tr>
<td>Law 12</td>
<td>Woodwork 11</td>
</tr>
<tr>
<td>Philosophy 12</td>
<td>Yearbook 11</td>
</tr>
<tr>
<td>Physical Geography 12</td>
<td></td>
</tr>
<tr>
<td>Social Justice 12</td>
<td></td>
</tr>
</tbody>
</table>

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* Grade 11 students are also able to take grade 12 courses if the prerequisites are met*

- GrahamX 11 see Page 20 (Includes an English, Social Studies, Science and PHE)
- Trades Sampler see Page 21
GRADE 12 STUDENTS must make the following selections:

1. English 12 Options:
   - AP English Literature and Composition 12
   - English Studies 12
   - English First Peoples 12

2. Three Grade 12 Elective options:
   - Four Other Elective Courses

Courses offered to Grade 12 Students

- 20th Century World History 12
- Active Living 12
- Active Living Leadership 12
- Anatomy & Physiology 12
- AP Biology 12
- AP Chemistry 12
- Art Studio 12
- Calculus 12
- Chemistry 12
- Child Development & Caregiving 12
- Choir 12
- Comparative Cultures 12
- Comparative World Religions 12
- Computer Animation 12
- Computer Programming 12
- Concert Band 12
- Contemporary Indigenous Studies 12
- Creative Writing 12
- Dance Foundations 12
- Digital Media 12
- Drafting 12
- Drama 12
- Entrepreneurship 12
- Environmental Science 12
- Housing & Living Environments 12
- Fashion 12
- Fashion Industry 12
- Film & TV 12
- Fitness and Conditioning 12
- Food Studies 12
- Foundations of Math 12
- French 12
- Genocide Studies 12
- Geology 12
- Geometry 12
- Guitar 12
- Halq'eméylem 12
- Instrumental Survey 12
- Introductory Guitar 12
- Jazz Band 12
- Law 12
- Leadership 12
- Literary Studies 12
- Machining and Welding 12
- Marketing and Promotion 12
- Media Arts 12
- Metalwork 12
- Music Composition 12
- New Media 12
- Orchestra 12
- Outdoor Education 12
- Peer Tutoring 12
- Pep Band 12
- Philosophy 12
- Physical Geography 12
- Physics 12
- Pre-Calculus 12
- Psychology 12
- Social Justice 12
- Spanish 12
- Specialized Foods 12
- Sport Specific PHE
  - Baseball 12
  - Basketball 12
  - Field Hockey 12
  - Football 12
  - Rugby 12
  - Soccer 12
  - Volleyball 12
- Sports Medicine 12
- Strength & Conditioning 12
- Strength & Conditioning 12 - Out of Timetable
- Studio Arts 2D (Drawing) 12
- Studio Arts 3D (Ceramics) 12
- Theatre Production 12
- Vocal Jazz 12
- Woodwork 12
- Yearbook 12

- Trades Sampler see Page 21
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 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.

1. Experience
Student 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

2. 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:
1. 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.

2. 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.

4. 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.
5. Q. Can only “A” students take Honours/AP classes?
A. No, all students are welcome to apply for an Honours class. The most successful students are hardworking, organized, mature, motivated, and positive about their learning experience.

6. 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. Teacher recommendation will be considered to determine entrance.

General information on AP Courses is also available at: http://www.collegeboard.com
Career Education at GW Graham Secondary School

Supporting students with understanding their personal strengths and connecting them to opportunities beyond high school is extremely valued at GW Graham Secondary School. Career Education is taught in all grades at GW Graham. Students utilize the myBlueprint platform for creating a digital portfolio that can be accessed throughout high school and after graduation. myBlueprint is also used for course planning and career exploration. Career Education is taught during advisory time at GW Graham although there are many opportunities for learning beyond the advisory time such as various guest presentations, the Choose BC career fair, course planning sessions with counsellors, and other career related learning experiences. These will be captured in students’ myBlueprint portfolio.

All students are required to complete the following courses for graduation:

➢ Career Life Education
➢ Career Life Connections
➢ Capstone

Below are the “Big Ideas” for Career Life Education:

| Finding a balance between work and personal life is essential to physical and mental health. | A network of family, friends, and community members can support and broaden our career awareness and options. | Learning how to learn prepares us to be lifelong learners who can adapt to changing career opportunities. | Effective career planning considers both internal and external factors. | The global economy affects our personal, social, and economic lives and prospects. | Successful career and education paths require planning, evaluation, and adapting. |

Below are the “Big Ideas” for Career Life Connections:

| Well-being requires finding a balance of personal health, relationships, work, learning, community engagement, and committed citizenship. | Being in the world and walking in the world are supported, broadened, and deepened through community involvement and the social experience of building personal networks. | Careers, education, and life opportunities change over time. | Building the skills of lifelong learning can help us adapt and thrive. | Global economies, culture, and sustainability impact and are impacted by personal choices, social choices, and the availability of personal opportunities. | Career and education paths require ongoing exploration, planning, evaluation, and adaptation. |

The Capstone Project may include components such as the following:

| Proposal: | The proposal outlines the project and includes disciplinary and core competency connections, timelines, and product. |
| Mentor: | The mentor is ideally a shared role that includes teachers and/or community members that provide guidance throughout the culminating project. |
| Research: | The research is an essential component that informs each student’s culminating project. |
| Product: | The product is the end result of the project (e.g., video, document, performance, something constructed). |
| Presentation: | The presentation can have a variety of forms and happens with an audience composed of teachers, community members and/or others connected to the student and/or their culminating project. |
GrahamX Program

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 four different cohorts: Grade 9, Grade 10, and Grade 11. Students may enroll in GrahamX for any of the cohort options as it fits their schedule and can enroll in GrahamX for one, two, or three years.

**Grade 9 Cohort (Full Year)**
- English 9
- Science 9
- Physical and Health Education 9
- Social Studies 9
- Advisory

**Grade 10 Cohort (Full Year)**
- English 10
- Science 10
- Physical and Health Education 10
- Social Studies 10
- Career Life Education

**Grade 11 Cohort (Full Year)**
- Literary Studies 11
- Life Sciences 11
- Active Living 11
- BC First Peoples 12
- Career Life Connections

**Note:** There will be a $100 program fee for each year to help offset entrance and activity fees
Explore Trades is a program designed to provide job readiness skills that will lead to employment after high school and/or access to post-secondary opportunities. Students in the Explore Trades class will embark on a rich and unique learning experience in which hands-on learning and collaboratively work with staff and students is at the core. Students will take on a wide variety of activities to build their skill set for hands-on learning. Each year the class will undertake one or two major projects where they will bring their skill sets together and work as a team. The major projects will be set up to resemble a work site experience rather than a traditional high school shop class. Along with the regular rigors of academic learning and a focus on Trades, there will be an element of challenging students to be creative problem solvers. Students will be expected to work together in group situations and lean on team members for collaborative troubleshooting and problem-solving.

The program includes a 12-week comprehensive Trades experience at the University of the Fraser Valley Trades facility. Cohorts of sixteen students leave GW Graham and attend UFV to explore various Trades opportunities available at the University. Students who achieve higher than 70% receive a certificate from UFV along with high school credit for three courses (Trades Sampler 12A, 12B, 12C). The following units will be covered at UFV: “Fasteners and Fittings”, “AST and Heavy Duty Mechanics”, “Welding” and “Piping Trades”. Students will also receive the following certificates at UFV: “WHIMIS” (Workplace Hazardous Materials Information System), “Level 1 First Aid” and “Forklift Operators Certificate”.

Successful students in the Explore Trades program will be encouraged to apply for the Regional Careers Program for their Grade 12 year. This program provides an opportunity for students to start their first year apprenticeship training while still completing high school credit. The Chilliwack School District covers the enrollment fees for students to attend UFV for their first year foundations training.

The following is a recommended plan for students interested in a premium Trades experience while attending GW Graham:

**Courses Completed in Grade 10 – Completing Core High School Requirements at GW Graham**

<table>
<thead>
<tr>
<th>English 10</th>
<th>English 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socials 10</td>
<td>A Socials Studies 11 or 12</td>
</tr>
<tr>
<td>PE 10</td>
<td>Science 10</td>
</tr>
<tr>
<td>Elective (Recommended: Skills Exploration 10)</td>
<td>Elective (Recommended: Metalwork 10 or Woodwork 10)</td>
</tr>
</tbody>
</table>

- Career Life Education 10 will be completed in Advisory

**Courses Completed in Grade 11 – Explore Trades Focus at GW Graham and UFV**

<table>
<thead>
<tr>
<th>Workplace Mathematics 11</th>
<th>Skills Exploration 11/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workplace Training Certificate 12</td>
<td>Trades Sampler 12A/12B/12C (completed at UFV)</td>
</tr>
</tbody>
</table>

**Work Experience 12A**

- Career Life Connections and Capstone will be completed in Advisory

**Courses Completed in Grade 12 – Regional Careers Program Focus at UFV**

- Students attend UFV to complete their first year apprenticeship in one of the following Trades:

<table>
<thead>
<tr>
<th>Aircraft Structure Technician</th>
<th>Carpentry/Joinery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive Service Technician</td>
<td>Electrical Work</td>
</tr>
<tr>
<td>Automotive Collision Repair &amp; Refinishing</td>
<td>Plumbing and Piping</td>
</tr>
<tr>
<td>Architectural Design</td>
<td>Welding</td>
</tr>
</tbody>
</table>
Youth Train in Trades - Carpentry

The Youth Train in Trades (formerly known as ACE-IT) Carpentry program provides training for Grade 11 and 12 students interested in a career in carpentry and related trades. Students receive training in the first semester at G.W. Graham Secondary School and the second semester at the University of the Fraser Valley.

Students accepted into the program will be immersed in an intensive technical training experience equal to trades programs at post-secondary institutions. This is a dual credit program, meaning students gain high school and post-secondary credits. Each student accepted into the program is registered as a trainee with the Industry Training Authority (ITA). Upon successful completion they will receive credit for Level 1 Carpentry.

Work experience and field experiences are an important part of the Carpentry program at G.W. Graham. The program has a unique design that enables a cohort of students to work collaboratively in a full-day carpentry experience. Therefore, our Youth Train in Trades Carpentry teacher is able to offer learning opportunities throughout our community. This flexibility enables the class to have field trips for connecting and learning from carpentry businesses and post-secondary institutes.

The following is a recommended path for students interested in a premium Trades experience with a carpentry focus while attending G.W. Graham:

Courses Completed in Grade 10 – Completing Core High School Requirements at G.W. Graham

<table>
<thead>
<tr>
<th>English 10</th>
<th>Mathematics 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socials 10</td>
<td>PE 10</td>
</tr>
<tr>
<td>Science 10</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective (Recommended Skills Exploration 10)</td>
</tr>
</tbody>
</table>

- Career Life Connections will be completed in Advisory

Recommended Courses Completed in Grade 11 – Explore Trades Focus at G.W. Graham and UFV

<table>
<thead>
<tr>
<th>English 11</th>
<th>Trades Sampler 12A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science 11</td>
<td>Trades Sampler 12B</td>
</tr>
<tr>
<td>Socials 11 or 12</td>
<td>Trades Sampler 12C</td>
</tr>
<tr>
<td>Elective (Recommended Skills Exploration 11)</td>
<td>Workplace Mathematics 11</td>
</tr>
<tr>
<td></td>
<td>Work Experience 12A</td>
</tr>
</tbody>
</table>

Courses Completed in Grade 12 – Youth Train in Trades Carpentry at G.W. Graham and UFV

<table>
<thead>
<tr>
<th>English Studies 12</th>
<th>Carpentry Level 1 – 12D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Experience 12B</td>
<td>Carpentry Level 1 – 12E</td>
</tr>
<tr>
<td>Carpentry Level 1 – 12A</td>
<td>Carpentry Level 1 – 12F</td>
</tr>
<tr>
<td>Carpentry Level 1 – 12B</td>
<td>Carpentry Level 1 – 12G</td>
</tr>
<tr>
<td>Carpentry Level 1 – 12C</td>
<td>Carpentry Level 1 – 12H</td>
</tr>
</tbody>
</table>

Note: More information about the Youth Train in Trades Programs can be found on the next page.
YOUTH TRAIN IN TRADES

The Youth Train In Trades (YTIT) program allows high school students to take technical training that gives them dual credit (up to 32 credits) for high school courses and apprenticeship or industry training programs. This is an innovative partnership between UFV and School District No. 33. Grade 11 students can apply to pursue an apprenticeship career path to obtain the first level of technical training in a particular trade in their grade 12 year. Each YTIT program is tuition free, but there will be some equipment/supply costs to the student depending on the program selected (Note: See fees). Application process is competitive and space is limited.

Who attends: Students in their grade 12 year.

Facilitator: Your school counsellor or the Train in Trades Coordinator, Colin Mitchell, colin_mitchell@sd33.bc.ca, 604-798-0797.

Dates: September or February depending on the program

Location: University of the Fraser Valley, Chilliwack Secondary, Sardis Secondary or GW Graham, depending on the program.

Fees: Ancillary fees, books, clothes and tools range from $1,800 - $2,400 (depending on the length of the program and tools required)

Application due date: March 1, 2019 in your grade 11 year. For an application, see your school counsellor or Train in Trades Coordinator, Colin Mitchell, colin_mitchell@sd33.bc.ca, 604-798-0797.

PROGRAMS OFFERED IN SD33:

Carpentry @ G.W. Graham & UFV, September
Carpentry @ Sardis Secondary & UFV, September
Auto Service Technician @ Chilliwack Secondary School & UFV, September
Auto Service Technician @ Sardis Secondary School & UFV, September
Hairdressing @ Chilliwack Secondary School, February
Welding @ Sardis Secondary & UFV, September

*Please note: Opportunities for out-of-catchment students into these 4 programs will be limited to spaces available.

Other Partnership Programs Available @ UFV – consult with your counselor for more information

- Aircraft Structures Technician
- Automotive Service Technician
- Auto Collision Repair & Refinish
- Carpentry/Joinery
- Construction Electrician
- Heavy Mechanical Foundation
- Professional Cook
- Plumbing & Piping
- Welding
- Architectural Drafting
- Electronics Technician-Common Core
- Hospitality Event Planning
YOUTH WORK IN TRADES PROGRAM

GET ON-THE-JOB TRAINING AS A YOUTH APPRENTICE

IS THIS THE PROGRAM FOR YOU?

Youth Work in Trades - Have a job?

Any student currently employed with a qualified tradesperson is eligible for the Youth Work In Trades Program. Students earn up to 16 credits towards graduation if they are enrolled in the YWIT Program. The criteria includes:

- Working in a paid position
- Working with a qualified trades person
- Enrolled in a school

With 900 hours and a C+ average in grade 12 courses students also qualify for a $1,000 award from the government.

Eligibility: This is an opportunity for students 14 years and older who are working with a qualified trade’s person.

Date: Begins when the student turns 14 years

Application due date: Ongoing

Contact: Youth Work in Trades Coordinator Colin Mitchell @ colin_mitchell@sd33.bc.ca, 604-798-0797 or your school counsellor.

Check out eligible trades at itabc.ca
Outdoor Education

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’s backcountry. They will learn about and practice a variety of outdoor skills including trip planning, principles of “no trace”, food preparation, wilderness safety, hiking, wilderness camping, snowshoeing, skiing/snowboarding, kayaking/canoeing, wilderness navigation, paddle boarding and much more.

It is intended that students will make connections between concepts in Environmental Science and their own wilderness experiences. We 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.

In Outdoor Education students will gain credits for Physical Education (Outdoor Education 11- 4 credits) as well as Photography (4 credits). Participation in the course is mandatory and all excursions are outside of the timetable. All activities will take place evenings and weekends. Students will also have an opportunity to gain valuable Work Experience (4 credits) through this course. Work Experience placements can include working in the forest industry, fishing industry, conservation, local retail businesses, school events and various organizations determined to preserve the natural environment. Students participating in Outdoor Education can potentially earn 12 credits toward graduation.

The course fee is dependent upon activities each year. Fees are adjusted at the start of each year.

“Connect to Nature, Transform your Life”

“LOOK DEEP INTO NATURE, AND THEN YOU WILL UNDERSTAND EVERYTHING BETTER.”

-ALBERT EINSTEIN
GW Graham is extremely proud of our very strong athletics program. We are very pleased that over 50% of our students are involved in the athletics program. Our gyms are one of the busiest in the Lower Mainland with students actively involved from early morning until the evening. There is a culture of students making a strong commitment to athletics as they strive to grow in sports. Our Sport Specific PHE classes are designed to support the students who have a passion and want to grow in certain sports. The Sport Specific PHE classes use specific sports as the fabric for learning the curricular competencies for Physical and Health Education at the grade 9 – 12 level.

GW Graham’s sport specific classes will combine excellent instruction with a unique partnership with university/college coaches and other elite athletics agencies throughout the local and provincial sport community in an attempt to motivate each individual beyond their personal boundaries, to foster individual skill development, and maximize players’ potential.

GW Graham sport specific classes will offer student athletes a high performance program focused on developing their total game including: individual fundamental skills, offensive and defensive team strategies, cross training, competitive preparation, and mental toughness. In addition to growing as athletes, students will also have the opportunity to work towards coaching and officiating certifications.

Student athletes will also have the opportunity to grow into leaders and role models within the community working with our middle school and elementary feeder schools.

Senior Athletics - Sport specific students will also be provided with strategies, tools, important information and assistance with post-secondary athletic and educational opportunities.

The ultimate goal for all sport specific student athletes is to strive to become 1% better every day in their chosen sport, in the classroom and throughout their community.
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 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.

Art Studio 10 (MVAST10)

Prerequisite: Previous Art Courses Preferred

Art 10 builds on concepts and skills introduced in Art 9. Students will 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. Art 10 can serve as an introductory prerequisite for students who may not have had the opportunity to complete Art 9, and plan to take further Visual Arts courses at the grade 11 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.

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.

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 will be a prerequisite for Photography 12 which will be offered the following year.

Studio Arts 3D – Ceramics and Sculpture 10 (MVAC-10)

Prerequisite: Art 9 preferred

This course allows students to work in 3D art media, with a focus on clay. Hand building, glazing, firing, and wheel work will be introduced. Papier-Mâché, textiles, wire, paper sculpture, casting, mold making or other media may be explored. Safe use of equipment and materials will be addressed. 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.

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. A variety of 3D media will be explored. Basic materials and tools will be provided. Students who plan to attend post-secondary art programs are encouraged to work on projects to be included in portfolios.

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, and 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 portfolios.
**Computer Studies 10 (MCSTU-10)**

**Prerequisite:** C+ in Math 9 recommended.

This course will introduce you to a wide variety of computer-based topics. You will learn how to code, develop games, design digital graphics, study basic robotics concepts, and create objects for 3D printing. Other topics may be added as we acquire new technology and software throughout the year.

**Computer Programing 11 (MCMPR-11)**

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

What you study will depend on your starting point for the course. You will begin or continue with various programming languages of your choice. If you wish to eventually build your own Android apps, mastery of Java and PHP is recommended. If you’d like to add to the artificial intelligence of our little Cozmo robots, you’ll need to focus on Python. Game development in Unity requires learning C#, and to create virtual reality environments, you’ll work with JavaScript. You may also choose 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. You must be prepared to work in an effective, self-directed manner. The certification exam will be available at a 50% discount. This option will be available pending renegotiation between the BC Ministry of Education and Palo Alto Networks.

**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.

Marketing & Promotion / Entrepreneurship
Gr. 11 (MMAP-11) - Gr. 12 (MENT-12)

Prerequisite: None

Learn how to research, plan, market & finance a business. Find out what it takes to manage and operate a retail business by running the school’s coffee shop (must pass tests in Food Safety & Operations). Develop your entrepreneurial skills and come up with your own product or service. Learn how to make a business pitch. This course is both theoretical and hands-on with many class-based activities & discussions. Students enrolled in Entrepreneurship 12 will work as managers in the program.

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 (MVAMT)

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.

Electronics & Robotics 10 (MTEAR10)

Prerequisite: C+ in Math 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!
**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: Acting 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: Acting 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.

**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 Production 11 – 12 (MDRTP)**

**Prerequisite:** Acting 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%.
ENGLISH LANGUAGE ARTS

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.

English 9 - Fine Arts Focus (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, Focused Literary Studies 10, and New Media 10. Those students wishing to take English 11 Honours must choose Focused Literary Studies 10 as their second course option.

**COMPOSITION 10 – (MCMPS10)**

Composition 10, the common thread through all English 10 course offerings, is designed to support students in their development of written communication through a critical process of questioning, exploring, and sampling. By studying compositions with various structures, forms, and styles, students will develop and enhance their ability to create clear and coherent written documents. Self- and peer-assessment, occurring prior to teacher-assessment, will develop students’ abilities to draft, reflect, and revise.

**CREATIVE WRITING 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.

**FOCUSED LITERARY STUDIES 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 10 - (MNMD10)**

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.

**English 10 – Fine Arts Focus (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.
English 11 Options

Students must select at least one of the following options:

CREATIVE WRITING 11 – (MCTWR11)

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

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.

FOCUS LITERARY STUDIES 11 – (MLTST11)

Prerequisite: It is strongly recommended that students have taken English 10 Focused Literary Studies.

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.

FOCUS LITERARY STUDIES WITH ELABORATIONS 11 – (MLTST11-E)

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

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)

Prerequisite: It is strongly recommended that students have taken English 10 New Media.

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: It is strongly recommended that students achieve a B or better in their English 11 course, preferably in English 11 Focused 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 – (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 or not 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-AP)**

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

**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 12 (MENST12)

Prerequisite: English 11

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)

Prerequisite: C+ or better in English 11

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

New Media 12 (MNMD-12)

Prerequisite: It is strongly recommended that students have taken New Media 11

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.

English First Peoples 12 (MENFP12)

Prerequisite: English 11

First Peoples is the academic equivalent of English 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.
HOME ECONOMICS

Child Development & Caregiving 12 (MCDAC12)

Prerequisite: None

Explore 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. This course is offered in alternate years with Interpersonal and Family Relationships 11 or Housing and Living Environments 12.

Food Studies 11 (MFOOD11)

Prerequisite: Food Studies 10

This course introduces students to more advanced techniques in food preparation, including salsas, homemade pastas, more advanced yeast bread preparations, and much more! While learning about nutrients and nutritional issues as well as budgeting and planning meals, food preparation will provide opportunities to incorporate these principles during the creation of “mini-meals.” Students will also explore food patterns of a variety of regional areas and cultural groups within Canada. Students may have the opportunity to take the FoodSafe Level 1 course and examination, and receive a FoodSafe Certificate. (The cost for the book and certificate will be approximately $30.00 if students wish to receive FoodSafe certification.) Special events may include holiday cake decorating and a cooking competition.

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? Explore these 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.

Food Studies 10 International (YHEC-0F)

Prerequisite: None *For grade 9 & 10 students

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. Students will research, develop and create a simple lunch from another cultural group while considering nutritional guidelines and budget. Special events may include designing a Food Truck and menu with an ethnic focus and a G.W.G. Kitchen Master competition.
Food Studies 12 (MFOOD12)

Prerequisite: Food Studies 11

Take your food preparation skills to new levels in Food Studies 12. This course emphasizes the ability to use nutritional information and advanced skills in food preparation and menu planning. A world culinary adventure, students will learn about cultural food patterns and use authentic tools and ingredients to make dishes from a variety of cuisines found around the world. Students will learn about current issues in food production (genetic engineering, for example), food service and diet patterns. Modifying and developing recipes to suit various lifestyle and dietary needs and requirements will be introduced. Special events may include a “Black Box” cooking competition.

Specialized Foods 12 - Baking & Pastry (MSPSF12)

Prerequisite: Food Studies 11 or 12

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 10 (MTXT-10)

Prerequisite: None *For grade 9 & 10 students

Do you like sewing or want to learn how? Do you wear clothing? Do you have a personal style? Fashion 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, 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 11 (MTXT-11)

Prerequisite: Fashion 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 fabric 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 12 (MTXT-12)**

**Prerequisite:** Fashion 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 11, Fashion 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 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 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.

Of special 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

Topics covered in Both Courses: Workplace Math 10 AND Foundations of Math & Pre-Calculus 10
- Right Angle Trigonometry
- Income & Deductions
- Experimental Probability

Topics covered ONLY in Workplace Math 10
- Measurement Conversions
- Surface Area & Volume
- Interpreting Graphs
- Angles & Parallel Lines
- Central Tendency

Topics covered ONLY in Foundations of Math & Pre-Calculus 10
- Factors/Multiples
- Roots/Powers
- Multiplying Polynomials **
- Factoring **
- Functions/Relations
- Graphing Linear Functions **
  - Slopes/Intercepts
  - Domain/Range
  - Equations
- Systems of Linear Equations

Grade 9 skills needed to be successful in Workplace Math 10
- Understanding when to use different number calculations
  - Addition/Subtraction
  - Division/Multiplication
- General Number work (Could be with the help of a calculator)
- Solving Proportions:
  example: find the missing number \( \frac{3}{4} = \frac{24}{x} \)

Grade 9 skills needed to be successful in Foundations of Math & Pre-Calculus 10
- Number Skills
  - Positive/Negative Numbers
  - Doing simple calculations without a calculator
    \( \sqrt{16} - 2 = \)
- Algebra Skills **
  - Ability to work with variables
    Isolate \( y \): \( 5x + y = 75 = 0 \)
  - Solving equations with more than 2 steps
    Find the value of \( x \): \( 2x + 3 = -1 - 4x \)
  - Multiplying Monomials/Polynomials
    Expand & Simplify: \( 2x(5 - x) + 7x \)

** means it is 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

- 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

Skills you should be comfortable with before taking FOM 11

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

Topics covered in Both Courses:
- Trigonometry (Sine/Cosine Laws)
- Characteristics of Quadratic Functions (With or without technology)
- Finance (Investments & Loans)

- 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
- Linear and Quadratic Inequalities

** means it is a large portion of the course material

Topics covered ONLY in Foundations of Math 11

Topics covered ONLY in Pre-Calculus Math 11

Skills you should be comfortable with before taking PREC 11

- Solving Trigonometry problems using Sin, Cos, Tan and Pythagoras
- Factoring Trinomials of the form \( ax^2 + bx + c \)
  Factor \( 4x^2 + 2x - 30 \) to get \( 2(2x - 5)(x + 3) \)
- Simplifying Radicals: \( \sqrt{60} = 2\sqrt{15} \)
- Converting between General Form, Slope-Point Form, and Slope-Intercept form for Linear Functions
- Graphing Linear Functions
  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. This course has a final exam worth 20% of the student’s overall mark.

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. This course has a final exam worth 20% of the student’s overall mark.

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. 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. 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.

Geometry 12 (MGMT-12)

Prerequisite: Pre-Calculus 11 or Foundations of Math 11

Geometry 12 is an exploratory Math Course concerning shape and space. Students will be working with Geometer’s Sketchpad and Desmos to model mathematical and non-mathematical phenomena in Geometry. Today geometry is used in a multitude of disciplines, including animation, architecture, biology, carpentry, chemistry, medical imaging, and art.

Geometry 12 will be taught with a Constructivist Mathematics Method, and will cover 5 general topics:

- geometric constructions;
- circle geometry;
- constructing tangents;
- transformations of 2D shapes, including the isometries and affine transformations;
- perspective and non-Euclidean geometries.

The curricular competencies (reasoning & analyzing, understanding & solving, communicating & representing, and connecting & reflecting) are interwoven throughout the mathematical topics.
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 and UNBC. As of June 2019, the cost of this exam was $100. Please go to the following website for more information. http://outreach.math.ubc.ca/calc_challenge.html/

AP Calculus AB (coming September, 2021)

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 linear, starting in September, 2021. Therefore, **students must complete Pre-Calculus 12 by the end of June, 2021 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 November 2019, the cost of this exam was approximately $125 CAD.

FREQUENTLY ASKED QUESTIONS:

1. **How are the two calculus courses similar?**

   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.

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

   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 (at a current cost of $100) 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. 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.

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

   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 AB. Regardless of which course you choose, you will cover the material from first semester calculus at university.
# MODERN LANGUAGES

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

## French 9 (MFR–09)

**Prerequisite:** French 8

The focus of French 9 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. The use of the target language is stressed at all times and students are empowered with the knowledge and skills to succeed. We strive to introduce French culture within the context of language learning. Students often work in groups and partners to complete interactive and experiential final tasks. In addition, students complete individual exercises, quizzes and tests the course progresses.

## French 11 (MFR–11)

**Prerequisite:** French 10

In Grade 11, students have the opportunity to progress and solidify their knowledge, comprehension and speaking skills developed in Grade 10. The use of the target language is stressed at all times and students are empowered with the knowledge and skills to succeed. 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 worth 20% of the grade.

## French 12 (MFR–12)

**Prerequisite:** Recommend B or better in French 11

The rewards of continual study of Canada’s other official language are experienced in Grade 12. 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. The semester’s work is divided into units: students often work in groups and partners to complete interactive and experiential final tasks. In addition, students complete individual exercises, quizzes and tests as each unit progresses. There is a final speaking and written assessment worth 30% of the grade.

## Halq’eméylem 10-12 (MHALQ)

**Prerequisite:** None

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 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.

## Spanish 9 (MSP–09)

**Prerequisite:** None

This is an introductory Spanish course. Students will focus on the basics of reading, writing, and speaking in Spanish. Topics for vocabulary development revolve around everyday life. Development of conversational and communicative skills will be emphasized. Students will be evaluated in listening, speaking, and written assignments, projects, tests, and a final exam. Class participation will be emphasized.
**Spanish 10 (MSP–10)**

Prerequisite: Spanish 9 or Recommendation of Teacher

This course provides a more in-depth look into one of the world’s most widely used languages. Enhance job opportunities – the ability to speak a second language is an advantage when working for international companies. Spanish is an alternate language choice. This course will enhance your enjoyment when traveling. Taking this course will prepare students to continue to Spanish 11. Oral, written and reading are included; development of conversational and communicative skills will be emphasized. Students will be evaluated in listening, speaking, and written assignments, projects, tests, and a final exam. Class participation will be emphasized.

**Spanish 11 (MSP–11)**

Prerequisite: Spanish 10 or Intro Spanish 11

Students will learn to interact with greater confidence in familiar situations and will be able to apply their growing range of strategies more consistently. Oral and written skills will be emphasized to enable students to respond to creative works in increasingly sophisticated ways, through oral interactions, journal entries, resumes, and short written texts. Students will demonstrate an understanding of similarities and differences among Hispanic cultures.

**Spanish 12 (MSP–12)**

Prerequisite: Spanish 11

Successful completion of Spanish 11 is required to succeed in this course. In Spanish 12 students will be utilizing the language skills that have been learned in the previous two or three courses. This is an intensive course that includes more oral, writing, and reading comprehension than in all the other courses combined. Students will be working with the language in a conversational forum and must be confident enough to use the language orally. By the end of the course students will be able to speak with greater fluency, confidence, and be able to understand the cultural perspectives from the Spanish point of view.

**MUSIC**

**Choir 9 – 12**

Gr 9 (MMU-09CH) - Gr 10-12 (MCMCC)

Prerequisite: Vocal experience is an asset

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 / MMUCB)**

Prerequisite: Band 8 or permission of instructor

Band 9 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 (MIMCB11/12)**

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

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

**Introductory Guitar 10 – 12**

**Gr 10 (MMUGT10-I) - Gr 11-12 (MIMG-I)**

Prerequisite: None

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

**Guitar 10 – 12**

**Gr 10 (MMUGT10) - Gr 11-12 (MIMG)**

Prerequisite: None

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**

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 (MUJB-10)**

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 (MIMJB 11/12)**

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 effort. Some co-curricular rehearsals may be required. All performances are mandatory.

**Music Composition 11 – 12**

**Gr 11 – 12 (MMUCP)**

Prerequisite: None. Knowledge of musical notation is an asset.

Students will learn music notation, music history including compositions for the different eras, instrumentation, orchestration and transposition. Students will be assessed through written tests, musical compositions, ear training tests and performance of compositions.
**Orchestra 9 – 12**  
Gr 9 (MMU-09O) - Gr 10-12 (MMUOR)

**Prerequisite:** None

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.

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**Pep Band 10 – 12 (MMUCM)**

**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 have an opportunity to arrange their music for the ensemble. Students will be assessed through in class playing, performances, assignments, musicianship and general effort. This class will meet outside of the time table. (Time TBA).

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**Vocal Jazz 9 – 12**  
Gr 9 (MMU-09VJ)  
Gr 10 (MMUVJ)  
Gr 11-12 (MCMJV)

**Prerequisite:** Application and audition

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 pm. and during Tutorial. Evaluation will be assessed through class participation, attendance, concerts, assignments, performance testing and general effort. All performances are mandatory.

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**WHERE WORDS FAIL, MUSIC SPEAKS.**  
- HANS CHRISTIAN ANDERSEN
PHYSICAL AND HEALTH EDUCATION

The GW Graham Physical and Health Education Department believes PHE courses should provide worthwhile experiences which will influence all students to live a purposeful 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 Grade 11 and 12 may take more than one PE course.

Note: P.E. strip is a requirement and percentages are taken off as a result of missed classes due to the lack of proper strip

Physical and Health Education 9
(MPHE-09)

Prerequisite: PE 8

PE 9 is an extension of PE 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. Cardiovascular activities will form an integral part in most class periods. Evaluation will focus on fitness, skills, effort, participation and sportsmanship. Active participation will be required of all students.

Physical and Health Education 10
(MPHED10)

Prerequisite: Any PE 9 Course

PE 10 continues to develop basic skills and focuses on activities that students will enjoy and continue to participate in during future years. PE 10 will emphasis healthy living concepts and a variety of recreational activities. Areas stressed are fitness, strength and conditioning, badminton, tennis, volleyball, basketball, dance, soccer, softball, aerobics, and cross country running. Evaluation is based upon fitness assessment, skills, knowledge (written exams), effort, sportsmanship and class participation.

Active Living 11 (MACLV11)

PE 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 include tennis, broomball, skating, racquet sports, all of which may result in field trips to various facilities. The course introduces students to recreational activities not covered in PE 9 & 10. Evaluation is based upon fitness assessment, skills, knowledge (written exams), effort, sportsmanship and class participation.

Fitness & Conditioning 11 – 12
(MFTCD)

Prerequisite: Successful completion of PE 10

PE 11/12 Health and Fitness is a senior course for students interested in learning about and participating in a variety of on and off campus recreational fitness activities such as aerobics, step-classes, yoga, cardio kickboxing, and weight training. The course will also address health-related topics through various theory and knowledge-based activities. Outside guests will 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, encouraging classroom environment.
Outdoor Education (MODED11)

Prerequisite: PE 8 and instructor's approval

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, food preparation, wilderness safety, hiking, camping, snowshoeing, cross-country skiing, standup paddle boarding or kayaking, and indoor rock wall climbing. Objectives of this course include developing a strong appreciation of nature and making safe decisions in the outdoors. 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 will be taught outside of the regular timetable and the majority of the class time will be after school and on weekends. Open to students from Grades 9-12. Please see the Specialty Programs section for more information.

Physical Health and Education Leadership 9 – 12 Gr 9 (MPHE-09LD)
Gr 10 (MPHED10 LD) - Gr 11-12 (MACLV LD)

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

This course is directed at students who enjoy PE, 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. PE Leadership students help to foster a sense of community, pride, passion and spirit amongst the school population and community. Students will receive credit for PE 9, 10 or a senior Elective credit.

Sports Specific Athletics Baseball
Gr 9 (MPHE-09BSE) Gr 10(MPHED-10BSE)
Gr 11-12 (MACLV BSE)

This program will provide high level, baseball specific training, to suit the needs of aspiring baseball players who want to improve upon and elevate their overall skills of the game. Sport specific baseball will run during two combined periods in first semester. Students will receive credit for 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 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, student athletes will take part in an elite athletics seminar series that includes the following topics: hydration, sleep hygiene, time management, concussion management, performance enhancing drugs and 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, as well as have some experience competing at the elite baseball level. Students also need to be prepared to train outside most days of the week between the months of September to January.

Please note: there will be a $900 fee attached to this course.

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.
**Sport Specific Athletics**  
**Basketball 9 – 10**  
**GR 9 (MPHE-09BB) Gr 10 (MPHED-10BB)**

Prerequisite: Minimum B grade in previous PE class, 
Recommendation from previous PE Teacher.

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 receive PE 9 or 10 credit for this course.

**Sport Specific Athletics**  
**Basketball 11 – 12 (MACLV BB)**

Prerequisite: Minimum B grade in previous PE class, 
Recommendation from previous PE Teacher.

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 receive senior elective credits for this course.

**Sport Specific Athletics**  
**Football 9 – 12**  
**Gr 9 (MPHE-09FB) Gr 10-12 (MACLV FB)**

Prerequisite: Minimum B grade in previous PE class, 
Recommendation from previous PE Teacher.

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 in grades 9 and 10 will receive PE 9 or 10 credit. 
Students in grade 11 and 12 will receive senior elective credits.

**Sport Specific Athletics**  
**Volleyball 9 – 12**  
**Gr 9 (MPHE-09VB) Gr 10 (MPHED-10VB) GR 11-12 (MACLV VB)**

Prerequisite: Minimum B grade in previous PE class, 
Recommendation from previous PE Teacher.

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 in grades 9 and 10 will receive PE 9 or 10 credit. 
Students in grade 11 and 12 will receive senior elective credits.
**Sport Specific Athletics**

**Soccer 9 – 12 Gr 9 (MPHE-09SO)**  
Gr 10 (MPHED-10SO) Gr 11-12 (MACLV SO)

Prerequisite: Minimum B grade in previous PE class, Recommendation from previous PE Teacher.

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 in grades 9 and 10 will receive PE 9 or 10 credit. Students in grades 11 and 12 will receive senior elective credits.

**Rugby 9 – 12 Gr 9 (MPHE-09RU)**  
Gr 10 (MPHED-10RU) Gr 11-12 (MACLV RU)

Prerequisite: Minimum B grade in previous PE class, Recommendation from previous PE Teacher.

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 in grades 9 and 10 will receive PE 9 or 10 credit. Respectively students in grades 11 and 12 will receive senior elective credits.

**Field Hockey 9-12 Gr 9 (MPHE-09FH)**  
Gr 10 (MPHED-10FH) Gr 11-12 (MACLV FH)

Prerequisite: Minimum B grade in previous PE class, Recommendation from previous PE Teacher.

This course will provide high level, field hockey specific training, to suit the needs of aspiring field hockey 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 in grades 9 and 10 will receive PE 9 or 10 credit. Students in grades 11 and 12 will receive senior elective credits.

**Strength & Conditioning 11**  
(YHRA-1C)

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

Evaluation is based upon fitness assessment, knowledge (written exams), daily journals, effort, peer cooperation and class participation.
Strength & Conditioning 12 (YHRA-2C)

Prerequisite: C+ standing in previous PE course

This course is a continuation of Strength and Conditioning 11. Learning outcomes 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. Evaluation is based upon fitness assessment, knowledge (written exams), daily journals, effort, peer cooperation and class participation. 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. Evaluation is based upon fitness assessment, knowledge (written exams), daily journals, effort, peer cooperation and class participation.

Strength & Conditioning 11 or 12 – (Out of Timetable) (YHRA-1C/2C OT)

Prerequisite: None

This course runs linear throughout the school year. 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 that register for this course must be committed to their personal training. The course content of this course can be adjusted to meet the individual student’s needs focusing on either sport specific and or recreational training concepts.

Sports Medicine 12 (YHRA-2D)

Prerequisite: Successful completion of Science 10 and PE 10 and permission from instructor.

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, including athletic taping. 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.
**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 principle 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.

**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: A 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. It is recommended that students have a strong background in mathematics, and are 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 11 provides an introduction to basic Physics concepts: wave motion, optics, kinematics, momentum, force and energy, Newton’s Laws, Einstein’s special relativity, electric circuits, nuclear fission, and fusion.

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**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.

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**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

All courses offered in the GW Graham Social Studies department are anchored in the creative and critical thinking skills of historical thinking. 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.

<table>
<thead>
<tr>
<th>Grade 9 choice of:</th>
<th>Humanities 9</th>
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<th>Humanities 9 (Fine Arts Focus)</th>
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<tbody>
<tr>
<td>Grade 10 choice of:</td>
<td>Social Studies 10</td>
<td>or</td>
<td>Humanities 10 (Fine Arts Focus)</td>
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| Grades 11 and 12: one course required for graduation; may choose additional courses as electives | • Explorations in Social Studies 11 (honours) | • Comparative Cultures 12 | • Contemporary Indigenous Cultures 12 |
| | | • Genocide Studies 12 | • Law Studies 12 |
| | | • Physical Geography 12 | • Twentieth Century World History 12 |

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.

Social Studies 9 - Fine Arts Focus (MSS—09FA)

Prerequisite: Social Studies 8

This program combines all the learning outcomes of English 9 and Social Studies 9 in a blended, cross-curricular format. Students will comprehend and make connections to a variety of texts, as well as create their own texts and learn to communicate effectively in a wide range of formats and styles. Students will also learn about political and technological revolutions, the impacts of imperialism and colonialism, and the rise of national identities and nation states, with a focus on these changes on Canada. Students will have opportunities to explore these outcomes through an artistic and cross-curricular lens. This program focuses on creative expression, project based learning, and artistic collaboration. It is a great fit for "outside of the box" thinkers, and those looking for opportunities to challenge themselves by demonstrating their learning in different ways. It is strongly encouraged that students interested in Humanities Fine Arts also be enrolled in a visual performing arts course, or be involved in extra-curricular visual or performing arts activities.
Social Studies 10 (MSS–10)

Prerequisite: Social Studies 9 or Social Studies 9 FA

This course examines 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.

Social Studies 10 – Fine Arts Focus (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-H)

Prerequisite: Social Studies 10 with a B or higher

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

20th Century World History 12 (MWH–12)

Prerequisite: Social Studies 10

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

Comparative Cultures 12 (MCML12)

Prerequisite: Social Studies 10

This course addresses the various definitions of culture, and how these have changed over time. Issues of power, authority and conflict within and between different cultures will be addressed, as well as the various value systems that underpin the wide range of cultural expressions in art, music, architecture, literature and religion.
Comparative World Religions 12 (MWRL-12)

Prerequisite: Social Studies 10

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

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

### Drafting 10 (MTDRF10)

**Prerequisite:** None

Students will be introduced to techniques used in both board (mechanical) drafting as well as computer aided drafting. The students will have the opportunity to use state of the art technology, giving them the leading edge in related careers. Students will also have the opportunity to construct some of the projects they design as 3D models. Evaluation of this course is based on quality of drawing and the incorporation of drafting skills.

### Drafting 11 (MTDRF11)

**Prerequisite:** None

This drafting course can be used as the pre-requisite into Drafting 12. Students will be introduced to techniques used in computer aided drafting as well as Board Drafting (hand drawing). The students will have the opportunity to use state of the art technology, giving them the leading edge in related careers. Students will also have the opportunity to construct some of the projects they design as 3D models. This course will be divided into sections; Board Drawing, Architectural CADD drafting and project modeling.

### Drafting 12 (MTDRF12)

**Prerequisite:** Drafting 10/11 or instructor's permission

This course will focus on design and product manufacturing. Students will use state of the art computer technology to design, draw and model projects of their choosing after working through a series of mandatory skill building exercises. We will also spend time refining student’s skills with Board drawing techniques. Each student will be given the opportunity to develop their skills in drafting with a main focus on housing and habitat design.

### Metalwork 10 (MTMET-10)

**Prerequisite:** None

Metalwork 10 is a beginner level metalworking course. This course will introduce students to the basics in metalworking through using hand tools, the design process, cutting, forming, machining and joining metal. Students will build a strong foundation of safe work practices, measurement, layout and problem solving skills.

### Metalwork 11 (MTMET11)

**Prerequisite:** Metalwork 9/10

Metalwork 11 is an intermediate level metalworking course. Students will advance in their skills and knowledge learned in Metalwork 10 through more advanced projects involving cutting, forming, machining, and joining metal. Students will gain experience in using sheet metal tools, welding equipment, metal lathe and milling machine.

### Metalwork 12 (MTMET12)

**Prerequisite:** Metalwork 11

Metalwork 12 builds upon skills learned in Metalwork 11. Students will advance their skill and knowledge through more complex projects that involve welding, machining, cutting, forming, and shaping metal. Students have the opportunity to design and build their own major project, seeing it through from idea to sketch, to fabrication.

### Metalwork 9 (MADM-09)

**Prerequisite:** None

Metalwork 9 is an entry level metalworking course. This course will introduce students to the basics in metal art, using hand tools, the design process, cutting, forming, machining and joining metal. Students will build a strong foundation of safe work practices, measurement and layout, and problem solving skills.
**Machining and Welding 12 (MTMAW12)**

| Prerequisite: | Metalwork 12 |

Machining and Welding 12 is an advanced metalworking course where students will advance their skills and knowledge in welding techniques as well as in using metal machine tools. Students will practice welding using a variety of welding equipment in all joint types and positions. Some projects will be based around the milling machine and metal lathe, where accuracy and quality are the focus.

**Robotics 10 (MTEAR10)**

See Business and Computers Section

**Skills Exploration 10/11 (MSTX)**

| Prerequisite: | None |

Skills Exploration 10/11 is an engaging program in which students use hands-on learning to acquire skills and knowledge related to the construction trades, and the manufacturing sector. This course is delivered in module format and we will cover introductory lessons & activities in carpentry, electrical wiring, basic plumbing, welding & fabrication as well as safety. It is a unique opportunity to explore a variety of skilled trades before graduation. There are no pre-requisites for this course however prior learning will be an asset.

**Woodwork 9/10**

Gr 9 (MADW-09) Gr 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 9/10 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.
# 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.

# Leadership 9 – OT (XLEAD09)

**Prerequisite:** Application required and consistently good or satisfactory work habits.

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 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. Students interested in enrolling in Leadership apply in writing by submitting an application and taking part in an interview.

# Dance Foundations 11 – 12 (MDCF)

**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 10 – 12 – OT (YIPS0A – YIPS2A)

**Prerequisite:** Application required and consistently good or satisfactory work habits.

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. Students interested in enrolling in Leadership apply in writing by submitting an application and taking part in an interview.
Peer Tutoring 11 (YIPS-1C)

Prerequisite: Permission of instructor

The Peer Tutoring 11 course is a challenging combination of teaching/learning theory and application with an emphasis on peer tutoring in a specific subject/grade level. Allows for students to connect with the instructor one-on-one or in a small group in the student's designated block. Current research literature related to the teaching/learning process is examined, discussed, and applied in practicum situations. Assessment focuses on the students' use of knowledge and complex reasoning processes rather than on their recall of information. Finally, this course provides students interested in the Human Services and the teaching profession an opportunity to experience teaching in a real classroom setting.

Peer Tutoring 12 (YIPS-2C)

Prerequisite: Successful completion of Peer Tutoring 11 and permission of the instructor.

The Peer Tutoring 12 course continues to focus on a combination of teaching/learning theory and application with an emphasis on peer tutoring in a specific area of subject/grade level. In addition to maintaining weekly logs of their tutoring experiences, students are required to complete assignments and attend seminars while continuing to complete their scheduled duties with their sponsor teacher. Students in LC12 will focus on gaining a deeper understanding of the dynamic nature of the teaching process. There is a more practical component to the course where students will not only tutor younger students, but will also be required to teach a class in the second term.

Psychology 11 (YPYC1A)

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, perception, and more. Applying the experimental method as it relates to psychology, evaluating personality theories (including Freud's, among others), and exploring applications of psychology to your personal development will be a part of this course.

Psychology 12 – (YPYC2A)

Prerequisite: None

Can you “condition” someone to do your bidding? Would you rob a bank if you were hypnotized? Does use of 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 of your choice will all be part of this exploration into the field of psychology.

YEARBOOK 9-12
GR 9 (XYP—09) GR 10 (YCCT-0F)
GR 11-12 (MGRPR)

Prerequisite: Permission of instructor

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.