

# COURSE PLANNING GUIDE

2017-2018 Grade 9-12

Walnut Grove Secondary School



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## PRINCIPAL'S MESSAGE

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Walnut Grove Secondary School has a tradition of high student achievement and we are proud to make available to our students a comprehensive and diverse range of educational program opportunities. In addition to providing meaningful learning experiences, we hope to inspire personal growth, critical thinking, lifelong learning, creativity and excellence.

This guide is intended for students and parents to collaboratively make decisions about program requirements for successive years through graduation. Examine the guide closely, explore your options and engage in your chosen area of study. But, also remember, as you make decisions, please take the process seriously, for your choices have a direct impact on your future, program sustainability and staffing.

Take time to seek advice from teachers, counsellors, and your parents as you make decisions for next year. Build a program for yourself that is challenging and will expose you to the knowledge, skills and attitudes that will give you momentum as you move beyond high school.



Sincerely,  
George Kozlovic  
Principal

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## HOW TO USE THIS GUIDE

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1. Read descriptions of courses that interest you. Check if there are any prerequisites.
2. Read carefully the graduation requirements and required courses.
3. Discuss the options you are considering with your parents, counsellor, and teachers.

### **FACTORS TO CONSIDER IN MAKING YOUR DECISIONS**

1. What courses **MUST** I take (required courses for graduation)?
2. What courses must I take to enter colleges, technical schools or universities? (Keep as many doors open as you can!)
3. Am I developing my full potential?
4. What will be the total time demand of my learning program?

A secondary school such as ours provides you with an excellent opportunity to grow in terms of knowledge, skills, abilities and self-confidence.

### **IF YOU HAVE A PHONE OR TABLET, USE GATOR BLOCKS!**

- Gator Blocks is a free app for iOS and Android devices
- Gator Blocks helps you keep track of the block order and your class schedule
- You are able to type homework or important notes into the app
- Links to Gator Blocks on the App Store and Play Store are on the school website (<http://www.wgss.ca>)

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# STUDY BLOCKS

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*Walnut Grove Secondary offers a rich variety of courses and believes that students should take advantage of the opportunity for a full education. In-school Study Blocks are a privilege reserved for senior students who have ample credits and challenging course loads.*

## **Grade 12 Students**

Grade 12 students have a study block one or two times per week as they are only required to attend Grad Transitions 12 one specific day per week for one semester. Students who have successfully completed 68 credits by the end of their Grade 11 year are entitled to apply for one additional Study Block.

## **Grade 11 Students**

Grade 11 students are required to sign up for eight courses. Students who have successfully completed 40 credits by the end of their grade 10 year AND have no grade 10 courses on their grade 11 schedule may apply for a study block if one of the following criteria are met:

- The student is enrolled in an extended day course ie. Choir, Band, or Musical Theatre.
- The student is maintaining a **heavy academic load** that would benefit from a study block (permission from parents and administration required).

## **Expectations of Study Blocks**

- Students are expected to report to the **cafeteria** or the **library** for study block. The exception to this is a first or last period Study Block.
- Students are **not** to be in the hallways or outside the building on the property.
- Students are expected to work productively during the study block.
- Students are allowed off of the school property with parents' permission.
- Students must report to the Principal in the evacuation area during an emergency evacuation

## **Students choosing to use the library during their study block are expected to:**

- Use the library for **quiet** study, reading or computer/network access.
- Respect library rules & procedures.

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# FLEX TIME

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Flex time is a period of instructional time built into the WGSS daily schedule that empowers students by giving them some measure of choice and control over their own learning. During flex time, students are expected to be in a class, working on school work, either individually or in groups, meeting with teachers for support on classwork, or working on projects, under teacher supervision, that they are passionate about.

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# COUNSELLING SERVICES AT WALNUT GROVE

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## **GRADE 10-12 COUNSELLORS**

Student last name A – G:	Ms. D. Kifiak	dkifiak@sd35.bc.ca
Student last name H – N for post-secondary info:	Ms. R. Twemlow	rtwemlow@sd35.bc.ca
Student last name H – N for school/personal issues:	Ms. D. Seymour	dseymour@sd35.bc.ca
Student last name O – Z:	Ms. S. Docherty	sdocherty@sd35.bc.ca

## **CAREER ADVISOR**

All students:	Ms. Christy de Bulnes	cdebulnes@sd35.bc.ca
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Ms. Christy de Bulnes, our Career Advisor, assists students and their parents with the investigation of career possibilities. She will meet one-on-one with students to help them with career exploration, job skill development (including reviewing resumes), provide SD35 career program information (such as Youth Trains in Training and Youth Work in Trades), and advertise volunteer opportunities. She works closely with the Counselling Department in that as students identify their post-secondary plans, they may want to make an appointment to see a counsellor to ensure their credits and courses are in line with their path. Christy publishes a Career Newsletter to highlight information and opportunities particularly for Grade 10-12 students. The newsletter is available on the Career Section of the WGSS Counselling & Careers Website: <http://wgsscounselling.weebly.com/careers.html>

Our counsellors are available to assist students and their families in the following ways:

- |  |  |
|--|--|
| <input type="checkbox"/> Help with personal concerns                   | <input type="checkbox"/> Course selection, course planning, course changes |
| <input type="checkbox"/> Community referrals for mental health support | <input type="checkbox"/> Graduation requirements – ‘Grad Check’            |
| <input type="checkbox"/> Academic support, including study skills      | <input type="checkbox"/> Post-secondary information                        |
|  | <input type="checkbox"/> Scholarship information                           |

Students (or parents) may make appointments to see a counsellor at the Counselling Centre or through the main office. Parents are also welcome to phone or email counsellors if they have any questions or concerns. Grade 10-12 students are encouraged to make appointments, as necessary, with one of our counsellors to ensure their program will allow for graduation and pursuit of their passions.

## **British Columbia’s Post Secondary/Career Search**

[www.myblueprint.ca](http://www.myblueprint.ca) (activation key is WALNUTGROVE to set up a user account)

- Comprehensive program for course planning, career exploration and post-secondary planning

[www.educationplanner.ca](http://www.educationplanner.ca)

- Search BC post-secondary options.

[www.schoolfinder.com](http://www.schoolfinder.com)

- Comprehensive program outlining career explorations and post-secondary link.

[www.campusprogram.com](http://www.campusprogram.com)

- Comprehensive program outlining career explorations and post-secondary link.

[www.itabc.ca](http://www.itabc.ca)

- BC apprenticeship/trades information.

[www.workbc.ca](http://www.workbc.ca)

- BC comprehensive career and labour market site.

**Post secondary registration in BC:** [www.applybc.ca](http://www.applybc.ca)

**Post secondary registration in Alberta:** [www.applyalberta.ca](http://www.applyalberta.ca)

**Post secondary registration in Ontario:** [www.ouac.on.ca](http://www.ouac.on.ca)

**USA applications:** [www.commonapp.org](http://www.commonapp.org)

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## COURSE SELECTION – GRADE 9

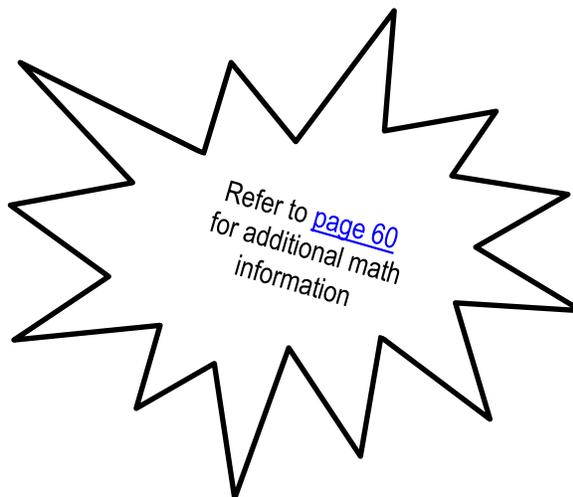
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### ENGLISH PROGRAM

1. English 9/English 9H\*
2. Social Studies 9  
or 1. & 2. Humanities 9
3. Science 9 or Science 9/10\*
4. Math 9 or 10
5. Physical and Health Education 9 or Teamsports 9\*
6. Language or Elective
7. Elective\*\*
8. Elective\*\*

### FRENCH IMMERSION PROGRAM

1. English 9/English 9H\*
2. Français Langue 9
3. Sciences Humaines 9
4. Français Littérature 9
5. Math 9 or 10
6. Physical and Health Education 9 or Teamsports 9\*
7. Science 9 or Science 9/10\*
8. Elective\*\*\*



\*Please note admittance to these courses depends on department approval and availability.

\*\*Students in grade 9 must select one elective that meets the Arts Education credit and one elective that meets the ADST credit. See next page for more information and the Arts Education and ADST options.

\*\*\*Students in grade 9 French Immersion can select an elective from either the Arts Education or ADST choices listed on the next page.

Note: Students in grade 9 **DO NOT** qualify for a Study Block. All students in grade 9 must take a minimum of eight classes.

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# COURSE SELECTION – GRADE 9

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## GRADE 9 ARTS EDUCATION AND ADST ELECTIVES

All students in grade 9, with the exception of French Immersion students, must have the equivalent of one Arts Education credit elective and one ADST (Applied Design, Skills, and Technologies) credit elective. Students should be selecting one course from each column below. Please note that although some courses meet both requirements (ie. Computer Graphics), you are not able to use the same course for both an Arts Education and ADST credit.

### **Arts Education credit:**

Art 10  
Band 9  
Ceramics 10  
Computer Apps  
Computer Graphics  
Drafting & Design Level I  
Drama 9  
Electronics and Robotics 9  
Engineering & Design 10  
Food Studies 9/10  
Metalwork 9  
Musical Theatre 9  
Music Composition & Technology 9  
Power Mechanics 10  
Textiles 9/10  
Woodwork 9  
Choir 9

### **ADST credit:**

Art 10  
Band 9  
Ceramics 10  
Computer Apps  
Computer Graphics  
Drafting & Design Level I  
Engineering & Design 10  
Electronics and Robotics 9  
Food Studies 9/10  
Music Composition & Technology 9  
Metalwork 9  
Power Mechanics 10  
Textiles 9/10  
Woodwork 9

## GRADE 9 LANGUAGE ELECTIVES

French 9  
Spanish 9

## GRADE 9 ELECTIVES OUTSIDE THE TIMETABLE

Vocal Jazz 9  
Jazz Band 9  
Drumline 9  
Concert Choir 9

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# COURSE SELECTION – GRADE 10

## ENGLISH PROGRAM

<u>Course</u>	<u>Credits</u>
1. English 10/English 10H*	4
2. Social Studies 10	4
3. Math 10 or 11	4
4. Science 10 or _____ if completed Science 9/10	4
5. Physical and Health Education 10	4
6. Career Life Education**	4
7. Elective	4
8. Elective	4

## FRENCH IMMERSION PROGRAM

<u>Course</u>	<u>Credits</u>
1. English 10/English 10H*	4
2. Sciences Humaines 10	4
3. Français Langue 10	4
4. Français Littérature 10	4
5. Math 10 or 11	4
6. Science 10 or _____ if completed Science 9/10	4
7. Physical and Health Education 10	4
8. Elective or Career Life Education**	4

\*Please note admittance to these courses depends on department approval and availability.

\*\*Students can choose to take Career Life Education in either grade 10 or grade 11.

Refer to [page 60](#) for additional math information

## ELECTIVES

### Languages

French 10  
Introductory Japanese 11  
Spanish 9, Spanish 10  
Introductory Italian 11

### Applied Design, Skills, and Technologies (ADST) Electives

Accounting 11  
Marketing 11  
Cafeteria 11  
Any computer course with required prerequisite  
Textiles 10  
Food Studies 10  
Drafting 10  
Electronics 10  
Metalwork 10  
Power Mechanics 10  
Engineering & Design 10  
Woodwork 10

### Arts Education Electives

Art 10 or 11  
Ceramics 10 or 11  
Drama 10  
Photography 11  
Band 10  
Music Composition 10  
Choir 10  
Musical Theatre Company 10  
Guitar I

### Outside the Timetable

Drumline 10  
Concert Choir 10  
Jazz Band 10  
Vocal Jazz

Note: Students in grade 10 **DO NOT** qualify for a Study Block. All students in grade 10 must take a minimum of eight classes.

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# GRADUATION CHECK

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**Grade 12 Students** in 2017/18  
2004 Graduation Program  
as of January 2017

Required Courses for Graduation	Exam/Assessment	Credits
1. Language Arts 10	Required Provincial Exam*	4
2. Science 10	Required Provincial Exam*	4
3. a Math 10	Required Provincial Exam*	4
4. Social Studies 10		4
5. Career Education		4
a) Planning 10		4
b) Grad Transitions 12		4
6. Physical Education 10		4
7. a Science 11 or 12		4
8. a Socials 11	Class Assessment instead of Provincial Exam	4
9. a Math 11 or 12		4
10. a Language Arts 11		4
11. a Language Arts 12	Required Provincial Exam	4
12. a Fine Arts or Applied Skill elective		4
3 Additional Elective Courses numbered 12		12
Additional Elective credits – not already indicated above (Gr. 10, 11 or 12)		16
Total Required Credits:	Ministry	80
	Walnut Grove Secondary	84

\* Not required if the course was taken in Summer Session 2016

**NOTE:** Students in Grade 12 are not required to write either the Literacy or the Math Skills Assessment to meet Graduation Requirements

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**Grade 11 Students** in 2017/18  
2018 Graduation Program  
as of January 2017

Required Courses for Graduation	Exam/Assessment	Credits
1. Language Arts 10		4
2. Science 10		4
3. a Math 10		4
4. Social Studies 10		4
5. Career Education		
a) Planning 10		4
b) Career Life Connections		4
6. Physical Education 10		4
7. a Science 11 or 12		4
8. a Socials 11 or 12		4
9. a Math 11 or 12		4
10. a Language Arts 11		4
11. a Language Arts 12 (Literacy Assessment required)		4
12. an Arts Education <u>or</u> ADST 10, 11, or 12		4
13. Literacy Assessment Required		
14. Numeracy Assessment Required (unless MA 10 provincial exam was written)		
<b>Required Course Credits:</b>		<b>52</b>
Additional Elective credits – not already indicated above (Gr. 10, 11 or 12)		
A. _____		
B. _____		
C. _____		
D. _____		
E. _____ 12		
F. _____ 12		
G. _____ 12		
	<i>Note: Students must have 16 grade 12 credits; Language Arts 12 gives them 4 of these credits</i>	28
	<b>Elective Course Credits:</b>	
Total Required Credits:	Ministry	80
	Walnut Grove Secondary	84

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**Grade 10 Students** in 2017/18  
2018 Graduation Program  
as of January 2017

Required Courses for Graduation	Exam/Assessment	Credits
1. a Language Arts 10		4
2. Science 10		4
3. a Math 10		4
4. Social Studies 10		4
5. Career Education		4
a) Career Life Education		4
b) Career Life Connections		4
6. Physical Health & Education 10		4
7. a Science 11 or 12		4
8. a Socials 11 or 12		4
9. a Math 11 or 12		4
10. a Language Arts 11		4
11. a Language Arts 12		4
12. an Arts Education <u>or</u> ADST 10, 11, or 12		4
13. Literacy Assessment	Required before Graduation	
14. Math Skills Assessment	Required before Graduation	
15. Capstone		
Required Course Credits:		52
Additional Elective credits – not already indicated above (Gr. 10, 11 or 12)		
A. _____		
B. _____		
C. _____		
D. _____		
E. _____ 12		
F. _____ 12		
G. _____ 12		
	<i>Note:</i> <i>Students must have 16 grade 12 credits; Language Arts 12 counts as 4 of these credits</i>	28
	Elective Course Credits:	
Total Required Credits:	Ministry	80
	Walnut Grove Secondary	84

**NOTE:** Students are required to write the Literacy Assessment and the Math Skills Assessment to meet Graduation Requirements

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**French Immersion**  
2018 Graduation Program  
As of January 2017

Required Courses for French Dogwood	Exam/Assessment	Credits
<b>Grade 8</b>		
<ul style="list-style-type: none"> <li>• Français Langue 8</li> <li>• Sciences Humaines 8</li> <li>• Sciences 8</li> <li>• Education Physique 8</li> </ul>		
<b>Grade 9</b>		
<ul style="list-style-type: none"> <li>• Français Langue 9</li> <li>• Sciences Humaines 9</li> <li>• Français Littérature 9</li> </ul>		
<b>Grade 10</b>		
<ul style="list-style-type: none"> <li>• a Language Arts 10</li> </ul>		4
<ul style="list-style-type: none"> <li>• Français Littérature 10*</li> </ul>		4*
<ul style="list-style-type: none"> <li>• Sciences Humaines 10*</li> </ul>		4*
<ul style="list-style-type: none"> <li>• Français Langue 10*</li> </ul>		4*
<ul style="list-style-type: none"> <li>• Science 10</li> </ul>		4
<ul style="list-style-type: none"> <li>• a Math 10</li> </ul>		4
<ul style="list-style-type: none"> <li>• Physical Health &amp; Education 10</li> </ul>		4
<b>Grade 11</b>		
<ul style="list-style-type: none"> <li>• a Language Arts 11</li> </ul>		4
<ul style="list-style-type: none"> <li>• La citoyenneté et le leadership à travers l'Histoire 11*</li> </ul>		4*
<ul style="list-style-type: none"> <li>• Français Langue/Littérature 11</li> </ul>		4*
<ul style="list-style-type: none"> <li>• a Science 11 or 12</li> </ul>		4
<ul style="list-style-type: none"> <li>• a Math 11 or 12</li> </ul>		4
<b>Grade 12</b>		
<ul style="list-style-type: none"> <li>• Language Arts 12</li> </ul>		4
<ul style="list-style-type: none"> <li>• Français Langue/Littérature 12</li> </ul>		4*
<ul style="list-style-type: none"> <li>• Capstone – French Immersion*</li> </ul>		*
<b>Sometime in Grade 10-12</b>		
16. Arts Education 10, 11, or 12 <u>or</u> Applied Design, Skills & Technologies 10, 11, or 12		4
17. Career Education		
a) Career Life Education		4
b) Career Life Connections		4
Required FI Credits:		24*
Required Course Credits:		40
Additional Elective credits – not already indicated above (Gr. 10, 11 or 12)		
A. Français Langue                   12 (above)		
B. _____12                   4		
C. _____12                   4		
D. _____                       4		
	<i>Note:</i> Students must have 16 Grade 12 credits; Language Arts 12 and FRAL 12 count as 8 of these credits; student need 2 more Grade courses 12	12
	Elective Course Credits:	
Total Required Credits:	Ministry	80
	Walnut Grove Secondary	84

**NOTE:** Students must write the **Literacy Assessment** and the **Math Skills Assessment** to meet Graduation Requirements

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# GRADES 9, 10, 11 & 12 COURSE PREREQUISITES

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## AP CAPSTONE

AP Capstone Seminar 11 ..... completion of English 10, Science 10, and Social Studies 10  
 AP Capstone Research 12 ..... coming in 2018/19

## BUSINESS EDUCATION

Accounting 11 ..... in grade 10, 11, or 12  
 Accounting 12 ..... Accounting 11  
 Financial Accounting 12 ..... Math 11 and/or Accounting 11  
 Entrepreneurship 12 ..... in grade 10, 11 or 12  
 Marketing 11 ..... in grade 10, 11, or 12  
 Marketing 12 ..... Marketing 11 or in Grade 12  
 Tourism 11 ..... in grade 10, 11, or 12  
 Tourism 12 ..... Tourism 11 or in grade 12

## CAREER LIFE EDUCATION

Career Life Education ..... required  
 Graduation Transitions ..... in grade 12  
 Work Experience ..... in grade 11 or 12

## COMPUTER STUDIES

Computer Apps ..... no prerequisite  
 Computer Graphics ..... no prerequisite  
 Computer Essentials 12 ..... in grade 11 or 12  
 AP Computer Science Principles 12 ..... in grade 11 or 12  
 3D Graphics I ..... Computer Apps or Computer Graphics  
 3D Graphics II 12 ..... 3D Graphics I  
 3D Fabrication ..... Computer Graphics or Computer Apps (with permission)  
 Computer Repair 12 ..... Computer Apps or Computer Graphics  
 Digital Sculpting 12 ..... 3D Graphics I (or special permission for Art students)  
 Game Coding I ..... Computer Apps or Computer Graphics  
 Game Coding II 12 ..... Game Coding I  
 Graphic Design 12 ..... Computer Apps or Computer Graphics  
 Programming 12 ..... Computer Apps or Computer Graphics  
 Video Game Design I ..... Animation 11 or Game Creation 11  
 Video Game Design II 12 ..... Video Game Design I  
 Video Production I ..... Computer Apps or Computer Graphics  
 Video Production II 12 ..... Video Production I

## ENGLISH

English 9 ..... English 8, Humanities 8 or English 8 Honours  
 English 9 Honours ..... English 8 or 8 Honours and department approval  
 English 10 ..... English 9, Humanities 9 or English 9 Honours  
 English 10 Honours ..... English 9, Humanities 9 or English 9 Honours, and department approval  
 English 11 ..... English 10 or English 10 Honours  
 Communications 11 ..... English 10 and teacher recommendation  
 Communications 12 ..... English 11 or Communications 11 and teacher recommendation  
 AP English Language and Composition 12 ..... English 10 or 10 Honours, and department approval  
 English 12 ..... English 11 or AP English Language and Composition 12  
 AP English Literature & Composition 12 ..... English 11 or AP English Language and Composition 12, and department approval

English Literature 12.....grade 11 students: English 10 or 10 Honours and department approval  
 English Literature 12.....grade 12 students: English 11 or AP English Language and Composition 12

**FINE ARTS**

**Art**

Art 10 .....in grade 9 or 10  
 Ceramics 10.....in grade 9 or 10  
 Art Foundations 11.....Art 10 and in grade 11 or 12  
 Art Foundations 12.....Art 11 or Studio Art 12 (Drawing & Painting)  
 Photography 11.....in grade 10, 11, or 12  
 Photography 12.....Photography 11  
 Studio Art 11 (Drawing & Painting) .....in grade 10, 11, or 12  
 Studio Art 11 (Ceramics/Sculpture) .....Ceramics 10 or permission of instructor  
 Studio Art 12 (Drawing & Painting) .....Studio Art 11 (Drawing & Painting) or permission of instructor  
 Studio Art 12 (Ceramics/Sculpture) .....Studio Art 11 (Ceramics/Sculpture) or permission of instructor  
 AP Studio Art 2-D Design 12 .....taken concurrently with Studio Art 12  
 Yearbook 11.....Photography 11 or permission of instructor  
 Yearbook 12.....Yearbook 11 or Photography 11 or Photography 12 or permission of instructor

**Drama**

Drama 9 .....none  
 Drama 10 .....in grade 10  
 Theatre Performance 11 (Acting).....none, although Drama 8, 9, 10 recommended  
 Theatre Performance12 (Acting).....Theatre Performance 11  
 Theatre Performance 11 (Direct/Script).....Theatre Performance11 (Acting) should be taken concurrently  
 Theatre Performance 12 (Direct/Script).....Theatre Performance 11 or permission of instructor  
 Theatre Production 12 (Tech Theatre).....in grade 11 or 12  
 Musical Theatre Company 9-12.....no prerequisite

**Music**

Band 9.....Band 8  
 Band 10/11/12 .....Band 9  
 Jazz Band 10/11/12 .....Band 9  
 Concert Choir 10/11/12/Chamber Choir 10/11/12 .....Concert Choir 9  
 Vocal Jazz 10/11/12.....teacher approval through auditions  
 Music: Composition & Technology 9.....ability to read music  
 Music: Composition & Technology 10.....ability to read music  
 Music: Composition & Technology 11.....Music: Composition & Technology 10  
 Music: Composition & Technology 12.....Music: Composition & Technology 11  
 Drumline 9/10/11.....permission of instructor or previous level of Drumline  
 Guitar I .....in grade 10, 11, or 12  
 Guitar II .....Guitar I or permission of instructor. Must be in grade 10, 11, or 12

**FRENCH IMMERSION**

Français Littérature 9 .....FRAL 8, Sciences Humaines 8, Sciences 8, Education Physique 8  
 Français Langue 9 .....FRAL 8 Sciences Humaines 8, Sciences 8, Education Physique 8  
 Français Littérature 10 .....FRAL 9, Français Littérature 9, Sciences Humaines 9  
 Français Langue 10 .....FRAL 9, Français Littérature 9, Sciences Humaines 9  
 Français Langue/Littérature 11 .....FRAL 10, Sciences Humaines 10  
 Français Langue/Littérature 12 .....FRAL 11, Sciences Humaines 11  
 Sciences Humaines 9 .....FRAL 8, Sciences Humaines 8, Sciences 8, Education Physique 8  
 Sciences Humaines 10 .....Sciences Humaines 9, FRAL 9, Français Communication 9  
 La citoyenneté et le leadership à travers l'Histoire 11 .....Sciences Humaines 10  
 AP French Language and Culture 12 .....FRAL 11

## **HOME ECONOMICS**

Food Studies 9/10.....	in grade 9 or higher
Food Studies 11.....	Food Studies 10
Food Studies 12.....	Food Studies 11
Cafeteria 11.....	in grade 10 or higher
Cafeteria 12.....	Cafeteria 11
Textiles 9/10.....	no prerequisite
Textiles 11.....	Textiles 9/10
Textiles 12.....	Textiles 11
Advanced Textiles 12.....	Textiles 12

## **HUMANITIES**

Humanities 9.....	English 8 and Social Studies 8
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## **LANGUAGES**

French 9.....	French 8
French 10.....	French 9
French 11.....	French 10
French 12.....	French 11
Introductory Japanese 11.....	in grade 10, 11, or 12
Japanese 11.....	Japanese 9, Japanese 10, or Introductory Japanese 11
Japanese 12.....	Japanese 11
Spanish 9.....	French 8
Spanish 10.....	Spanish 9
Spanish 11.....	Spanish 10
Spanish 12.....	Spanish 11
Introductory Italian 11.....	completion of any grade 9 language course

## **LEADERSHIP**

Leadership 11/12 – Gator Pod.....	in grade 11 or 12
Leadership in Sports and Athletics 11/12.....	in grade 11 or 12
Student Aide.....	in grade 11 or 12

## **MATHEMATICS**

Math 9.....	Math 8
Apprenticeship & Workplace Math 10.....	Math 9
Foundations of Math 10.....	Math 9
Apprenticeship & Workplace Math 11.....	Apprenticeship & Workplace Math 10
Foundations of Math 11.....	Foundations of Math 10
Foundations of Math 12.....	Foundations of Math 11
Pre-calculus 11.....	Foundations of Math 10 with a recommended minimum mark of 60%
Pre-calculus 12.....	Pre-calculus 11
AP Calculus 12.....	Pre-calculus 12 or may be taken concurrently with Pre-calculus 12 with teacher permission

## **PHYSICAL EDUCATION**

Physical and Health Education 9 Boys and Girls.....	PHE 8
Physical Education 10 Boys and Girls.....	PE 9 or Team Sports 9
Physical Education 11 Coed.....	completion of any grade 10 PE credit course and in grade 11
Physical Education 12 Coed.....	completion of any grade 11 PE credit course and in grade 12
Team Sports 9 Boys and Girls.....	in grade 9 and permission of PE department
Team Sports 10 Boys and Girls.....	in grade 10 and permission of PE department
Fitness & Wellness 10 Coed.....	completion of any grade 9 PE credit course and in grade 10
Fitness & Wellness 11 Coed.....	completion of any grade 10 PE credit course and in grade 11
Fitness & Wellness 12 Coed.....	completion of any grade 11 PE credit course and in grade 12
Strength & Conditioning 10 Coed.....	PE 9 or Team Sports 9

Strength & Conditioning 11 Coed .....	completion of any grade 10 PE credit course and in grade 11
Strength & Conditioning 12 Coed .....	completion of any grade 11 PE credit course and in grade 12
Aerobic Conditioning 10 Coed .....	PE 9 or Team Sports 9
Aerobic Conditioning 11 Coed .....	completion of any grade 10 PE credit course and in grade 11
Aerobic Conditioning 12 Coed .....	completion of any grade 11 PE credit course and in grade 12
ELITE Athletic Development Program .....	by application and permission of PE Department. Must be in grade 10, 11, or 12

**RESOURCE**

STSS 9.....	STSS 8
YLS 10.....	STSS 9
YLS 11.....	YLS 10
YLS 12.....	YLS 11

**SCIENCE**

Science 9 .....	Science 8
Science 9/10 Honours.....	Science 8 and department recommendation
Science 10 .....	Science 9
Biology 11 .....	Science 10 or Science 9/10 Honours
Pre AP Biology 11.....	Science 10 or Science 9/10 Honours (B average or above)
Biology 12 .....	Biology 11 or Chemistry 11
AP Biology 12 .....	Pre AP Biology 11, Chemistry 11 recommended
Pre AP Chemistry 11, Chemistry 11 .....	Science 10 or Science 9/10 H, recommend Math 11 concurrently
AP Chemistry 12, Chemistry 12.....	Chemistry 11, recommend Math 12 concurrently
Earth Science 11 (Geology).....	Science 10 or Science 9/10 Honours
Earth Science 11 (Astronomy) .....	Science 10 or Science 9/10 Honours
Geology 12.....	a Science 11
Environmental Science 12 .....	in grade 11 or 12
Science for Citizens 11 .....	Science 10
Physics 11.....	Science 10 or Science 9/10 H and Foundations of Math 10
Physics 12.....	Physics 11 and Pre-calculus 11
AP Physics 1.....	Science 10 or Science 9/10H, Foundations of Math 10, and English 10 Recommend Pre-calculus 11 concurrently.
AP Physics 2.....	AP Physics 1 or Physics 12 and Pre-calculus 11
Psychology 12.....	in grade 11 or 12
AP Psychology 12.....	Psychology 12 and Biology 11 or permission of instructor

**SOCIAL STUDIES**

Social Studies 9 .....	Social Studies 8
Social Studies 10 .....	Social Studies 9
BC First Peoples 11 .....	Social Studies 10
Political Studies 11.....	Social Studies 10
20 <sup>th</sup> Century World History through Film 11.....	Social Studies 10
Economics 12 .....	in grade 11 or 12
AP Microeconomics/Macroeconomics 12 .....	in grade 11 or 12
History 12.....	in grade 11 or 12
Law 12 .....	in grade 11 or 12
Philosophy 12 .....	in grade 11 or 12
Social Justice 12.....	in grade 11 or 12
AP European History 12 .....	a Social Studies 11

## TECHNOLOGY EDUCATION

Engineering & Design 10 .....	in grade 9 or 10
Engineering & Design 11 .....	in grade 10 or 11
Engineering & Design 12 .....	Engineering & Design 11
Drafting 10 (Level 1) .....	no prerequisite
Drafting & Design 11 (Level 2).....	Drafting 10
Drafting & Design 12 (Level 3).....	Drafting 11
Drafting & Design 12 – Advanced (Level 4).....	Drafting & Design 12
D & D Arch/Habitat (Level 4).....	Drafting & Design 12
D & D Eng/Mechanical (Level 4).....	Drafting & Design 12
Woodworking 9 .....	no prerequisite
Woodworking 10 .....	Woodwork 9 or in grade 10
Carpentry & Joinery 11 .....	in grade 11 or 12 or permission of instructor
Carpentry & Joinery 11 - Woodworking for Girls.....	in grade 10, 11, or 12
Guitar Building 12 .....	WW 10 or taking CJ 11 or permission of instructor
Carpentry 12 Options.....	Carpentry and Joinery 11
Electronics and Robotics 9 .....	no prerequisite
Electronics 10 (Beginner or Advanced) .....	none for Beginner, Electronics and Robotics 9 for Advanced
Electronics 11 (Beginner or Advanced) .....	in Grade 11 or 12 for Beginner, Electronics 10 for Advanced
Electronics 12 .....	Electronics 11
Electronics 12 Options .....	Electronics 11 or permission of instructor
Power Mechanics 10.....	in grade 9 or 10
Auto Technology 11 .....	in grade 11 or Power Mechanics 10
Auto Technology 12 Options.....	Auto Technology 11
Metalwork 9.....	no prerequisite
Metalwork 10.....	in grade 10 or 11
Metal Fab and Mach 11 .....	in grade 11 or 12
Metal F & M Art Metal/Jewel 12 .....	no prerequisite
Metal Fab and Mach 12 .....	Metal Fab and Mach 11
Metal 12 Options.....	Metal F & M 11 or combined with Metal F & M 11
Laser & Print Production 12 .....	in grade 11 or 12

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# DESTINATIONS: AFTER GRADUATION

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Many jobs require education and training beyond high school graduation. In a competitive market, you must have unique specialized skills and knowledge to make you stand out from the crowd. Harmony between these two major factors requires serious soul searching and the motivation to find out what training and education is possible for you. Also, you need to make some decisions around what you will be satisfied doing.

The following information provides an overview of some of the major routes you can follow. Acquaint yourself with what each has to offer. Our Career Advisor can give you more information.

<b>THE ITA YOUTH WORK IN TRADES PROGRAM (formerly SSA)</b>
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### How does it work?

- Students who work in a trade area under the supervision of a journeyman while in school, may be eligible to sign up as an apprentice.
- If the students meet all the criteria they will be signed up as an apprentice with the Industry Training Authority as well as a Youth Work in Trades Apprentice with the Langley School District.

### How do students benefit?

- It provides a smoother transition from school to work, and a quicker route to certification in a trade - and to the earning power that goes with it.
- Students will receive up to 16 credits on their school transcripts (four courses) when they complete 480 hours of work as a Youth Work in Trades Apprentice. These hours can be accumulated in a variety of ways. Please see the Career Advisor for more information.

1.	SSA 11A	4 Credits	(120 hours on the job PAID training)
2.	SSA 11B	4 Credits	(120 hours on the job PAID training)
3.	SSA 12A	4 Credits	(120 hours on the job PAID training)
4.	SSA 12B	4 Credits	(120 hours on the job PAID training)

- Students “earn while they learn,” as well as get a head start on their careers while still attending secondary school.
- Students may become eligible for a \$1000 award by completing 900 hours of their apprenticeship by December 31 of the year they turn 19, and attaining a C+ average or higher in their grade 12 courses.

### Who is eligible?

- Students 16 years of age enrolled in grade 10, 11, or 12
- Students must be working with a journeyman who will agree to commit to their training.
- Like other apprentices, Youth Work in Trades Apprentices are responsible for finding an employer who will hire them and commit to their training as a sponsor.

### Popular Trades for Secondary School Apprentices:

- |                    |                |
|--------------------|----------------|
| • Cook             | • Baker        |
| • Electrician      | • Hairstylist  |
| • Welder           | • Carpenter    |
| • Plumber          | • Cabinetmaker |
| • Metal Fabricator | • Roofer       |
| • Mechanic         |                |
| • Parts Person     |                |



### Not sure which trade is right for you?

- Check the Industry Training Authority website, [www.itabc.ca](http://www.itabc.ca), for the current list of over 100 BC and “Red Seal” trades.

### How do I apply?

- Obtain an application package and general information about apprenticeships from the school's Youth Work in Trades teacher (Mr. McKay) or see our Career Advisor for more details.

## THE ITA YOUTH TRAIN IN TRADES PROGRAM (formerly ACE-IT)

Students from across Langley School District can apply for a seat in 1 and 2 semester programs during their Grade 11 and/or 12 years. The 'dual' piece means, that students are earning high school graduation credits and post-secondary credits. The tuition for these programs is covered by a joint agreement with Langley School District and post-secondary institutions. However, there may be fees for equipment and supplies.

### **Examples of three programs:**

Hairstyling Two semesters	Aldergrove Community School	<b>Benefits:</b> <ul style="list-style-type: none"> <li>• Credit for 8 courses (32 credits)</li> <li>• CIABC and Beauty Council of BC registration as a trainee</li> <li>• 800 hours of credit towards CIABC hairdressing training</li> <li>• Dogwood Diploma for secondary graduation.</li> </ul>
Plumbing and Piping Two semesters	Langley Secondary School	<b>Benefits:</b> <ul style="list-style-type: none"> <li>• Credits for minimum 4 courses (16 credits) and as many as 9 courses (36 credits)</li> <li>• Level 1 piping trades apprenticeship training</li> <li>• Practical work experience</li> <li>• Credit leading to BCIT's Foundation Piping Trades Certificate</li> <li>• Dogwood Diploma for secondary graduation</li> </ul>
Professional Cook 1	Walnut Grove Secondary School	<b>Benefits:</b> <ul style="list-style-type: none"> <li>• Credit for at least 8 high school courses (32 credits) in Cook Training and work experience</li> <li>• Professional Cook 1 (PC1) Industry certification</li> <li>• Level 1 technical training</li> <li>• VCC certificate</li> <li>• Practical work experience in the field</li> <li>• ITA registration</li> </ul>

For more information and application process, go to <http://wgssccareercentre.weebly.com/ita-youth-train-in-trades.html>  
 You may also pick up program specific information sheets from our Career Advisor in the Career Center.

### Automotive Service Technician partnered with KPU at Aldergrove Community Secondary

<u>Program Length and Dates</u>	<u>What do you learn?</u>	<u>What do you leave with upon successful completion of the program?</u>	<u>What do you need to get into the program?</u>
1 semester & July (Work Experience)  Feb to July For grade 11 and 12 students	Skills and knowledge to start working in automotive service.  Level I auto service technician trades skills.	<ul style="list-style-type: none"> <li>credit for 5 high school courses (20 credits)</li> <li>Training in Auto Service leading to Level 1 apprenticeship exam</li> <li>some practical work experience in the field</li> <li>some Kwantlen University credits</li> <li>ITA Registration</li> </ul>	<ul style="list-style-type: none"> <li>Grade 10 completion plus any Math 11 and Eng 11 or Comm. 11</li> <li>Automotive 11 or equivalent</li> <li>intention to graduate</li> <li>genuine interest in automotive service</li> <li>commitment to learning the skills, knowledge and attitudes required to do well in the field</li> </ul>

### Carpentry partnered with KPU at Aldergrove Community Secondary

<u>Program Length and Dates</u>	<u>What do you learn?</u>	<u>What do you leave with upon successful completion of the program?</u>	<u>What do you need to get into the program?</u>
1 semester & July (Work Experience)  Feb to July for grade 11 and 12 students	Skills and knowledge to start working in construction/carpentry.  Level I carpentry trades skills.	<ul style="list-style-type: none"> <li>credit for 5 high school courses (20 credits)</li> <li>Level I carpentry apprenticeship training</li> <li>some practical work experience in the field</li> <li>college credits leading to Kwantlen's Citation in ELTT Carpentry/Construction</li> <li>ITA registration</li> </ul>	<ul style="list-style-type: none"> <li>grade 10 completion plus any Math 11 and Eng 11 or Comm. 11</li> <li>intention to graduate</li> <li>genuine interest in construction</li> <li>commitment to learning the skills, knowledge and attitudes</li> <li>required to do well in the field</li> </ul>

### Hairstylist at Aldergrove Community Secondary partnered with ITA and Beauty Council of BC

<u>Program Length and Dates</u>	<u>What do you learn?</u>	<u>What do you leave with upon successful completion of the program?</u>	<u>What do you need to get into the program?</u>
2 semesters  Feb to following Jan for grade 11 and 12 students	Skills and knowledge to become a certified hairstylist in BC	<ul style="list-style-type: none"> <li>credit for 10 courses (40 credits)</li> <li>Beauty Council of BC registration as a trainee</li> <li>900 hours of credit towards ITA Hairstylist foundation</li> <li>ITA Registration as a trainee</li> <li>practical work experience in the field and in the training salon</li> </ul>	<ul style="list-style-type: none"> <li>sincere interest in hairdressing</li> <li>grade 10 completion</li> <li>plus Eng 11 or Comm. 11</li> <li>intention to graduate</li> <li>fully proficient in English</li> <li>language</li> <li>interest in working with people</li> </ul>

### Piping/Plumbing partnered with BCIT at Langley Secondary School

<u>Program Length and Dates</u>	<u>What do you learn?</u>	<u>What do you leave with upon successful completion of the program?</u>	<u>What do you need to get into the program?</u>
<b>2 semesters</b>  Feb to following Jan for grade 11 and 12 students	Skills and knowledge to start working in the piping trades: plumbing, gas fitting, steam fitting and sprinkler fitting	<ul style="list-style-type: none"> <li>credit for at least 4 high school courses (16 credits) and as many as 9 courses (36 credits)</li> <li>Level I piping trades apprenticeship training</li> <li>practical work experience in the field</li> <li>credit leading to BCIT's ELTT Piping Trades Certificate</li> <li>ITA Registration</li> </ul>	<ul style="list-style-type: none"> <li>grade 10 completion plus any Math 11 &amp; Eng. 11 or Comm. 11</li> <li>intention to graduate</li> <li>genuine interest in piping/plumbing</li> <li>commitment to learning the skills, knowledge and attitudes required to do well in the field</li> </ul>

**Electrical** partnered with BCIT at BCIT's Satellite Campus located at DW Poppy Secondary

<u>Program Length and Dates</u>	<u>What do you learn?</u>	<u>What do you leave with upon successful completion of the program?</u>	<u>What do you need to get into the program?</u>
1 semester 24 week program  Feb to July for grade 12 students	Skills and knowledge to start working in the electrical trade: Planning, assembling, installing, testing, repairing and maintaining electrical equipment and systems.	Credit leading to: <ul style="list-style-type: none"> <li>• BCIT's Electrical Foundation Certificate of Trades Training</li> <li>• 18 credits (6 courses) of secondary school graduation credit</li> <li>• Technical training for Level 1 Apprenticeship</li> </ul>	<ul style="list-style-type: none"> <li>• Genuine interest &amp; drive to become an electrician</li> <li>• Intention to graduate</li> <li>• Commitment to learning the skills, knowledge &amp; attitudes required to do well in this field</li> <li>• Math 12 &amp; Physics 11, Eng 12 or Comm 12</li> </ul>

**Horticulture Apprenticeship** partnered with KPU located at KPU Langley Campus

<u>Program Length and Dates</u>	<u>What do you learn?</u>	<u>What do you leave with upon successful completion of the program?</u>	<u>What do you need to get into the program?</u>
1 semester  6 weeks of Level 1 training plus 13 weeks of paid work experience  Feb – April For grade 11 & 12 students	Skills & knowledge needed to complete Level 1 Horticulture Apprenticeship technical training. Included are botany, soils, plant identification, pest management & practical skills:  to use equipment, to conduct basic engine maintenance, to calibrate fertilizer spreaders, to make pruning cuts and to work as part of a horticulture maintenance team.	<ul style="list-style-type: none"> <li>• Dual credit at the Gr. 12 level</li> <li>• Credit for Level 1 Horticulture Apprenticeship</li> <li>• ITA registration</li> <li>• Kwantlen student transcript and registration</li> </ul>	<ul style="list-style-type: none"> <li>• Good attitude and genuine interest</li> <li>• Ability to learn through both “reading” &amp; “doing”</li> <li>• Physically able to do the work</li> <li>• English 10 &amp; Math 10</li> <li>• Grade 10 completion recommended</li> <li>• Desire to work and attend school during the semester</li> </ul>

**Professional Cook 1** partnered with VCC located at Walnut Grove Secondary School

<u>Program Length and Dates</u>	<u>What do you learn?</u>	<u>What do you leave with upon successful completion of the program?</u>	<u>What do you need to get into the program?</u>
Full school year Sep to June  For Grade 12 students (some skilled Grade 11 students may be considered)  Program runs Mon – Thurs 2:30 – 7:30PM with experience on Fridays (200 hours)	Skills and knowledge required to succeed in a range of industries; including restaurants, hotels, institutional kitchens & catering operations	<ul style="list-style-type: none"> <li>• Credit for at least 8 high school courses (32 credits) in Cook Training and work experience</li> <li>• Professional Cook 1 (PC1) Industry certification</li> <li>• Level 1 technical training</li> <li>• VCC certificate</li> <li>• Practical work experience in the field</li> <li>• ITA registration</li> </ul>	<ul style="list-style-type: none"> <li>• Good attitude and genuine interest in working in the culinary industry</li> <li>• Physical ability to safely use knives and other related kitchen tools</li> </ul> <p>Entrance Requirements:</p> <ul style="list-style-type: none"> <li>• Fully proficient in the English language Completion of Grade 11</li> <li>• Food Safe certification</li> <li>• One of the following school courses: Cafeteria or Cook Training, Foods and Nutrition 11/12</li> </ul> <p style="text-align: center;"><b>OR</b></p> <ul style="list-style-type: none"> <li>• Paid or volunteer food preparation work in a restaurant, catering business or professional kitchen</li> </ul>

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## FACULTY OF ARTS (&/OR SOCIAL SCIENCES) - BC UNIVERSITY ENTRANCE REQUIREMENTS

	UBC-Vancouver	UBC-Okanagan	SFU	U Vic	UFV	KPU	CAP U	TWU	TRU
<b>English 12 and Graduation (Not Comm 12)</b>	Required Min. final grade (blended) of 70% in Eng 11 or 12	Required	Required Min. blended grade of 60%	Required – 86% + on En 12 prov. exam exempts you from an academic writing course	Required Min. grade of C+ (not blended with prov. exam)	Required Min. grade of C+ (not blended with prov. exam)	Required Min. grade of C+ (67%)	Required Min. 60% on provincial exam	Required Min. 73%
<b>Foundations of Math 11, 12 Pre-Calculus 11, 12</b>	Foundations of Math 12 <b>OR</b> Pre-Calculus 11	NO	Foundations of Math 11 <b>OR</b> Pre-Calculus 11 Min. 60%	Foundations of Math 11 <b>OR</b> Pre-Calculus 11	NO	NO	Foundations of Math 11 <b>OR</b> Pre-Calculus 11	NO	Foundations of Math 11 <b>OR</b> Pre-Calculus 11 Recommended if considering Education
<b>Approved Second Language 11</b>	Required	Recommended	Required but can be an Introductory Language 11	Recommended (Introductory Language 11 does not qualify)	Recommended	Recommended	NO	NO	Recommended (any second language to Grade 12)
<b>NOTE: 2<sup>nd</sup> language for B.A. Degree Completion</b>	Gr. 12 2 <sup>nd</sup> language will meet the 2 <sup>nd</sup> language req.	Gr. 12 2 <sup>nd</sup> language will meet the 2 <sup>nd</sup> language req.			Gr. 11 2 <sup>nd</sup> language (Intro Lang 11 doesn't meet this)	Gr. 11 2 <sup>nd</sup> language (Intro Lang 11 doesn't meet this)	Gr. 12 2 <sup>nd</sup> language with a min. B will meet 2 <sup>nd</sup> language req.	2 university courses in a 2 <sup>nd</sup> language	
<b>One Science 11</b> -Biology 11 -Chemistry 11 -Physics 11 -Earth Science 11	Required (min. 70%)	Required (min. 70%)	Required	Required	NO	NO	NO	NO	NO
<b>Grade 12 Requirements for Universities</b>  <b>GPA is calculated using the courses required for admissions</b>	English 12 + three academically approved courses from their list. See UBC website. * Students majoring in Economics must have Pre-Cal 12  <b>Cannot use Foundations of Math 12 as one of the three</b>  Min. avg 85 – 90%	English 12 + three academically approved courses from their list. See UBC website  <b>Cannot use Foundations of Math 12 as one of the three</b>  Min. avg 75 – 80%	English 12 + three academically approved courses from their list. See SFU website <b>Can use Foundations of Math 12 as one of the three but only one of FOM 12 or Pre-Calculus 12 may be used in the admission average</b>  Min. avg 80%	English 12 + three academically approved courses from their list. See UVIC website  <b>Can use Foundations of Math 12 as one of the three.</b>  Min. avg 75 - 80%	English 12 + two academically approved courses from their list with a minimum B average. See UFV website  <b>Can use Foundations of Math 12 as one of the two.</b>	English 12  See KPU website	English 12 + two academically approved courses from their list. See CAP U website  Min. avg 60%	English 12 + three academically approved courses from their list. See TWU website  Min. avg 67%	English 12 + graduation

**Grade 12 “Academically Approved” course list are degree and program specific. These WGSS courses are the Academically Approved Grade 12 courses for the majority of BC universities:**

Biology 12                      French 12                      English Literature 12  
Chemistry 12                  Japanese 12                  Français Langue 12 (**REQUIRED** provincial)  
Physics 12                      Spanish 12  
Geology 12                      Economics 12                  **ALL AP** courses may be used for admission  
Pre-Calculus 12                History 12  
Law 12

**These WGSS courses are the Academically Approved Grade 12 courses for some BC universities:**

Foundations of Math 12              Philosophy 12              Social Justice 12

**The above information was accurate at time of printing. Students and parents are advised that information can change without notice. Check web sites to confirm requirements and to find the most up to date information.**

January 2017

**Traditional UNIVERSITIES**

**UNIVERSITY DOOR ONLY**  
Must meet specified degree program requirements and admission criteria, including GPA.

**UBC  
SFU  
UVIC  
EMILY CARR**

**UBC - Language 11 REQUIRED**  
**SFU - Language 11 or Beg. Language 11**  
**UVIC, ECU - No Language 11 required**

**Comprehensive UNIVERSITIES**

**University Door**  
Must meet degree program requirements and admission criteria, including GPA.

**BCIT      KPU  
CAP U      UFV  
UNBC      TRU  
VIU**

**College Door**

- Provides opportunities to meet entry requirements for the University Door
- Associate degrees, diplomas or certificates in area of study
- Transfer programs
- Apprenticeships
- Up-grading

**NO Language Requirement**

**COLLEGES**

**College Door**

- Provides opportunities to meet entry requirements for University
- Associate degrees, diplomas or certificates
- Apprenticeship courses.
- Transfer courses or programs
- Up-grading

**DOUGLAS  
CAMOSUN  
NORTH ISLAND  
OKANAGAN  
SELKIRK  
VCC**

**Some Specialty Degrees**

- These colleges offer a limited number of Bachelor degree programs. Such as:  
    Nursing  
    Business
- Usually first year college you can complete prerequisites and then apply for the degree program.
- Refer to each degree programs entrance requirements.

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# ADVANCED PLACEMENT PROGRAM

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The Advanced Placement (AP) Program is a program of enrichment and acceleration that allows motivated students to begin their college or university studies while still in secondary school. The AP program helps students pursue challenging intellectual activities and develop higher level thinking skills, such as independent study and research, analysis of knowledge, subject enrichment and sociological implications of the various areas of study. Upon successful completion of an Advanced Placement course, students will have an opportunity to write the AP exam (fee \$135 per exam). Depending on the exam result, students may have the option to receive credit for a first-year university course.

## **University Acceptance of AP**

Most major colleges and universities accept AP courses with over 90% of them granting actual course credit as well as potential placement to second year. In British Columbia, UBC, SFU and UVIC all accept courses for Advanced Placement and many for advanced credit as well.

## **Pre-AP Courses beginning in Grade 11**

Pre AP Biology 11  
Pre AP Chemistry 11

\*Other AP courses also have recommended and/or required prerequisite courses.

## **AP Courses offered at WGSS**

AP Biology 12  
AP Calculus 12  
AP Capstone Seminar 11  
AP Chemistry 12  
AP Computer Science Principles 12 (offered in Grade 11)  
AP English Language & Composition 12 (offered in Grade 11)  
AP English Literature & Composition 12  
AP European History 12  
AP French Language and Culture 12 (offered for students enrolled in FRAL 12)  
AP Microeconomics/Macroeconomics 12 (offered as one course)  
AP Physics 1 (offered in Grade 11)  
AP Physics 2  
AP Psychology 12  
AP Studio Art 2-D Design 12

**\*For a more detailed description of each course and the prerequisite requirements, please refer to the course descriptions within each department for additional information.**

## **Who Should Choose AP Courses?**

Students who are motivated to challenge themselves academically in a specific subject area may consider an AP course. These university-level courses require a significant commitment and students will experience a high level of expectations from their teachers. By taking an AP course, you will get the university course experience in a secondary school setting. You also have the opportunity to get credit for the university course, or preview the material before university.

## **What Course Credits do I Receive?**

Students enrolled in Biology, Chemistry, Economics, English, and Physics AP courses will receive eight provincial course credits upon successful completion. For example: AP Biology 12- four credits AND Biology 12 - four credits.

All post-secondary institutions recognize AP Courses as “approved academic Grade 12” courses for the calculation of admission GPA.

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# HONOURS PROGRAM

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The Honours Program is designed to complement other programs in keeping with the philosophy of the school. Students may register in one or more honours courses selected from the available offerings in the areas of Mathematics, Science and English.

## PROGRAM STRUCTURE

- I The Honours Program consists of:
  - the regular course curriculum at each grade level
  - enriched curriculum or accelerated curriculum
  
- II Eligibility and Selection  
Students may apply for any of the honours programs based on self-nomination. Candidates will be recommended.
  - Recommendation by the teacher of a previous relevant course
  - Permission of the Department

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# THE EDGE ACADEMY

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The Walnut Grove EDGE Academy is an integrated studies approach to learning. British Columbia provides a unique learning environment for teaching and learning about our great outdoors and the school curricula.

The EDGE program is a blend of classroom based activities and fieldtrips. In many cases, outdoor trips are used to gather information and data that is later used in the classroom. In other situations, out-of-class activities become the classroom with readings, lectures, research, journal writing, and classroom instruction occurring.

Students in the EDGE program will be enrolled in the following courses: English 11, Human Geography 11, PE 11 and Math. For their Math course, students will be able to take Foundations of Math 11, Pre-Calculus 11, or Pre-Calculus 12. The four EDGE courses are scheduled into one day of the WGSS block cycle. Students select up to four additional courses for the other day's rotation.

A typical year in the EDGE Academy will involve three extended fieldtrips:

- September           alpine hiking tour (three days): backpacking, tenting, hiking
- January             winter camp (four days): snowshoeing, zip-lining, skating
- May                  biking/kayaking (four days): cycling, kayaking, tide pools

In addition to these outings, there are a number of one-day field trips. These will occur during the EDGE class day and will not require missed class time from other school courses.

As would be expected, involvement in an outdoor education program has a cost factor. Students will be required to pay \$750. This fee is divided into two installments, spread over the year. The money covers the cost of transportation, toll or ferry costs, camp registrations, and accommodation expenses. The only additional cost is food during the overnight trips.

Students enrolled in the EDGE Academy are expected to own or have access to comfortable hiking shoes and water-proof outerwear. A good quality sleeping bag and a backpack are also needed, but we have a number of those available.

The EDGE program has a limited enrollment capacity. As a result, interested students will have to meet certain criteria and go through an application process. Application forms will be available during course planning.

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# ENGLISH LANGUAGE LEARNERS

Building Introduction Communication Skills	Building Vocabulary Skills in Content Areas	Developing Skills in Academic Writing	Strengthening Academic Writing	English 11/12
<b>ELL Communication Skills (all grades)</b>  ELL Social Studies - <i>Introduction to Academic Success</i>  ELL English – <i>Building Communication Skills</i>  ELL Science – <i>Introduction to Science Concepts</i>  ELL Drama (focus on oral communication) <i>regular math and electives</i>	<b>ELL Vocabulary Skills</b>  ELL Social Studies – <i>Building Writing Skills in Social Studies</i>  ELL English – <i>Introduction to Writing Skills in Content Areas</i>  ELL Science – <i>Introduction to Science 10 Concepts (grade 10 science prep)</i>  ELL Acting 11 (if needed) <i>regular math and electives</i>	<b>ELL Writing Support (grade 8, 9, and 10)</b>  <b>ELL Writing 8/9</b> <i>English Language Development – writing, reading and communication skills for grade 8 and 9.</i>  <b>ELL Writing 10</b> <i>English language Development – reading, writing, and communication focusing on English 10 curriculum, regular Social Studies, regular English, regular math, regular science, and electives</i>	<b>ELL Writing Support (grade 11/12 students)</b>  ELL Writing 11 <i>regular Social Studies regular English regular math regular science and electives</i>	<b>(grade 12 ELL students)</b>  This course covers the curricula of English 11 in the first half of the year and English 12 in the second half of the year. Students will see this teacher every day, as two blocks of time will be allotted. Students must write the English 11 exam and pass English 11 in order to continue in English 12. Emphasis is on comprehension of literature and essay writing in order to prepare for the English 12 exam.

Our **English Language Learning** classes are designed to ensure our students have the support they need to become more proficient in reading, writing and communicating in English; and become more successful in each provincial exam course. In September, we test all of our ELL students to make sure they are placed in the right support level. We look at comprehension skills, vocabulary, and writing skills. At that time, a student may test out of the ELL program based on their mark for the combined ELL tests given. Each student is assessed on their individual effort.

At Walnut Grove Secondary, students are not required to take all of the ELL courses listed above. Each student is assessed independently through the ELL testing procedure as well as on their performance in their regular classes. The ELL program is a placement program; students will be enrolled in the classes that best support his or her educational needs.

The **ELL Drama and ELL Acting 11** courses prepare English Language Learners for oral presentations. Speaking English takes practice and many ELL students are nervous about speaking in public because of errors in pronunciation. These Drama classes address pronunciation and will provide much needed opportunities to practice speaking in a safe and comfortable environment.

The **ELL Science – Introduction to Science 10 Concepts** (Grade 10 Science preparation) caters to Grade 10 students who are not yet ready for the heavy load of Science 10, but will take it in their next year or in Summer School. The teacher may decide the student is strong enough to take the Science 10 Provincial Exam.

The **ELL Writing 8/9** program will support grade 8 and 9 students in reading comprehension and strengthening their writing skills.

The **ELL Writing 10** course will support grade 10 students in reading comprehension, synthesis, and skills needed to successfully complete English 10. These students may be given Level 4 credit if they have taken ELL Writing 8/9 already.

**ELL Writing 11** provides additional support to grade 11 and 12 students who still need to strengthen their writing skills in order to improve their marks in English. This course would help those students destined for University, but still continue to struggle in writing and reading skills.

### **Math**

Students are placed according to their grade level and their prior math class assessments. If a student wishes to move ahead in math that is a discussion they must have with their math teacher and the International Student Coordinator after an appropriate time has passed where the math teacher has had time to assess the student. After grade 10 math, students can decide to enter the Pre-calculus stream.

### **Social Studies**

Students must complete a Social Studies 11 or Social Studies 12 course in order to meet BC graduation requirements.

### **Electives**

Students in Walnut Grove choose from a wide variety of electives based on their personal interests and their future career choices. Information about all of the options is available in our Course Planning Guide and on our website.

### **Language Labs and Tutorial**

All ELL students are required to attend regular tutorials, either with their classroom teacher or with an ELL instructor. Students who require more assistance in English language learning will be instructed to attend specific tutorials focusing on their individual needs.

## **DESCRIPTIONS OF ELL COURSES**

### **Building Communication Skills**

#### **YESFL0A BASIC COMMUNICATION SKILLS (ENG) (4 credits)**

This four-credit course is designed to introduce ELL students to the four main English language skills of reading, writing, listening and speaking. It also encourages the viewing and representation of materials. The course focuses on developing strategies needed to read, write and extract information successfully in English.

#### **YESFL0B STRATEGIES FOR ACADEMIC SUCCESS (SS) (4 credits)**

This four-credit course is designed for the student who has an imbalance between oral and written skills and requires support for academic success. It is designed to extend a student's ability to use various strategies independently in order to meet the learning outcomes and be successful in content-based courses such as English, Social Studies, Science and/or Mathematics.

#### **MSC--09E1 INTRODUCTION TO BASIC SCIENCE CONCEPTS**

This non-credit course prepares students for regular Science classes. The focus is on developing reading, writing, listening, and speaking skills related to science content. Topics such as biology, chemistry and physics will be adapted from the regular Grades 8 and 9 Science courses.

MDRG-10E                      ELL DRAMA 10 (4 credits)

This four-credit course is designed to give ELL students the chance to work on their speaking and listening skills in a non-threatening environment. It counts as an Arts Education or ADST course required for graduation.

**Building Vocabulary Skills in Content Areas**

YESFL0C                      INTRODUCTION TO ACADEMIC LANGUAGE IN SOCIAL STUDIES (4 credits)

This four-credit course is designed for the student who is able to integrate more fully into academic classes but needs support and additional time to complete assignments. It is designed to allow the ELL student to expand and gain competence and confidence in using English language skills in order to be successful in academic content areas focusing on Social Studies.

YESFL0D                      INTRODUCTION TO WRITING IN CONTENT AREAS (4 credits)

This four-credit course is designed to enable ELL students to extend the four main English language skills of listening, speaking, reading and writing. The focus is on expanding the strategies needed to read, research, and write successfully in English for academic success.

MSC--10E1                      INTRODUCTION TO SCIENCE 10 CONCEPTS

This non-credit course prepares students for regular Science 10 classes. The focus is on developing reading, writing, listening, and speaking skills related to science content. Topics such as biology, chemistry and physics will be adapted from the regular Grade 10 Science courses. At the end of the course, the teacher may decide the student is strong enough to grant Science 10 credit.

MDRG-10E                      ELL DRAMA 10 or MTPA-11I- ACTING 11 (4 credits)

This four-credit course is designed to give ELL students the chance to work on their speaking and listening skills in a non-threatening environment. It counts as the Arts Education or ADST course required for graduation.

**Developing Skills in Academic Writing**

YESFL1A                      ELL WRITING 8/9 (no credit) and ELL WRITING 10 (4 credits)

This four-credit course is designed for ELL students who are enrolled in regular academic courses. It is designed to improve student's knowledge base and increase comprehension and writing skills needed to become fluent in the English language. Emphasis will be on the use of study strategies, building on key academic concepts, and increasing the foundation of reading and writing skills.

**Strengthening Academic Writing**

YESFL1B                      ELL WRITING 11 (4 credits)

This four-credit course emphasizes writing strategies and theory that will increase student understanding of the writing process thereby facilitating success in the graduation program. The student will be guided through a series of steps to produce well-organized and adequately developed paragraphs and essays.

MEN--11-A                      ENGLISH 11 with MEN--12-A ENGLISH 12 (8 credits)

This eight-credit covers the curricula of English 11 in the first half of the year and English 12 in the second half of the year. Students will take this course in two blocks. Students must write the English 11 exam and pass English 11 in order to continue in English 12. Emphasis is on comprehension of literature and essay writing to prepare students for the English 12 exam.

## SECOND LANGUAGE CREDIT INFORMATION

A number of Canadian post-secondary institutions require students to have completed a 'second language' to the Grade 11 level. Students need to check the specific requirements of the post-secondary institutions they are considering attending. For international students, there are several options to consider and discuss with the International Coordinator or school counsellor.

### **a) Language Equivalency**

Students can receive credit for language study if their first language is one of **French, German, Japanese, Mandarin, Punjabi, or Spanish**.

Students who have completed studies in their home countries to a certain grade can receive language credit in Canada when they show their students' Grade 7-9 report cards. Students will receive course credits with marks (%) that count towards the 80 credits required for BC graduation. If a percentage cannot be determined, the student's transcript will show TS (Transfer Standing). These courses can be used as one of the four recognized academic courses for SFU or UBC admissions.

<b>Grade in Home Country</b>	<b>Language Credit in Canada</b>	<b>Example</b>	<b>Sample Mark</b>
Gr. 7 completed	Gr. 10 Language Credit (4 credits)	Mandarin 10	85%
Gr. 8 completed	Gr. 11 Language Credit (4 credits)	Mandarin 11	82%
Gr. 9 completed	Gr. 12 Language Credit (4 credits)	Mandarin 12	84%

It is also possible to get language equivalency credit for **American Sign Language, Arabic, Italian, Korean and Russian**. However, these courses cannot be used as one of the top four recognized academic courses for SFU or UBC admissions.

### **b) External Language Credit**

Students who do not meet the criteria for Language Equivalency will be considered for "external language credit". This is for students whose primary language of instruction in their home country is not in the main list of languages, e.g. **Cantonese**. The grade completed in the home country determines the language credit. The student's transcript will show TS (Transfer Standing), not a mark. The External Language Credits count towards the 80 credits required for BC graduation, but cannot be used to help the overall percentage required for university entrance.

<b>Grade in Home Country</b>	<b>Language Credit in Canada</b>	<b>Example</b>	<b>Sample Mark</b>
Gr. 7 completed	Gr. 10 Language Credit (4 credits)	UXLC 10A	TS
Gr. 8 completed	Gr. 11 Language Credit (4 credits)	UXLC 11A	TS
Gr. 9 completed	Gr. 12 Language Credit (4 credits)	UXLC 12A	TS

### **c) Language Challenge Exam**

Students who came to Canada before completing Grade 9 and who cannot claim Grade 12 Language Credit are encouraged to consider taking the Language Challenge Exam.

Delta School District offers students the opportunity to write Language Challenge Exams. Information and application forms are available online in September of each school year. Applications need to be turned in to the WGSS Counselling Centre in early October. The test is written in January in Delta, BC. Students should be in grade 11 or 12 when they write the exam. Any student considering the exam should discuss their options with a counsellor or international coordinator and read the "Frequently Asked Questions" section at the Delta website: <http://web.deltasd.bc.ca/schools/secondary/challenge-exams>

**Please Note:**

Challenge Exams for Korean 11 & 12 were being offered this past year. Korean 12 is not a recognized academic course. It meets the language requirement for both SFU and UBC but it cannot be used as one of the four recognized academic courses for SFU or UBC admissions.

**d) Studying an Additional Language**

Students who arrive in Canada before or during Grade 7 or who wish to study an additional language should consider gaining language credits by studying French, Japanese or Spanish at WGSS.

**UNIVERSITY ENTRANCE INFORMATION**

Each post-secondary institution has General Entrance Requirements and English Language Entrance Requirements that are specific to their institution. General information can be found on the grid on page 21. Consult the International Student Coordinator or a counsellor with questions about specific institutions.

**English Entrance Requirements - UBC**

Students must meet one of these requirements:

1. Complete three or more consecutive years of full-time education in English within Canada immediately prior to attending UBC.
2. Achieve a grade of 70% or better on the provincial examination portion of BC English 12 or English Literature 12 or the equivalent.
3. Achieve the required scores in listening, reading, speaking, and writing on one of the tests of English language proficiency.

IELTS	International English Language Testing System (Academic)	6.5 with no part less than 6.0
TOEFL	Internet-based test	Overall score: 90 Reading & Listening: 22 Writing & Speaking: 21
TOEFL	Paper-based test with the TWE (Test of Written English)	55 each for Reading, Listening, and Writing (4.0 on TWE)

**English Entrance Requirements - SFU**

Students must meet one of these requirements:

1. Completion of the last three years of full-time secondary education in English in Canada or another country where the principal language of instruction is English. A minimum blended grade of 60% in English 12 is required. A final, blended mark of 75% will permit enrollment in a writing-intensive (W) course.
2. Achieve the required scores in listening, reading, speaking, and writing on one of the tests of English language proficiency.

IELTS	International English Language Testing System (Academic)	6.5 with no part less than 6.0
TOEFL	Internet-based test	Overall score: 88 Reading & Listening: 20 Writing & Speaking: 20

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# STUDENT SUPPORT SERVICES

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The Department of Student Support Services offers a wide variety of programs for students with learning difficulties and/or special needs. Placement within programs is dependent on referral, assessment and/or recommendation. A flexible approach is taken to individual programming and support. Levels of support include as-needed support by a case manager but no support block, access to Resource room support for tests or assignments on a drop-in basis, membership in a specific program which includes built-in support or a scheduled support block as part of the timetable.

Programs available through the Department include:

- Foundations
- Gator Aid
- Connections
- Explorations

## **Foundations**

Foundations support is a team-based system for designated<sup>1</sup> or LA (Learning Assistance) students, in grades 8-12 who require additional academic or socio-emotional support in order to be successful. Students in grades 8 and 9 are assigned to grade-blocked classes (Resource/STSS 8/9) with two teachers and an EA (Educational Assistant) for each class. The team includes the grade level counsellor and administrator. These classes are designed to build the foundational skills for student success of organization, executive functioning, communication, study skills and academic support. This work is maintained for the students in grades 10-12 (Learning Strategies 10-12). Their team includes a teacher and an EA in each class, and the counsellor and administrator. Students in grades 10 and 11 Learning Strategies also receive graduation credits for a successfully completed course. Contact Foundations staff for eligibility.

## **Gator Aid**

For students in grades 9-10 who require significantly adapted core academics in order to be successful. Contact the Gator Aid program administrator for eligibility.

## **Connections Program**

For students who require a full or partially modified educational program with self-contained academic courses or who require bridging courses due to a variety of academic or socio-emotional needs. Contact Connections staff for eligibility.

## **Explorations Program**

For designated students who require placement in self-contained classes specializing in individualized, functional life-skills programs with integration possibilities. Contact Explorations staff for eligibility.

An important objective of the Student Support Services Department is the inclusion of students, as far as practicable, in regular school programs. Students with special needs can graduate in the traditional manner<sup>2</sup> and will be awarded graduation credentials based on their particular program(s) of study.

As well as the above programs Department staff consults with parents, teachers, administration, counselling and various outside agencies in order to assess and evaluate individual needs. While each student with special needs is assigned a Case Manager, a team approach is commonly used to solve problems with regard to individual situations and/or changing circumstances. For inquiries and information please contact the Student Support Services Department.

<sup>1</sup>Students with an official Ministry of Education designation (LD, ASD, PD/CHI etc.) which has been confirmed by the School District.

<sup>2</sup>Students with special needs graduate in the traditional manner by either:

- meeting provincial graduation requirements and learning outcomes and graduating with a Dogwood Certificate.
- meeting the education goals stated in their Individual Education Plan (IEP) and graduating with an Evergreen School Completion Certificate.

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# OFF CAMPUS COURSES

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Off-campus courses include Distributed Learning, Night School, and Distance Education.

- Each course has a completion date.
- Students who take an off-campus course are still subject to the same course load requirements as explained on page 3 of this guide.
- Grade 12 students must complete off campus courses by mid-April in order to use these marks for admission to some post-secondary institutions. Note: UBC requires completion by February 1.
- The decision to enroll in off campus courses should be made in consultation with a WGSS counsellor
- Parents and students, who have elected to register in off-campus courses, need to verify that their final off-campus marks are sent to the Ministry of Education once the course has been completed by the course provider. This ensures receiving graduation credit for a completed off-campus course.
- Students may only be registered in a course at one institution. You may not be registered in the same course through off-campus and at Walnut Grove.
- Students must provide proof of registration in an off-campus course to the counselling department before being timetabled out of a class at Walnut Grove.

**Distributed Learning** in BC means taking a course online, which may include a paper component and where most or all of the course work is completed outside of a classroom environment. Distributed Learning is an instructional model that allows instructors and students to acquire content using technology based (on-line) instruction. Distributed Learning can be a blend of required class time and virtual class time (blended) or virtual class time exclusively. While the student gains flexibility around how, when, and where the learning occurs; they also increase their level of responsibility for their own learning and are expected to be active learners required to meet deadlines, manage time, and be self-motivated.

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## UNIVERSITY EARLY ADMISSIONS PROGRAM KWANTLEN XCEL

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Langley School District has entered into a partnership with Kwantlen Polytechnic University (Langley Campus) to provide students with the opportunity to complete one or two university courses, while finishing Grade 12. Students choose one course for the fall semester (September-December) and one for the winter semester (January-April). Courses offered in the past included: Business, Criminology, Marketing, Psychology, Philosophy, Political Science and Sociology.

All courses offered at Kwantlen can be used to complete the first year of a university degree or diploma. Students will receive dual credit (high school credit + post-secondary credit for all successfully completed Kwantlen Polytechnic University courses).

Participating students will receive additional support to access university for the first time and will be guided in the navigation of all aspects of their post-secondary experience.

### Application

Students must:

- be in their final year of high school (e.g. Grade 12)
- be eligible for admissions to Kwantlen Polytechnic University
- be a high school student
- be a Canadian citizen or permanent resident
- have a superior academic record (B standing in grade 11 English, Social Studies and either Math or Science)
- have demonstrated motivation and engagement in the learning environment (references from two of an administrator, counsellor and teacher)

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## Financial Consideration

Students accepted into the program:

- will pay the cost of their textbooks (\$100.00 per course)
- SD35 will pay the cost of tuition per course (\$380.00 x 2)
- SD35 will pay the cost of University Student Fees (not to include bus pass or health card)
- KPU will waive the registration fee (\$40.00)

For additional information, please speak to Ms. Kifiak or Mr. Trattle. Further information can be found at <https://connect.kpu.ca/dualcredit/langley-xcel.ezc> and <http://wgssc Career Centre.weebly.com/xcel.html>

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# GETTING EXPERIENCE

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“Do you have any experience?” they ask at places of employment and post-secondary training institutes. Fortunately, there are several opportunities for Walnut Grove students to get valuable experience while you are in secondary school. Here are some examples:

## VOLUNTEER OPPORTUNITIES

By volunteering your time at various community sites, you gain valuable experience and meet valuable contacts that can help you with your transition to paid employment. Many post-secondary programs express preference for people with some experience related to the training. All volunteer opportunities are coordinated by our Career Advisor. They are listed under the “Volunteer Opportunities” tab on the Career Centre website: [www.wgssc Career Centre.weebly.com/current-volunteer-opportunities.html](http://www.wgssc Career Centre.weebly.com/current-volunteer-opportunities.html). Opportunities are also posted on the Volunteer board across from room 106.

## SCHOOL ACTIVITIES

Valuable career experience can be obtained by getting involved in school clubs, teams, and other services. Employers are impressed with young adults who have several examples of involvement in school activities. Listed below are examples of school activities for you to get involved in:

Sports Teams and Events

Humanitarian Club

Grad Council

Student Council

Robotics Club

Debate Club

Environmental Club/Green Team

Me 2 We

Mountain Bike Club

Kindlers Society

Toastmasters International

Chess Club

Ultimate Frisbee

Gator Nation News (GNN)

Math Challengers/Mathletics Club

Gator Leadership Club (GLC)

Library Advisory Council

Leo Club

Drumline

Young Entrepreneurs

Pride Club

Lunch Buddies

W.Y.N.S.

CGMA Club

E-sports Club

Entertainment & Production Club

Non-electronic Activities Club

Relay for Life

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# SCHOLARSHIPS

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**District Scholarship Website:** [www.sd35.bc.ca/students-parents/scholarship-information](http://www.sd35.bc.ca/students-parents/scholarship-information)

The SD35 Scholarship Website has a searchable database of scholarships available for Grade 12 students to consider applying for, as well as a Scholarship Handbook, sample comprehensive resumé, spreadsheet, and scholarship forms.

**Provincial Awards Program – Five scholarship opportunities** (see descriptions below) [www.bced.gov.bc.ca/awards](http://www.bced.gov.bc.ca/awards)

The Provincial Awards Program is intended to award student achievement, motivate high school students to graduate, and encourage students to pursue further education through post-secondary institutions and job-training programs. To be eligible for Provincial and District Scholarships a student must be enrolled in Grade 12 in a program leading to graduation in June, have a Social Insurance Number, and be a Canadian Citizen or Permanent Resident.

55 **BC Excellence Scholarships** are available to recognize well-rounded BC graduates. Winners will have demonstrated community service, both inside and outside their schools, and shown aptitude and commitment to their chosen career paths. Winners receive a \$5000 scholarship voucher to use for post-secondary tuition. The WGSS Scholarship Committee may nominate one student to be considered for this award. Additional information will be available through the Grad Newsletter.

The **BC Achievement Scholarship** is determined by the Ministry of Education based on students' achievement in grades 10, 11, and 12 courses which satisfy graduation requirements (including elective courses). A cumulative average percentage will be calculated and form the basis for awarding the BC Achievement Scholarship. Winners receive a \$1250 voucher to be used towards post-secondary studies within five years from September 30 of a student's graduation year.

The Ministry of Education **District Authority Award** recognizes students for excellence in one of the following chosen areas of interest or strength:

- **Indigenous Languages & Culture** (commitment to language revitalization of indigenous culture in school or the community)
- **Fine Arts** (e.g. three courses in and/or out of school) in one of Visual Arts, Dance, Drama, or Music
- **Applied Skills** (e.g. three courses in one of Business Ed, Technology Ed, Computers, Home Economics)
- **Physical Activity** (e.g. three courses in Physical Ed or Provincial/National participation in Athletics, Dance or Gymnastics)
- **International Language** (studied three or more languages)
- **Community Service** (local, global, and cultural)
- **Technical and Trades Training** (e.g. Carpentry, Automotive, Mechanics, Cook Training - not including ACE-IT or Secondary School Apprenticeship)

A District application form is available on the WGSS Counselling and Careers website. Generally, approximately 33 WGSS students win this award and receive a \$1250 scholarship voucher to use towards their post-secondary tuition.

**The Pathway to Teacher Education Scholarship (PTES)** is awarded to 20 outstanding high school graduates who have demonstrated a commitment and aptitude for a career path in K-12 teaching. Each recipient will receive a \$5000 scholarship voucher to use towards tuition in their teaching program at a designated BC post-secondary institution. Students submit their application directly to the Ministry of Education on or before the deadline of February 15. The voucher must be redeemed within seven years from September 30 of a student's graduation year.

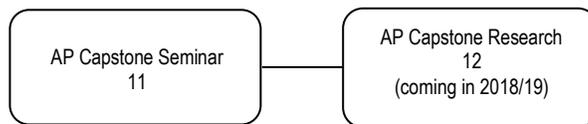
The **Secondary School Apprenticeship (SSA)** provides skill development through practical, hands-on work experience. Students enrolled in these courses go to work and attend high school at the same time while being registered with the Industry Training Authority as Youth Apprentices. Some students who successfully complete the 16 credits may qualify for the SSA Scholarship – a \$1000 award is available to students who report at least 900 hours to the ITA by December 31 of the year the student turns 19, maintained a C+ average in their Grade 12 courses, and successfully completed all four SSA courses.

**WGSS Scholarship Information:** <http://wgsscounselling.weebly.com/scholarships.html>

At this site you will find scholarship PowerPoint presentations, the WGSS Scholarship application form, *Gator News for Grads Newsletter* and [@GatorFutures](#)

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# AP CAPSTONE



## **AP CAPSTONE SEMINAR 11**

Prerequisite: completion of English 10, Science 10, and Social Studies 10

This course is the first half of the AP Capstone program that introduces students who intend to go to university to the skills they will need to succeed there: research, writing, argumentation, communication and collaboration. The AP Capstone program is made up of AP Capstone Seminar 11 and AP Capstone Research 12.

Students who earn an AP grade of 3 or higher in AP Capstone Seminar 11, AP Capstone Research 12 and four other AP exams will receive an AP Capstone Diploma; students who earn a grade of 3 or high in AP Capstone Seminar 11 and AP Capstone Research 12 will receive an AP Capstone Certificate.

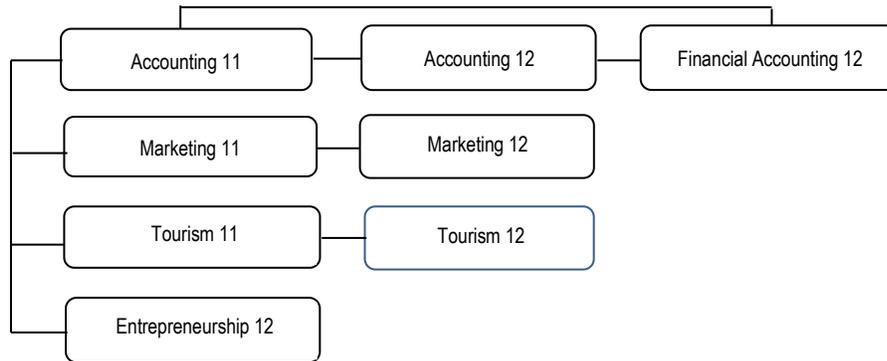
The goal of AP Capstone Seminar 11 is to offer students opportunities to explore interdisciplinary themes, to evaluate different points of view and to develop a personal perspective on complex, interdisciplinary issues through university level analysis and inquiry projects of their choosing. Students will learn to analyze written works such as academic articles, research studies, and texts as well works such as speeches, performances and works of art.

Assessment in AP Capstone Seminar 11 includes three summative pieces: two presentations tasks (a team presentation and an individual research essay) and a final exam in May (fee \$135). The skills required in these summative assessments will be practiced in smaller formative tasks throughout the year.

After taking AP Capstone Seminar 11, students are encouraged to continue to develop their academic research and writing skills in AP Capstone Research 12.

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# BUSINESS EDUCATION DEPARTMENT



## **ACCOUNTING 11**

Prerequisite: in grade 10, 11, or 12

This course is recommended for students interested in gaining skills in basic accounting practices with the view to pursuing a career in business. Upon successful completion of this course, Walnut Grove students will receive credit for two courses at Spratt Shaw College, a \$1000 cash value, PLUS an additional \$2000 scholarship upon completion of the chosen Spratt Shaw diploma program.

## **ACCOUNTING 12**

Prerequisite: Accounting 11

Students apply the basic accounting practices learned in Accounting 11 to detailed corporate accounting procedures using *Simply Accounting*. Upon successful completion of the course students will be eligible for Simply Accounting Level 1 Certification, credit for two courses at Spratt Shaw College, a \$1000 cash value, PLUS an additional \$2000 scholarship upon completion of the chosen Spratt Shaw diploma program.

## **FINANCIAL ACCOUNTING 12**

Prerequisite: Math 11 and/or Accounting 11

This course is intended for students who wish to pursue post-secondary studies in accounting, finance, business management, or commerce. Advanced concepts of financial accounting encourage students to develop analytical, decision-making, and communication skills. These skills will also be useful to students intending to pursue other professions.

## **ENTREPRENEURSHIP 12**

Prerequisite: in grade 10, 11 or 12

With the support of local business owners, students will plan, organize and manage all aspects of a school-based and personal business venture. All students will participate in the annual **Trade Show** and **Gators Den** where students demonstrate their skills and showcase the businesses they have developed to compete for cash prizes awarded by the local bank managers.

## **TOURISM 11**

Prerequisite: in grade 10, 11, or 12

Tourism is the fastest growing industry in BC and world-wide! Many students will find themselves employed in the tourism business sectors. Be prepared for that first job! This course provides students with knowledge and essential skills to be successful in the travel and tourism industry. Skills learned are transferable to other chosen career paths and occupations. Topics include an introduction to tourism, tourism business sectors, tourism essential employability skills, customer service skills, study of the food & beverage, airline and hotel industry, tour packages, travel destinations and First Nations.

## **TOURISM 12**

Prerequisite: Tourism 11 or in Grade 12

Are you interested in the number one industry world-wide? If so, this course is for you! Topics to be covered include: travel & tourism business concepts, travel counseling, customer service, world travel destinations, events and conferences, career and education opportunities. Students are offered industry recognized certification programs such as Foodsafe Level 1, Worldhost, Emerit training and CATT (Canadian Academy of Travel and Tourism) certification levels. Opportunities are also created for students to make community connections with local tourism companies and planned tourism events.

## **MARKETING 11**

Prerequisite: in Grade 10, 11, or 12

This course is designed for students who wish to explore the exciting world of marketing as it applies to the local retail market. Working with a local business, students will learn and apply basic marketing concepts: product development and promotion, store design, pricing to meet consumer demand, market research and building customer loyalty. Each student will develop on behalf of their retail partner a marketing plan to present at the annual **Trade Show** and **Gators Den** competing for cash prizes. All students will develop a personal brand to be able to successfully market themselves in a competitive work environment.

## **MARKETING 12**

Prerequisite: Marketing 11 or in Grade 12

This project-based course focuses on the exciting world of global marketing. Topics include: key marketing concepts and strategies, E-commerce, international marketing, advertising campaigns, marketing plans and market research for real companies. While conducting business case studies, students learn about the world of business and create prospective plans for their own business ideas. Students are encouraged to use computer, business and technical skills to produce work of a high business standard.

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# CAREER LIFE EDUCATION DEPARTMENT

## CAREER EDUCATION 9

In Grades 6–9, students explore concepts such as identity, leadership, personal planning, and transferable skills. As students build on the foundation developed from their experiences in K–5, they begin to explore in greater depth their skills and passions, and begin to determine possible routes to their goals.

### **Big ideas:**

- 1) Reflecting on our preferences and skills helps us identify the steps we need to take to achieve our career goals.
- 2) The value of work in our lives, communities, and society can be viewed from diverse perspectives.
- 3) Achieving our learning goals requires effort and perseverance.
- 4) Adapting to economic and labour market changes requires flexibility.
- 5) Our career paths reflect the personal, community, and educational choices we make.

## CAREER LIFE EDUCATION

Students may choose to take this course in either grade 10 or 11.

Career Life Education (CLE) is a course that recognizes three major phases of career development—Foundation and Awareness, Exploration, and Experience and Application.

As students move through Grades 10–12, they further refine their understanding of the links between personal development and their career decisions. They consider regional and global trends to reflect on career possibilities, refine their understanding of safety requirements associated with occupational areas and related technologies, and further develop and refine their understanding of career possibilities through planning, practice, and application of competencies and knowledge.

### **Big Ideas**

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

## GRADUATION TRANSITIONS 12

To be taken in Grade 12

In grade 12 Graduation Transitions is a required four credit program that all students must complete in order to graduate. It is introduced during the Grade 10 year in Planning, extends through Grade 11, and culminates in an exit presentation in April. Students meet with their Graduation Transitions teachers on a once-a-week scheduled basis for one semester until their presentation is completed. Graduation Transitions is intended to prepare students for successful transition to life after high school. Students will be required to demonstrate they have the knowledge, skills and attitudes in the areas of personal health, community connections, and career and life. They will be required to collect evidence of their achievement in each of these three areas and reflect upon their learning. To successfully meet the BC high school graduation requirements, all students must demonstrate that they have met the following requirements: • Personal Health - maintain a personal health plan and participate in at least 130 hours of moderate, vigorous physical activity, in addition to PE10 • Community Connections - participate in at least 30 hours of work experience and/or community service and describe what was learned • Career and Life Goals - complete a transition plan and present significant accomplishments.

## **WORK EXPERIENCE**

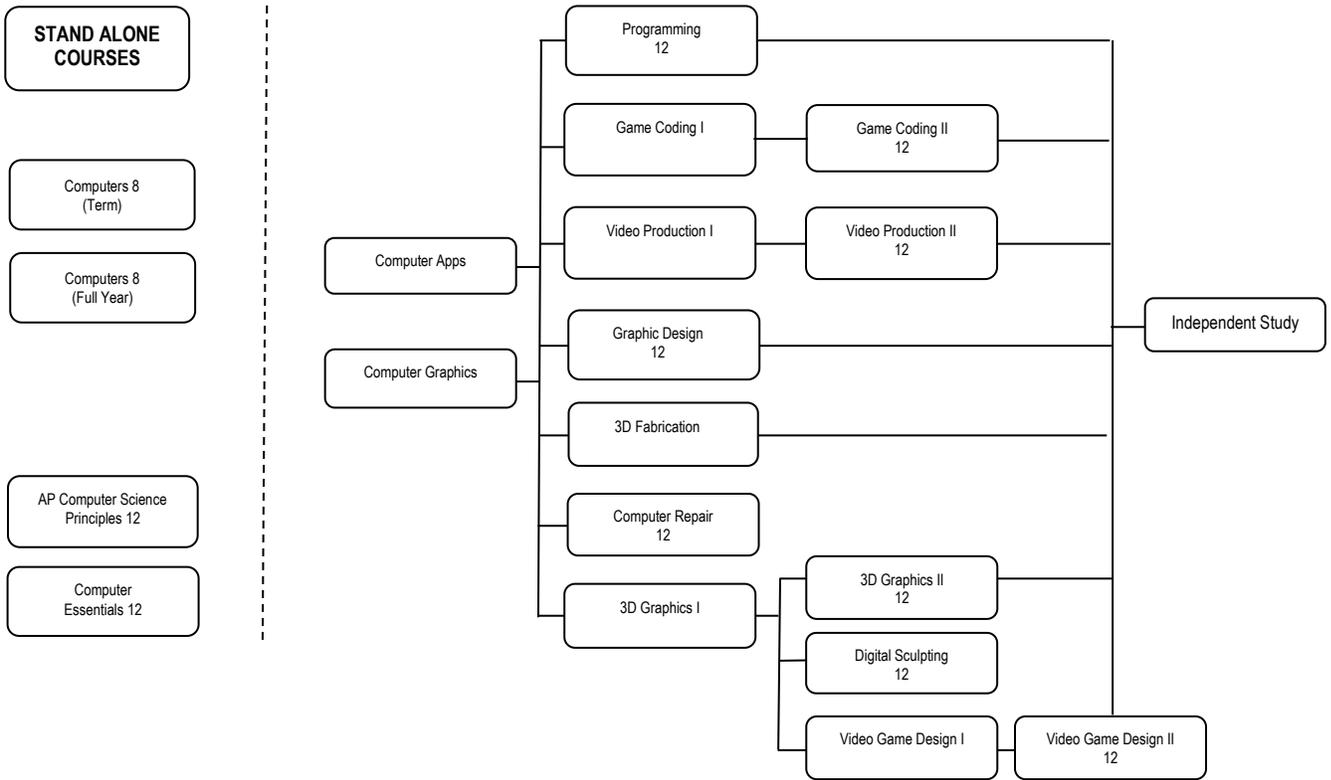
Work Experience 12A and 12B are intended to provide students in grade 11 or 12 with the knowledge and skills to be successful in the world of work and the opportunity to explore alternative career pathways. This program is designed to link classroom knowledge and activities to knowledge, skills and attitudes that are required in the workplace. Work Experience 12 generates four credits based on every 100 hours of work experience. Students must have completed Planning 10 in order to be considered for Work Experience. Students can apply by completing the "Career WEX" Application Form. Work Experience is unpaid and students must complete all the necessary forms and legal documents before they can begin counting hours. Students may also use WEX hours to complete the 30 hour 'Community Connections' requirement for Graduation Transitions 12.

Benefits of Work Experience:

- Receive four Ministry authorized credits for every 100 hours
- Explore career choices
- Gain valuable experience with workplace situations and equipment
- Increase self-confidence and self-awareness
- Potentially lead to a Secondary School Apprenticeship (SSA) in trades technical areas
- Possibility of paid work after placement
- Gather references and contacts to assist with future job searches

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# COMPUTER STUDIES DEPARTMENT



**Entry to computer courses is not determined by your grade level, it is determined by pre-requisites.** Students who want to take a course without the required prerequisite must have the permission of the department. For more information on *stand-alone* courses, see individual course description.

## **COMPUTER APPS**

*Counts as an ADST or Arts Education elective*

Students expand their skills in a wide variety of computer applications including: game programming, 3D animation, website creation, photo editing and video. Students must complete this course (or Graphics) to advance to senior computer classes.

## **COMPUTER GRAPHICS**

*Counts as an ADST or Arts Education elective*

Using the tools of professional designers, students will create and edit 2-D and 3-D graphics. Students will focus on three main areas: video production, 3D modeling/printing and graphic design. Students must complete this course (or Computer Apps) to advance to senior computer classes.

## **3D GRAPHICS I**

**\*\* Formerly Animation 11\*\***

Prerequisite: Computer Apps or Computer Graphics

Students are introduced to the key aspects of 3D Graphics using computers and industry standard software. Students will focus on three main areas in the animation field – 3D modeling and printing, high-resolution Digital Sculpting and Video Game Design.

### **3D GRAPHICS II 12**

*\*\* Formerly Animation 12\*\**

Prerequisite: 3D Graphics I

3D Graphics II builds on the knowledge learned in 3D Graphics I. Students are encouraged to choose areas of interest to focus their studies on. Topics include: advanced modeling and texturing, facial animation, automobile modeling and 3D sculpting.

### **3D FABRICATION**

Prerequisite: Computer Graphics (preferred) or Computer Apps with permission of instructor. Knowledge of 3D modeling is important

This course allows students to design a variety of objects with the computers and then using the latest fabrication tools (3D printers, CNC machines, vinyl cutters, laser engravers & large format printing) they can actually create that object. Objects can be made out of a variety of materials including wood, plastic and metal and include a custom designed skateboard.

### **AP COMPUTER SCIENCE PRINCIPLES 12**

Prerequisite: Grade 11 and 12 students, Grade 10 students with strong math skills

Students will explore the challenges that arise from the need to represent numbers, images, and text as digital information that computers can utilize. They will also explore how internet protocols and cryptography allow transfer of the information across the internet. Students will also learn about "big data" and the ethical implications. Fundamental programming constructs will be taught using JavaScript to develop event driven apps. Students will demonstrate their learning through AP Performance Tasks and have the option to write the AP exam in May (fee \$135); depending on the exam score, they may have the option to receive credit for a first year university course. All AP courses are academically approved grade 12 courses for post-secondary admissions.

### **COMPUTER ESSENTIALS 12**

Prerequisite: Grade 11 and 12 students

Computers skills are a requirement for almost any job. This course provides students with those essential skills. Students will become proficient in Microsoft Word, Excel, and PowerPoint. In addition, students will learn the fundamentals of the Internet including how to create a website, online forms and surveys. Students will also learn to manipulate and create images in Photoshop and create presentation documents using InDesign.

### **COMPUTER REPAIR 12**

Prerequisite: Computer Apps or Computer Graphics or permission of instructor.

Computer Repair 12 provides technical training on hardware and operating systems. Students will combine theory and hands-on experience in constructing, troubleshooting and repairing computers. Other areas of focus: small networks, emerging technologies and high-tech living. Upon successful completion of the course students should have sufficient knowledge to apply for the A+ Certification Test for computer technicians.

### **DIGITAL SCULPTING 12**

Prerequisite: 3D Graphics I (or permission of instructor)

Digital sculpting is a new technology that can produce amazing results in a relatively small time. Digital Sculpting is a senior level course that will enable students to create high-resolution models similar to those in next-gen video games. Study will be focused on using 3D skills to create a base mesh and then move on to Mudbox to "digitally sculpt" that mesh into a photorealistic model. Advanced modeling and texturing is also studied.

### **GRAPHIC DESIGN 12**

Prerequisite: Graphics or Computer Apps

Graphic Design 12 is a course that allows student creativity to flourish. Using software like Adobe Photoshop & CorelDraw, students will learn principals of modern digital design as it relates to logo creation, t-shirt design, websites, brochures, advertising, icon development, app user interfaces, photo editing, product packaging and more. In addition, students will get the opportunity to use the school's laser engraver, vinyl cutter, and large format printer to design and produce some amazing creations.

### **GAME CODING I**

*\*\* Formerly Game Creation 11\*\**

Prerequisite: Computer Apps or Computer Graphics (or permission of instructor)

You will learn how to code by building games using both Python and C#. With Python, students will create basic text and ASCII games to develop a basic understanding of coding. Students will then learn to re-create classic arcade games such as Pong, BreakOut and Pac-Man using C# in the Unity Game Engine.

## **GAME CODING II 12**

*\*\* Formerly Game Creation 11\*\**

Prerequisite: Game Coding I (or permission of instructor)

Building on Game Creation 11, this course focuses on creating more elaborate games using the Unity game engine. Students will further their understanding of the Unity game engine by learning how to program in C#. Students will be given the opportunity to work on developing their own games as well.

## **PROGRAMMING 12**

Prerequisite: Computer Apps or interest in pursuing computer science

This course focuses on the more technical aspects of programming. Students will develop a basic knowledge of programming by using Python to create various games and applications. Students will also explore programming of Arduino in a C based language and how to create small electronics projects based around the Arduino.

## **VIDEO GAME DESIGN I**

Prerequisite: 3D Graphics I or Game Coding I

Video Game Design builds on the knowledge learned in Animation 11 and allows students to delve further into a new, very specific area of the animation field. Using the Unreal Editor, students will learn how to design and create their own playable maps.

## **VIDEO GAME DESIGN II 12**

Prerequisite: Video Game Design I

Students build on the skills learned in VGD 11 and take design to the next level. Different styles of maps are explored and the maps that are created are much more complex. Advanced topics include special effects, Kismet scripting, Matinee programming and static mesh creation.

## **VIDEO PRODUCTION I**

Prerequisite: Computer Apps or Computer Graphics or permission of instructor

This course will introduce students to the different components involved in the production of commercial videography including idea development, scriptwriting, production scheduling, camera techniques and video editing. Using industry standard software and supplied video cameras, students will have the opportunity to explore visual effects & motion graphics and produce commercials, music videos, documentaries, and short films.

## **VIDEO PRODUCTION II 12**

Prerequisite: Video Production I

This course is project oriented, extending from the concepts learned in Video Production 11. Students refine, advance, and expand skills with a focus on visual effects, film contests, and further development of video production interest.

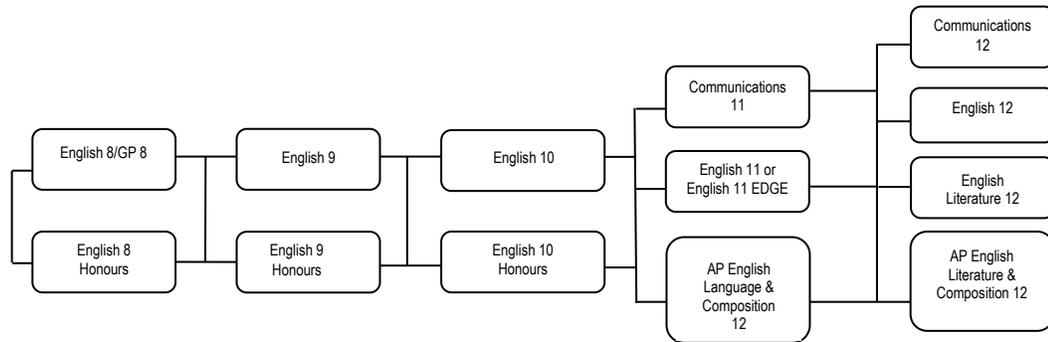
## **INDEPENDENT STUDY**

Prerequisite: Grade 12 Computer Course and instructor permission

Students who wish to continue their learning in a specialty computer field beyond the Grade 12 course may take a year of IDS. IDS options can include: Video Production, Graphic Design, Web Design, Programming, or Animation. Instructor permission must be obtained prior to registering for this course.

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# ENGLISH DEPARTMENT



## **ENGLISH 9**

Prerequisite: English 8/8H or Humanities 8

Students will study language structure, composition, and literature. The emphasis is on the writing process, on the analysis of narrative, expository and descriptive styles of writing, and on the appreciation of various literary forms.

## **ENGLISH 9 HONOURS**

Prerequisite: English 8/8H or Humanities 8 and department approval

Honours English is for those students who want the challenge of work that transcends the regular English curriculum. In Honours, students are required to do a higher level of reading, writing, and thinking, going beyond basic comprehension skills to an attempt at analysis and synthesis. Students should have the ability and the desire to work independently and in small groups on self-generated, self-directed projects. It is recommended that students who elect the Honours course have an 84% or better standing in the previous year. In the event there are too many applicants for this course, **all** applicants will be required to complete a writing assessment in the spring. Students will be notified of the date and time through their English classes.

## **ENGLISH 10**

Prerequisite: English 9/9H or Humanities 9

Students will develop proficiency in thinking, reading, writing, speaking, and listening. The emphasis is on the exploration of a variety of literary genres such as drama, poetry, the novel, and the short story.

## **ENGLISH 10 HONOURS**

Prerequisite: English 9/9H or Humanities 9 and department approval

Honours English is for those students who want the challenge of work that transcends the regular English curriculum. In Honours, students are required to do a higher level of reading, writing, and thinking, going beyond basic comprehension skills to an attempt at analysis and synthesis. Students should have the ability and the desire to work independently and in small groups on self-generated, self-directed projects. It is recommended that students who elect the Honours course have an 84% or better standing in the previous year. In the event that there are too many applicants for this course, **all** applicants will be required to complete a writing assessment in the spring. Students will be notified of the date and time through their English classes.

## **COMMUNICATIONS 11**

Prerequisite: English 10 and teacher recommendation

Communications 11 is a course designed for students who in the past have experienced difficulty in understanding literature and in expressing themselves clearly. Communications 11 focuses on basic English fundamentals. Communications 11 is not recognized for entry to UBC, UVIC, SFU, or the university transfer programs at the colleges.

## **ENGLISH 11**

Prerequisite: English 10 or English 10 Honours

Students will have the opportunity to read and appreciate fine literature and to learn what makes it great. This course helps students develop their ability to express themselves effectively in writing and speaking and to think more clearly. Its literature component focuses upon modern Canadian literature and Shakespearean drama.

### **AP ENGLISH LANGUAGE AND COMPOSITION 12**

Prerequisite: English 10 or English 10 Honours and department approval

The Advanced Placement course in Language & Composition offers an alternative to regular English 11 for those students who appreciate an academic challenge and possess a sincere interest in becoming skilled writers for a variety of purposes. In their studies, students will become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. Students will have the option to write the AP Language and Composition exam in May (fee \$135). If a student scores 4 or 5 on the exam, they have the option to receive credit for a first-year university course. Students will also be prepared for the English 12 Advanced Literature and Composition class the following year. In the event there are too many applicants for this course, **all** applicants will be required to complete a writing assessment in the spring. Students will be notified of the date and time through their English classes. All AP courses are academically approved grade 12 courses for post-secondary admissions.

### **COMMUNICATIONS 12**

Prerequisite: English 11 or Communications 11, and teacher recommendation

Students who elect Communications 12 after English 11 may have experienced difficulty with the literature, language, and composition demands of the English 11 course. In Communications 12, basic written and oral expression is stressed. There is a provincial exam for this course worth 40% of the overall final grade. This is a provincially examinable course which meets graduation requirements, not post-secondary university requirements. Communications 12 is NOT recognized for entry to UBC, UVIC, SFU or the university transfer programs at the colleges.

### **ENGLISH 12**

Prerequisite: English 11 or AP English Language and Composition 12

Students will have the opportunity to develop a critical approach to literature. The course emphasizes critical analyses of a variety of forms of literature and communication, including short stories, poetry, essays, novels, and films. There is a provincial exam for this course worth 40% of the overall final grade. English 12 is required for university entrance.

### **ENGLISH LITERATURE 12**

Prerequisite: grade 11 students: English 10 or 10 Honours and department approval

Prerequisite: grade 12 students: English 11 or AP English Language and Composition 12

This course surveys the literary accomplishments of great English writers from the Anglo-Saxon age to the Victorian era. Literature 12 focuses on the authors and the works of British literature in their historical, cultural, and literary contexts, providing an opportunity for students to explore the cultural richness of our literary heritage. Please note that English Literature 12 and English Literature & Composition 12 AP are two different courses. Skills and content do not overlap. Students may take them individually, but are encouraged to enroll in both. All AP courses are academically approved grade 12 courses for post-secondary admissions.

### **AP ENGLISH LITERATURE & COMPOSITION 12**

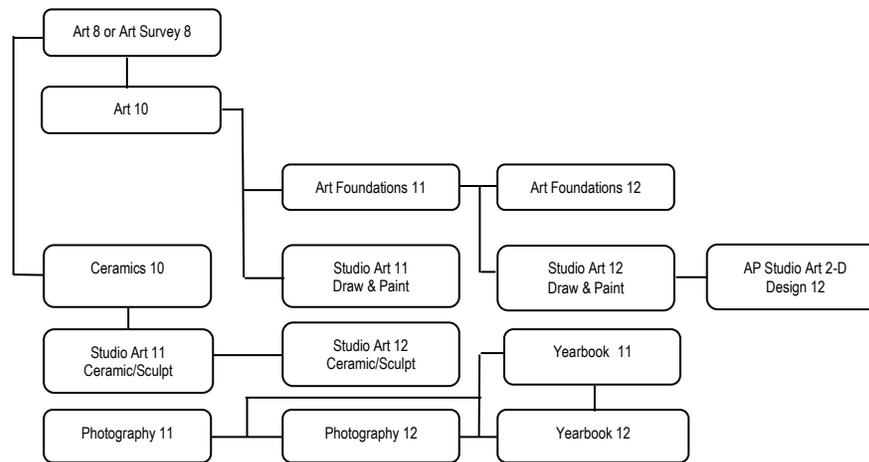
Prerequisite: English 11 or AP English Language and Composition 12 and department approval

The Advanced Placement course in Literature & Composition offers an alternative to regular English 12 for those students who appreciate an academic challenge and possess a sincere interest in literature and composition. In the course students are engaged in a careful reading of literary works. Through such study, they sharpen their awareness of language and their understanding of the writer's craft. Students are involved in both the study and practice of writing and the study of literature. Writing assignments will focus on the critical analysis of literature, and will include essays in exposition and argument. Students will have the option to write the AP Literature and Composition exam in May (fee \$135). If a student scores a 4 or 5 on the exam, they have the option to receive credit for a first-year university course. This course meets the requirement for English 12 for university entrance so students will be required to write the English 12 Provincial Exam, worth 40% of their overall final grade. Also, please know that English Literature 12 and AP English Literature & Composition 12 are two different courses. Skills and content do not overlap. Students may take them individually, but are encouraged to enroll in both. In the event there are too many applicants for this course, **all** applicants will be required to complete a writing assessment in the spring. Students will be notified of the date and time through their English classes. Universities will only use English 12 or AP English Literature & Composition 12 as an academically approved grade 12 course for admission. They will not use both in the calculation for admissions.

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# FINE ARTS DEPARTMENT

## ART



### ART 10

*Counts as an ADST or Arts Education elective*

Prerequisite: in grade 9 or 10

Art 10 continues to build on the foundation established in Art 8; however, students with little or no art experience are also welcome. The projects in Art 10 are designed to meet a wide range of students' skill and experience in art. Course material includes drawing, painting, design and graphics, 3D construction, printmaking, fabric art and some art history appreciation. Students are expected to maintain a sketchbook.

### ART FOUNDATIONS 11

Prerequisite: Art 10 and in grade 11 or 12

Art Foundations 11 is an exciting foundational year for senior art. Many new techniques and media will be introduced this year in preparation for Art 12. This is the year to explore and develop skills and techniques prior to entering the advanced levels of visual arts. Students will continue to develop drawing, painting, print making and sculpting skills with an emphasis on image development, composition and design. Critiques will occur in class and each student will be expected to maintain a sketchbook to aid in recording their ongoing development as an artist.

### ART FOUNDATIONS 12

Prerequisite: Art Foundations 11 or Studio Art Drawing & Painting 11 or 12

This course will bring all of your art skills and knowledge together to create works in a variety of media and genres. Through exploration of identity and self you will be challenged and surprised by the ability to overcome critical thinking problems and develop art works that you previously thought you could not possibly do. If you can imagine it, we can do it! Advanced techniques in drawing, painting, printmaking, sculpture and design will be examined as well as incorporating art history in a fun and interesting way. Critiques will take place during classes and a sketchbook will be maintained by each student.

### STUDIO ART 11 Drawing & Painting

Prerequisite: in grade 10, 11, or 12

Studio Art 11 Drawing & Painting is designed for students wishing to intensively cover drawing and painting strategies introduced in Art 10 and 11 and develop skill in a variety of mediums. This is an excellent prep course for AP Studio Art 2-D Design 12.

*Drawings* – pencil, charcoal, conte crayon, pen and ink, coloured pencil. *Paintings* – water colour, water crayon, chalk pastel and acrylics. Sketchbook assignments are required each term.

### **STUDIO ART 12 Drawing & Painting**

Prerequisite: Studio Art 11 Drawing & Painting or Art Foundations 11

This course is the advanced level of drawing and painting. It is designed to meet the needs of experienced students who wish to continue their education in art through drawing and painting. Sketchbook assignments are required each term. During this course, students are encouraged to complete the AP Studio Art 2-D Design 12 portfolio (fee \$135). This does require a greater time commitment and a strong background in visual arts. Those students wishing to continue on in the visual arts at post-secondary will be able to build a usable portfolio for entrance application.

### **PHOTOGRAPHY 11**

Prerequisite: in grade 10, 11 or 12

This photography course is designed to provide students with a basic understanding of 35mm B&W camera function, black and white film processing, as well as, darkroom printing techniques and procedures. Students will also be provided with a basic introduction to digital (DSLR) camera functions, operations and related technologies (SD card-readers, Photoshop, scanning, image quality, etc.). Approximately 75% of the course will be B&W film, while 25% will be digital (DSLR). Students will be introduced to image development concepts such as: viewpoint, lighting, texture, pattern, shape and form. Students will also begin to develop their own approach and style in photography. This course recognizes and stresses the importance of both practical and conceptual skills. Photo students can expect a year of new experiences—using both B&W film and basic digital-imaging. 35mm cameras will be supplied to students for 'in-class' assignments.

### **PHOTOGRAPHY 12**

Prerequisite: Photography 11

This photography course is designed to provide students with an opportunity to improve their technical skills both in B&W and digital (DSLR) image-making. Students will build on the skills and concepts taught in Photography 11 only with a focus on creative, experimental and conceptual projects. Students will review, reflect and build on the intricacies of camera lighting, controls, lens settings, composition and timing. Students will experiment and learn to 'break the rules' they learned in photography 11. Photography 12 students can expect 75%+ of the course to focus on digital (DSLR) assignments and 25% on B&W SLR film projects. Photography 12 students will be provided with the tools to continue producing beautiful and meaningful photographs for the rest of their lives. If students have their own DSLR cameras—this class will provide them with the opportunity to learn about their specific camera-operations. Students will be given more creative freedom and have the opportunity to sign-out cameras—both DSLR and film (a liability waiver will be included in the course package) overnight/weekends so that they can explore their worlds outside WGSS grounds.

### **YEARBOOK 11**

Prerequisite: Photography 11

This course emphasizes the development of the knowledge and skills required for the production of media art works—the WGSS yearbook. Students will develop an appreciation of the history of media arts by exploring a variety of printed media and techniques. Students will create media art works (ie: the yearbook) by utilizing a variety of technologies—digital camera, computer programs and photo-imaging software. This course will address the multifaceted needs of the beginning journalism student by introducing them to all phases of yearbook production. Students in this course will learn various skills related to journalism, layout and design, marketing, sales and advertising, photography, and graphic design. Students will also learn Adobe Photoshop and Josten's Yearbook Design, and the art of digital photography and photo enhancement. Classroom activities are closely related to the real world of interviewing, reporting, meeting deadlines and producing a widely viewed publication. Prospective Yearbook 11 students should: work well independently, be internally-motivated, be prepared for some extra-curricular commitments (eg: covering events outside of class-time), be extremely organized/timeline sensitive, be a creative self-starter, work exceptionally well in a team-based atmosphere and want to help produce the best WGSS Yearbook!

## **YEARBOOK 12**

Prerequisite: Photography 11 or Photography 12 or Graphic & Web Design 12 or permission of instructor

This course emphasizes the development of the knowledge and skills required for production of media art works—the WGSS yearbook. If students are continuing from Yearbook 11, they will be expected to take on a 'leadership/mentorship' role, in order to help new students acclimatize the fast-paced and exciting world of yearbook! Students will develop an appreciation of the history of media arts by exploring a variety of printed media and techniques. Students will create media art works (ie: the yearbook) by utilizing a variety of technologies—digital camera, computer programs and photo-imaging software. This course will address the multifaceted needs of the beginning journalism student by introducing them to all phases of yearbook production. Students in this course will learn various skills related to journalism, layout and design, marketing, sales and advertising, photography, and graphic design. Students will also learn Adobe Photoshop and Josten's Yearbook Design, and the art of digital photography and photo enhancement. Classroom activities are closely related to the real world of interviewing, reporting, meeting deadlines and producing a widely viewed publication. Prospective Yearbook 12 students should: work effectively independently, be internally-motivated, be prepared for some extra-curricular commitments (eg: covering events outside of class-time), be extremely organized/timeline sensitive, be a creative self-starter, work exceptionally well in a team-based atmosphere and want to help produce the best WGSS Yearbook!

## **CERAMICS 10**

*Counts as an ADST or Arts Education elective*

Prerequisite: in grade 9 or 10

If you have played with clay, or if you haven't, Ceramics is a fun course that teaches foundational ceramics skills. You will experiment with many different building and glazing techniques and you will have a chance to try the wheel!

## **STUDIO ART 11 Ceramics/Sculpture**

Prerequisite: Ceramics 10 or permission of instructor

Basic instruction is given in hand-building, sculpture, and wheel-throwing. This course expands upon the knowledge base of Ceramics 10 with a focus on both functional and creative pieces.

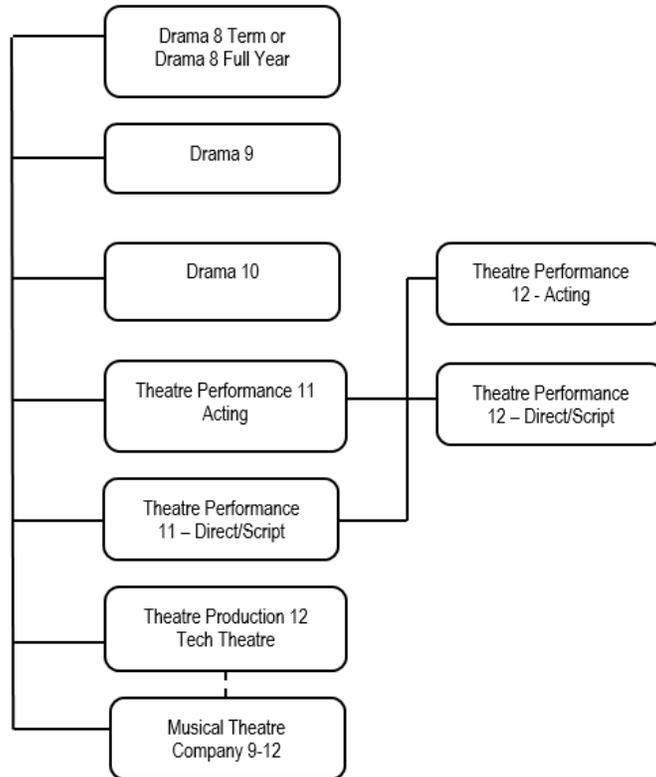
## **STUDIO ART 12 Ceramics/Sculpture**

Prerequisite: Studio Art 11 Ceramics/Sculpture or permission of instructor

Based upon the groundwork of Ceramics 11, students enjoy more opportunity to develop and enhance their skill building in sculpture, wheel-throwing and hand building. There is a focus on personal development and exploration of individual ideas.

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# DRAMA



The Theatre Program at Walnut Grove is founded on four basic principles: cooperation, concentration, trust and self-control. It is through the development and refinement of these skills that strong acting practices are developed.

Drama provides students with opportunities to examine the thoughts, feelings, beliefs and actions of themselves and the world around them. Drama reflects and affects the aesthetic, cultural, historical, and global context in which it exists. It is also applicable to a variety of career and life situations.

## **DRAMA 9**

*Counts as an Arts Education elective*

Prerequisite: none

Basic acting skills will be introduced through rehearsals and presentation. The four elements of drama; cooperation, concentration, trust, and self-control, are important fundamentals of this course. Through areas such as tableaux, mime, improvisation, voice, and scene work, we will continue to refine our core skills of acting. Evaluation will be based on involvement and participation. This course is highly participatory.

## **DRAMA 10**

Prerequisite: in grade 10

Students will continue to develop skills in each of the four elements of drama through work in areas including movement, mime, improvisation, voice, and scene work/play building. Ensemble performance and scene work will be introduced. Evaluation will be based on involvement and participation. This course is highly participatory.

### **THEATRE PERFORMANCE 11 ACTING**

Prerequisite: none although Drama 8, 9, 10 is recommended

This course requires students to have a strong understanding of the four elements of drama as this course explores the idea of ensemble and performance. This course focusses on acting skills. Students will learn to use their bodies and voices expressively to develop character. Through their work in theatre performance, students have opportunity to explore and develop expression, trust, and self-confidence. Work will include monologues, scenes, and plays. Students will also analyze and examine their own work and that of their peers. This course is highly participatory.

### **THEATRE PERFORMANCE 12 ACTING**

Prerequisite: Theatre Performance 11

This course provides intensive study in the techniques outlined in Theatre Performance 11. In addition, acting styles relating to various periods in the history of theatre and styles appropriate to acting will be studied. Performance opportunities both in class and in extra-curricular areas may be available to these students. This course is highly participatory.

### **THEATRE PERFORMANCE 11 DIRECT/SCRIPT**

Prerequisite: Theatre Performance 11 (Acting) should be taken concurrently, and/or permission from instructor.

This course is designed as an introductory course to directing scene work and scriptwriting for the stage.

Term 1 will focus on aspects of scriptwriting; term 2 will focus on directing (students in short scenes) and preparation of a director's book, and writing of an original script 10 – 15 minutes in length; term 3 will consist of preparing the original script for production to a live audience. On completion of this course, students should effectively lead small groups, produce a series of writing assignments geared to stage production, and have written and produced an original script

### **THEATRE PERFORMANCE 12 DIRECT/SCRIPT**

Prerequisite: Theatre Performance 11 or permission of instructor

This course is designed for the drama student interested in directing other students in scenes, as well as writing his/her own plays. On completion of this course, students should be able to lead a small group effectively, accept leadership of other students, direct a short scene with some competence, write a moderate length one-act play, know and use basic theatre, directional and script terminology, and for a final project, each student shall write and direct a one act play for public performance.

### **THEATRE PRODUCTION 12 TECH THEATRE**

Prerequisite: in grade 11 or 12

Students in this course will be working alongside the Musical Theatre Company on our annual musical production. Students will have the opportunity to work in the areas of set construction, lighting, sound, props, and costuming. Specific projects and roles will be determined as the course progresses. In Term 1 students will work alongside the Musical Theatre Company students learning the show and in Term 2 work will begin creating all the technical elements of the show.

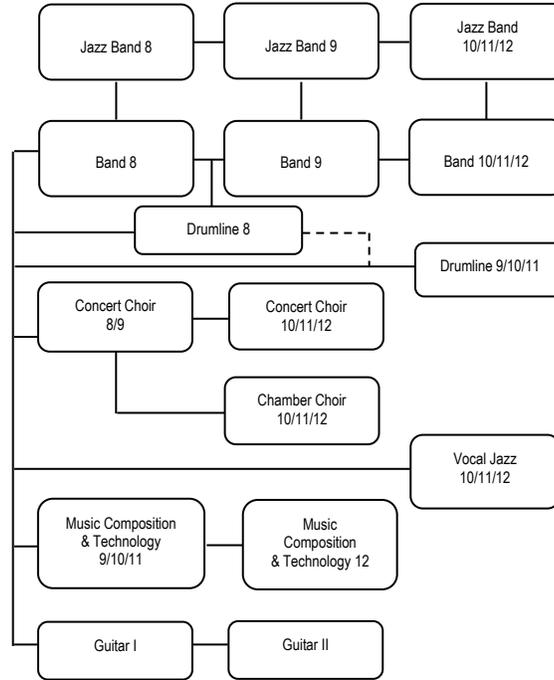
### **MUSICAL THEATRE COMPANY 9-12**

Prerequisite: none

The purpose of this course is to encourage students' appreciation, understanding, and performance of Musical Theatre, through the production of a yearly musical. This course culminates in public performances in the Spring. Students will learn the skills, organization, demand, outcomes and rewards of being in a musical theatre production company. This course is open to any student in grade 9-12 who is willing to commit to the school production and all its rehearsals in and out of school time. A calendar will be provided to the students in the first weeks of classes. Students who enroll will receive credit for the appropriate performance or production course at the appropriate grade level.

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# MUSIC



## **BAND 9**

*Counts as an ADST or Arts Education elective*

Prerequisite: previous grade level of Band or permission of the instructor.

This course is intended for those students in Grade 9 who demonstrate intermediate musical skills and/or have successfully completed Band 8. Music costs may include concerts, festivals, and trips. Students will be expected to pay a uniform cleaning fee to the Music Parents' Association (Cost TBA)

## **BAND 10/11/12**

Prerequisite: previous grade level of Band or permission of the instructor.

Band 10/11/12 is a continuation of previous band courses. Building on previous experience, this course expands and challenges the players' skill set and increases the student's ability, understanding, and appreciation of music through performance and study. Music costs may include concerts, festivals, and trips. Students will be expected to pay a uniform cleaning fee to the Music Parents' Association (Cost TBA)

## **JAZZ BAND 10/11/12**

Prerequisite: Band 9/10/11

Co-requisite: Band 10/11/12 or permission of instructor

Jazz Band 10/11/12 are extended day courses, expanding on earlier jazz offerings. They are available to those interested in developing advanced musical technique in ensemble and solo playing, as well as understanding of the development of jazz. Music costs may include concerts, festivals and trips. Students will be expected to pay a uniform cleaning fee to the Music Parents' Association (Cost TBA). This course will be offered outside the timetable.

## **CONCERT CHOIR 10/11/12**

The students in this course will be members of the Walnut Grove Concert Choir. Traditional Choral Music in many styles will be studied and performed. Emphasis will be placed on developing the healthy singing voice, music literacy and ear training. The Concert Choir will participate in regular Music Department concerts, community concerts, festivals, competitions, and concert tours. This course will be offered outside the timetable. Enrollment in the Concert Choir is a corequisite for membership in Jazz Choir. Music costs may include concerts, festivals and trips.

\*Chamber Choir will be formed from the members of the Concert Choir through an audition process.

### **VOCAL JAZZ CHOIR 10/11/12**

Corequisite: Concert Choir 9/10/11/12 and audition.

This course is an introduction to vocal jazz and its various forms: music theory directly related to vocal jazz, and jazz literature. Students will have opportunities to perform publicly both as soloists and as members of the choir. This course will be offered outside the timetable. Music costs may include concerts, festivals, and trips.

### **MUSIC COMPOSITION & TECHNOLOGY 9**

Prerequisite: the ability to read music.

Topics discussed will include: music theory, music appreciation, harmony, ear training and listening, composition, and arranging. Music Composition is recommended for students who desire a more complete understanding of the language of music and/or who are oriented toward a music-related career. Grade 9 students need instructor's permission. This course is recommended for all students interested in a career in music.

### **MUSIC COMPOSITION & TECHNOLOGY 10/11**

Prerequisite: must be in grade 10, 11, or 12 or permission of the teacher and have the ability to read music.

Topics discussed will include: music theory, music appreciation, harmony, ear training and listening, composition, and arranging. Music Composition is recommended for students who desire a more complete understanding of the language of music and/or who are oriented toward a music-related career. This course is recommended for all students interested in a music career.

### **MUSIC COMPOSITION & TECHNOLOGY 12**

Prerequisite: Music Composition 11

This course is a continuation and completion of Music Composition 11. The course is divided into the following areas: rudiments of music (a theoretical approach); basic harmony; aural training (listening); arranging.

### **DRUMLINE 9/10/11**

Prerequisite: permission of teacher or previous level of Drumline.

Drumline is an exciting music ensemble based on the percussion section of the marching band, and fulfills a fine arts requirement. Although it demands military-like precision, previous musical training is not required. What it does require is both a strong willingness to learn to read and play percussion, and develop the exacting group precision that is part of playing 'the Line'. This is an extended day course.

### **GUITAR I**

Prerequisite: must be in grade 10, 11, or 12

Guitar I is for beginning and less experienced students interested in learning to play the guitar. The emphasis of this course will be learning proper playing technique and the basics of music theory, through the study and performance of a variety of styles of music. There will be regular in-class performances and the opportunity for recording. Guitars will be available for classroom use, although students may bring their own acoustic or classical guitar.

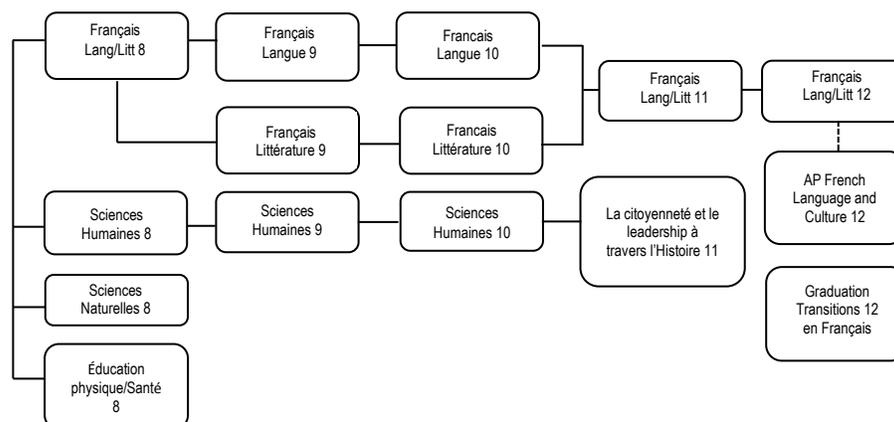
### **GUITAR II**

Prerequisite: Guitar I or permission of the teacher. Must be in grade 10, 11, or 12

Guitar II is for experienced guitarists interested in continuing their study of the instrument. This course will expand students' playing technique and understanding of music theory through the study and performance of a variety of styles of music. There will be regular in-class performances and the opportunity for recording. Guitars will be available for classroom use, although students may bring their own acoustic or classical guitar.

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# FRENCH IMMERSION



## **FRANÇAIS LANGUE 9**

Prerequisite: Français Langue 8

The analytical approach to language elements initiated in Grade 8 will be continued with a higher expectation of accurate application of these elements in communicative situations. Students will apply their language skills in aural comprehension, oral presentation, formal-informal discussion as well as written form.

## **FRANÇAIS LITTÉRATURE 9**

Prerequisites: FRAL 8, Sciences Humaines 8, Sciences Naturelles 8, Education Physique 8

This course examines and extends language skills through literature using reading, writing, listening and speaking. The analytical approach to language elements initiated in Grade 8 will be continued with a higher expectation of accurate application of these elements in communicative situations. Students will apply their language skills in listening comprehension, oral presentation, formal-informal discussion and in written form.

## **SCIENCES HUMAINES 9**

Prerequisites: FRAL 8, Sciences Humaines 8, Sciences Naturelles 8, Education Physique 8

In this course, we continue our studies of geography and world history, integrating students' personal expression, human experience and cultural development. A co-operative French learning environment is used to allow students to apply French language skills accurately and fluently in listening comprehension, oral presentation, discussion and written forms.

## **FRANÇAIS LANGUE 10**

Prerequisite: all prior 8 and 9 French Immersion courses

In this course students continue to study the elements of language developed in earlier grades with a greater emphasis on correctness of spoken and written language. The acquisition of vocabulary will continue through a thematic literature approach. Students write longer pieces according to the rules of composition, summaries, reports, research and business communication. The communication element of the course includes Francophone media, role play and presentations.

## **FRANÇAIS LITTÉRATURE 10**

Prerequisite: all prior 8 and 9 French Immersion courses

This literature based course extends language skills through reading, writing, listening and speaking. Reading materials and multi-media resources enhance depth of understanding of Francophone cultures and allow for participation in purposeful communication through listening comprehension, oral presentation, discussion and written work.

## **SCIENCES HUMAINES 10**

Prerequisite: Sciences Humaines 9

This course develops skills and concepts from the Sciences Humaines 10 curriculum. Reading, writing, speaking, listening and research skills in French will be applied to Canadian pre and post confederation history and geography. The course will stress an independent and active approach to co-operative learning, thinking and creative problem solving. Its focus is the development of Canadian social and political structures, issues, and literature.

## **LA CITOYENNETÉ ET LE LEADERSHIP À TRAVERS L'HISTOIRE 11**

Prerequisite: Sciences Humaines 10

This immersion course meets both the requirements of a Social Studies 11 credit and fulfills the grade 11 French immersion requirements.

This course offers students the opportunity to further enhance their second language proficiency through a Social Studies lens. Students will explore the themes of citizenship and leadership throughout history. Topics such as the compromise of power, the qualities of leaders and the effects on culture will be learned during the course. Students will also demonstrate their learning by designing and playing strategy games. This course aims to (1) explore how Social Studies concepts can be used in the creation of a learning artifact fashioned in the style of a game (2) encourage positive face-to-face interactions and develop leadership skills, and (3) have fun in a second language.

## **FRANÇAIS LANGUE/LITTÉRATURE 11**

Prerequisite: Français Langue 10, Sciences Humaines 10, Planification 10

FRAL 11 students develop communication skills in reading, writing, listening and speaking through examination of creative works in literature and multimedia, and through study of cultural differences. They develop the ability to acquire information and acquire intermediate/ advanced language skills.

## **FRANÇAIS LANGUE/LITTÉRATURE 12**

Prerequisite: Français Langue/Littérature 11

This is the final course in the French Immersion program. It incorporates and refines skills acquired in previous years of French Immersion with emphasis on writing, reading and speaking skills and analytical discussion of literary works. Course work will count for 60% of the final mark. The remaining 40% is based on the student's performance on the June provincial exam which assesses reading, writing, and oral skills. This exam includes a scheduled oral test which consists of a ten-minute prepared topic in the form of a recorded interview sent for grading as part of the provincial. The oral usually takes place the third week in May and the written portion during the provincial exam schedule in June. With successful completion of FRAL 12 and the provincial, students earn the Bilingual Dogwood. This course is an academically approved course for post-secondary admissions.

## **GRADUATION TRANSITIONS 12**

To be taken in Grade 12

Students enrolled in the French Immersion program are required to complete their course work and presentation in French.

In grade 12 Graduation Transitions is a required four credit program that all students must complete in order to graduate. It is introduced during the Grade 10 year in Planning, extends through Grade 11, and culminates in an exit presentation near the end of Grade 12. This is a Semester course and students meet with their Graduation Transitions teachers on a once-a-week scheduled basis until their presentation is completed in January. Graduation Transitions is intended to prepare students for successful transition to life after high school. Students will be required to demonstrate they have the knowledge, skills and attitudes in the areas of personal health, community connections, and career and life. They will be required to collect evidence of their achievement in each of these three areas and reflect upon their learning. To successfully meet the BC high school graduation requirements, all students must demonstrate that they have met the following requirements:

- Personal Health - maintain a personal health plan and participate in at least 130 hours of moderate, vigorous physical activity, in addition to PE10
- Community Connections - participate in at least 30 hours of work experience and/or community service and describe what was learned
- Career and Life Goals - complete a transition plan and present significant accomplishments.

## **AP FRENCH LANGUAGE AND CULTURE 12**

Prerequisite: FRAL 11

AP French Language and Culture 12 is a challenging college-level course for students in FRAL12 who are interested in applying and developing skills that will allow them to prepare for the AP French Language and Culture 12 exam in May of their Grade 12 year. The context overlaps with FRAL 12 through a thematic approach using a variety of cultural products, practices, and perspectives. This course will be offered within the regularly scheduled FRAL 12 block.

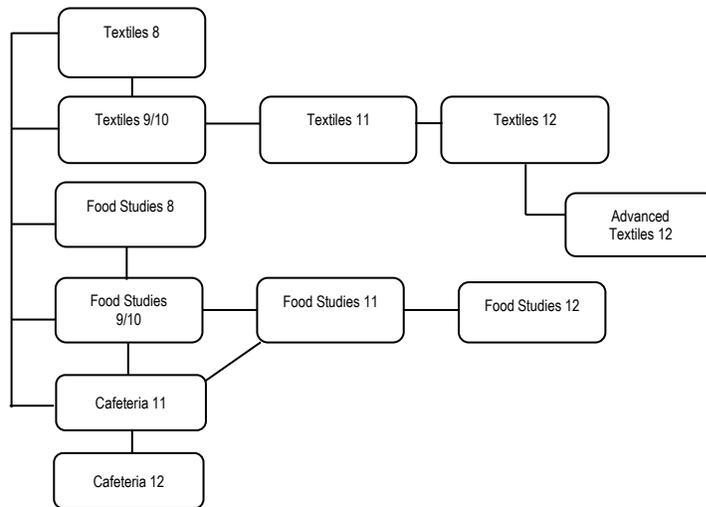
Students who enroll in AP French Language and Culture 12 should already have a good command of French grammar and vocabulary and have competence in the following four skills: listening comprehension, reading comprehension, speaking and writing. AP seeks to develop these skills further and to use the language for active communication in the following:

- The ability to understand spoken French in various contexts.
- A French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts and other non-technical writings without depending on a dictionary.
- The ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in written and spoken French.

Work is structured around five themes: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, Beauty and Esthetics. Through these, students will learn to prepare for, study for and write a cumulative exam covering material in this discipline. Students will have the option to write the AP exam in May (fee \$135); depending on the exam score, they may have the option to receive credit for a first-year university course. All AP courses are academically approved grade 12 courses for post-secondary admissions.

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# HOME ECONOMICS DEPARTMENT



## **TEXTILES 9/10**

*Counts as an ADST or Arts Education elective*

Prerequisite: none

This course introduced students to a variety of machines and technologies used in the textiles industry: sewing machine, serger and computerized embroidery machine. Students will learn how to problem solve and refine their ideas when working with different types of fabrics and construction processes. Basic pattern changes will be done to all garments to ensure a perfect fit and the vision of the user. Elements and principles of design will be looked at not only in fashion magazines and the “runway” but also how this applies to their clothing choices. Personal color analysis will also be experimented and played with in order for students to learn which colors are most flattering for them and how to coordinate these into a well-planned wardrobe. Three projects will be completed through the year: a hooded sweatshirt (pattern provided), holiday stocking (pattern provided) and a skirt or shorts based from a commercial pattern of their choice. If time permits, students will learn how to mend and/or up-cycle a piece of clothing they no longer wear into something new. Students must supply their own materials and commercial pattern.

## **TEXTILES 11**

Prerequisite: Textiles 10 or with special permission from the teacher

This is an intermediate level textiles course designed to expand the sewing skills and knowledge needed to construct more difficult garments. Students will gain more experience working with more difficult fabric such as thin knits, satins, lace and stripes. Students will also learn how to applique to personalize a project and use the embroidery machine. A minimum of five projects will be completed through the year: a knit shirt, applique project, striped bag, embroidered jewelry bag and a satin or lace project of their choice. If time permits students will also learn the basics of swim wear construction. An exploration of new advances in fabrics and career opportunities in the fashion industry will also be discussed. Up cycling an old garment will also be implemented if time permits. Students must supply their own project materials.

## **TEXTILES 12**

Prerequisite: Textiles 11

Content: This advanced course is for students who are ready to work on more difficult techniques requiring precision and attention to detail. Students will learn the basics of how to make a shirt or jacket with collar and buttons, different types of quilting and more advanced constructions such as a welt pocket, bound button, Hong Kong finish and many more. From this knowledge, students will be able to choose a project that incorporates one or more of these techniques. Pattern alteration will also be put into practice as every project will need to be adjusted in order for a perfect fit. A minimum of three projects will be made: shirt or jacket, a small quilted pot holder and a project of their choice. Up cycling an old garment will also be looked at and implemented if time permits. Students must supply their own project materials.

## **ADVANCED TEXTILES**

Prerequisite: Textiles 12 or currently taking Textiles 12

This course is very self-directed as students work on projects of their choice. Projects can be made from commercial pattern, creating their own pattern from a piece of clothing they already like or combining different patterns to make their own. Students will challenge themselves with learning more advanced techniques and fitting. This course is all about trial and error as students learn, many samples will be made and adjustments made from that prototype. Students must supply their own project materials.

## **FOOD STUDIES 9/10**

*Counts as an ADST or Arts Education elective*

Prerequisite: none

Whether or not you took Foods in Grade 8, you are invited to develop and explore a passion for learning how humans feed themselves: but imagination and open mindset are key! In this course, students will build upon the basics from FS 8 by undertaking a journey through the world of food. There are so many issues that influence what and how we choose to eat. The only way we can begin to understand what it all means is by doing! In FS 9/10 students will learn to use more advanced cooking techniques and tools, as well as be able to explore their creative sides both in and out of the kitchen

## **FOOD STUDIES 11**

Prerequisite: Food Studies 9/10

This course provides a more advanced study, both theoretical and practical, into the principles and techniques of food management and preparation. Students will be exposed to various types of cooking, gourmet food preparation and nutrition. Eating disorders will be discussed. Exercise your culinary talents and become the *Iron Chef* of your own kitchen!

## **FOOD STUDIES 12**

Prerequisite: Food Studies 11

This course is for food enthusiasts who are eager to improve their food preparation skills. Students will be given the opportunity to plan meals and choose their own recipes. A culinary tour of the world's finest foods is always popular, as well as the opportunity to explore new and exciting entertaining ideas.

## **CAFETERIA 11**

Prerequisite: in grade 10 or higher

Learn to cook in a professional kitchen! Cafeteria 11 is a hands on cooking course where you will learn knife skills, how to follow a recipe, portion control, time management, and much more! Under the guidance of a Red Seal Chef, students prepare food for the cafeteria on a daily basis and therefore, attendance and participation are essential to students' success. Food safe certification is included, which is required if you are looking for a career in the food/hospitality industry, or just want to get a job while in school. Even if you just want to learn to cook, this course is for you!

## **CAFETERIA 12**

Prerequisite: Cafeteria 11

This course will still focus on preparing food for the cafeteria, but students who are taking cafeteria for the second or third year, will have more of a leadership role in the kitchen and the opportunity to mentor younger and less experienced students. A certain level of maturity is expected from students, as more responsibility is given.

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# HUMANITIES DEPARTMENT



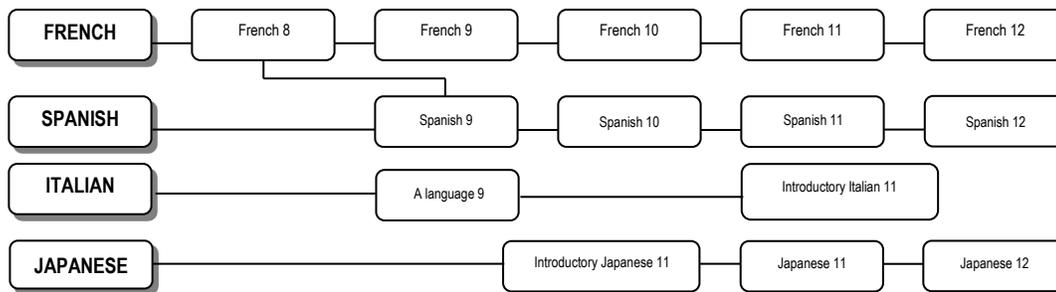
## **HUMANITIES 9**

Prerequisite: English 8, Social Studies 8 or Humanities 8

This course combines the learning outcomes from the Integrated Resource Packages (IRP) for English 9 and Social Studies 9. All outcomes from each course will be covered in depth as both reading and writing skills are closely integrated in the historical context of the Regional Geography of North America, the age of Political and Economic Revolution in Europe and North America (including Canadian Confederation), the Industrial Revolution, and the First World War. In addition to exploring the topics of literature, poetry, and writing, students will use the processes and skills in the English curriculum to demonstrate knowledge of the Social Studies content. Students will develop a variety of skills, including critical thinking, reading comprehension, essay writing, the mechanics of writing, and the use of media.

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# LANGUAGE DEPARTMENT



\*See [page 21](#) for university language requirements.

## **FRENCH 9**

Prerequisite: French 8

French 9 continues to develop students' comprehension, writing and oral skills and more complex vocabulary and grammatical structures, via the communicative approach, within the context of a variety of themes. Students are introduced to the future proche and the passé composé verb tenses.

## **FRENCH 10**

Prerequisite: French 9

Students further develop their skills in listening, speaking, reading and writing, using the communicative approach. A variety of themes provide the context for this course. Emphasis is on distinguishing between présent, passé, composé, futur, and using these in context.

## **FRENCH 11**

Prerequisite: French 10

This course continues development of oral and written communication in French as well as advancing listening and reading comprehension of francophone media and literature. Oral participation is simple but communicative French is emphasized.

## **FRENCH 12**

Prerequisite: French 11

French 12 is an advanced elective which further develops students' skills in writing, understanding and speaking French. Oral and listening activities enrich the program, but the emphasis is on reading creative, informative and authentic materials and on composition and grammatical skills. This course is an academically approved grade 12 course for post-secondary admission.

## **SPANISH 9**

Prerequisite: French 8

To be successful in Spanish 9 it is highly recommended that students have achieved at least a C+ in French 8. Spanish 9 is designed for students *with no previous knowledge* of Spanish. The course will be based on reading, writing, speaking and listening skills and on an appreciation of Hispanic culture. It is extremely important to keep in mind that Spanish is an **academic** elective. It is expected that students enrolling in Spanish 9 be prepared for the intensive workload of learning a completely new and exciting language.

## **SPANISH 10**

Prerequisite: Spanish 9

Spanish 10 builds on skills and knowledge acquired in Spanish 9. A solid mastery of these skills is expected for those who decide to continue to this next level of the Spanish program. Students will work on comprehension and expression along with every day vocabulary and grammatical structures (focusing on the past tense).

### **SPANISH 11**

Prerequisite: Spanish 10

The Spanish 11 class builds on material learned in the beginner's course to further develop communication skills in Spanish through listening, speaking, reading and writing. Oral communication comprises much of this course. Each unit focuses on a different Spanish speaking country and enables students to continue to learn about Hispanic cultures. Students should buy a small Spanish-English dictionary for reference.

### **SPANISH 12**

Prerequisite: Spanish 11

This is an advanced Spanish language course intended to continue to refine the skills developed in the previous two levels of Spanish. Hispanic culture and literature will be explored in greater depth. This course will only be offered if enrollment is sufficient. This course is an academically approved grade 12 course for post-secondary admission.

### **INTRODUCTORY ITALIAN 11**

Prerequisite: completion of any grade 9 language course

This is an accelerated beginning course introducing students to written and spoken Italian through a communicative approach. Students work on comprehension and expression along with grammatical structures and everyday vocabulary. The course also emphasizes appreciation and understanding of Italian culture. This course, while open to any grade 10, 11, or 12 students might be especially useful for current or former French Immersion students who would like to branch out and try an additional language with similarities to French.

### **INTRODUCTORY JAPANESE 11**

Prerequisite: must be in grade 10, 11, or 12

Introductory Japanese 11 is intended to be an introduction to basic Japanese, including simple phrases, basic vocabulary and an understanding of the hiragana writing system. The course does not assume any prior knowledge of Japanese language. The course will focus heavily upon oral communication, basic listening comprehension, and an introduction to basic grammar. There is a considerable cultural component as well.

### **JAPANESE 11**

Prerequisite: Japanese 10 or Introductory Japanese 11

Increasing emphasis will be placed on reading and writing skills and it is expected that the student will develop proficiency in both phonetic scripts as well as a number of basic kanji. Emphasis will be placed on the development of written, oral and aural skill in order that the student will be able to carry on increasingly complex conversations. The language will be taught through the use of the Japan Foundation's texts and resources, to enable students to attempt the lower levels of the Japanese language proficiency exam if they wish to do so.

### **JAPANESE 12**

Prerequisite: Japanese 11

Studies continue in conversational Japanese. However, the program is no longer as heavily focused on oral practice. Study of grammar and usage is developed, especially usage as determined by situation. Students will acquire much greater flexibility of expression, and writing studies will be focused on acquiring and using a greater number of common Kanji. The course will continue to rely upon the Japan Foundation's texts and resources, to enable students to attempt the lower levels of the Japanese language proficiency exam if they wish to do so. This course is an academically approved grade 12 course for post-secondary admission.

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# LEADERSHIP

## LEADERSHIP 11/12 – GATOR POD

Prerequisite: must be in grade 11 or 12

Leadership students are in many ways the life-blood of the Gator Pod program as they design and carry out the fun and unique challenges that Gator Pod is known for, as well as, build meaningful and supportive relationships with our grade 8 students. Participants in this course will mentor students both academically and socially within the unique interdisciplinary environment provided by Gator Pod.

Some of the more notable tasks Leadership students normally tackle include helping organize and execute: technology tutorials, Caine's Arcade, House Cup celebrations, Genius Week, Terra outdoor survival simulation, Amazing Race, and Gators' Den. While these challenges demonstrate Gator Pod's commitment to engaging student-centered hands on learning, it is also important to note that Gator Pod also values community service. Consequently, the leaders are asked to help organize Remembrance Day activities, coordinate the sponsoring of local families around the holidays, and finally to help reach out and visit with our school's Explorations special education students.

Leaders in the course do not work in isolation but instead collaborate with as many as four additional leaders each day. We are very deliberate in where we place our leaders (Socials, English, Computers, and Science) as we want them to be operating within an area of strength and passion. Consequently, we ask prospective students to submit an application form indicating their preferred subject area, as well as, any other leaders they feel they could work with productively.

To thrive in Leadership 11/12, students must be team players, self-starters, strong communicators, good role models and enthusiastic about mentoring younger students. This course is designed for Leadership students who want to be a part of something special and who are interested in enriching their school community. The opportunities and experiences offered up by this Leadership course are guaranteed to bolster any student resume and or reference letter.

## LEADERSHIP IN SPORTS AND ATHLETICS 11/12

Prerequisite: must be in grade 11 or 12

"If your actions inspire others to dream more, learn more, do more and become more, you are a leader". This quote by John Quincy Adams expresses the essence of this leadership course in which students will learn how to inspire, motivate and build community through athletics and sport.

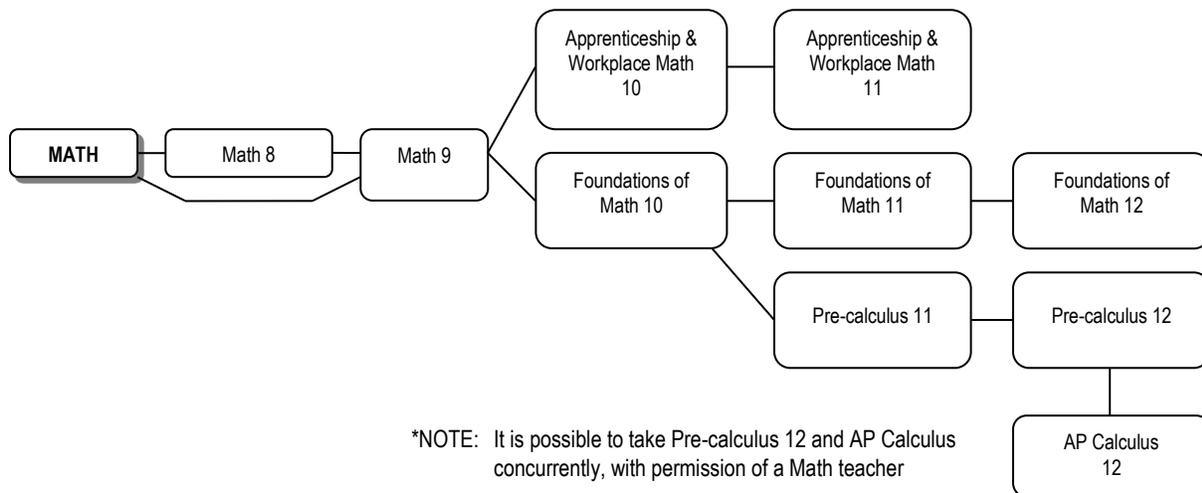
The overarching goal of this course is to provide an avenue in which students can make a positive difference at WGSS. Students will have the opportunity to discover their leadership potential and learn how to effectively utilize their leadership skills in different settings. Students should expect a fun, engaging, self-directed, collaborative, but challenging experience that is infused with technology.

Students are encouraged to sign up with friends and teammates as the course provides the opportunity for many cooperative group challenges. Some of the larger scale group challenges include designing and selling Gator Gear at the Chomp Shop, hosting the school's Annual Club Day, and carrying out the Terry Fox/TUFF WALLY challenge. A class favourite also includes designing and executing a lesson in a junior PE class.

This course is ideal for students who are looking for potential careers in physical education, personal training, coaching, advertising/marketing, sports broadcasting or in recreation. Students will have the freedom to explore their own passions and to develop and carry out their own initiatives. The course also includes numerous field trips designed to introduce students to new recreational activities such as rock climbing, gymnastics, and skating.

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# MATH DEPARTMENT



## **MATHEMATICS 9**

Prerequisite: Mathematics 8

Students will extend many of the topics and ideas studied in Math 8. Students will continue a contextual approach in the investigation of mathematical concepts and work towards conceptual understanding and numeracy. Learning activities will continue to help students proceed from simple, concrete ideas to more abstract, complex concepts. This course prepares students for both grade 10 level math courses. Course content: scale factors and similarity, symmetry and surface area, rational numbers, powers and exponents, polynomials, linear relations, equations, inequalities, circle geometry, data analysis, and probability.

## **CHOICES IN MATH STARTING IN GRADE 10:**

There are several options for Math courses starting at the grade 10 level. Each pathway is designed to provide students with the mathematical understandings, rigor and critical-thinking skills that have been identified for specific post-secondary programs of study and for direct entry into the work force.

The different courses are intended to allow students to focus and specialize on mathematical topics and skills that match their abilities, interests, and future education and career plans. For more information about courses and choices, see a counsellor or math teacher, or by visiting the Ministry of Education website at [http://www.bced.gov.bc.ca/irp/irp\\_math.htm](http://www.bced.gov.bc.ca/irp/irp_math.htm)

Just as Biology, Chemistry, and Physics are different courses with different content, the Math courses at each grade level contain different content and concepts, rather than representing different 'levels' of the same content.

As such, students may choose to select more than one math course if they desire. For example, a student might choose to take both Foundations and Pre-Calculus starting in Grade 11 to gain a broad Mathematical background.

Post-Secondary Requirements: Math requirements vary for specific institutions and post-secondary programs. **Students are encouraged to check specific Math requirements by consulting** calendars & websites for specific institutions, a WGSS counselor, or the 'Education Planner' website: <http://www.educationplanner.ca>

## **APPRENTICESHIP & WORKPLACE MATH**

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force.

## **APPRENTICESHIP & WORKPLACE MATH 10**

Prerequisite: Math 9

Topics in the course include Algebra and number: proportional reasoning including unit pricing, formula manipulation and application; Financial Mathematics: types of income; Geometry: spatial puzzles and games, Pythagorean Theorem, similarity of convex polygons; Measurement: SI and Imperial units and conversions, linear, area, volume, capacity, mass, and temperature; Trigonometry: right-angle triangle trigonometry.

### **APPRENTICESHIP & WORKPLACE MATH 11**

Prerequisite: Apprenticeship & Workplace Math 10 or permission of Math teacher

Topics in this course include Algebra and Number: proportional reasoning including unit analysis, formula manipulation and application, numerical puzzles and games; Financial Mathematics: personal budgets, compound interest, financial services including credit cards and loans; Geometry: two and three right triangle problems, scale representation of 3-D objects, exploded views and component parts of 3-D objects; Measurement: surface area, volume and capacity in SI and Imperial units; Relations and Functions: slope; statistics: bar graphs, histograms, line graphs and circle graphs; Trigonometry: Cosine Law and Sine Law excluding the ambiguous case.

### ***FOUNDATIONS OF MATH***

This 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.

### **FOUNDATIONS OF MATH 10**

Prerequisite: Math 9

Topics in the course include Algebra and Number: factors of whole numbers, irrational numbers, powers with integral and rational exponents, multiplication of polynomial expressions, common and trinomial factors; Measurement: SI and Imperial units and conversions, surface area and volume of 3-D objects; Relations and Functions: relationship between data, graphs and situations, slope linear relations and characteristics of their graphs, function notation, systems of linear equations; Trigonometry: right-angle triangle trigonometry.

### **FOUNDATIONS OF MATH 11**

Prerequisite: Foundations of Math 10

Topics in this course include Algebra and Number: application of rates; Geometry: scale factors, areas, surface area, and volume, proofs for the properties of angles and triangles, spatial puzzles and games; Logic: inductive and deductive reasoning; Relations and Functions: systems of linear inequalities in two variables, quadratic functions; Mathematics Research: research on historical event or area of interest involving mathematics; Statistics: normal distribution, standard deviation, and z-scores, confidence intervals, confidence levels, and margin of error.

### **FOUNDATIONS OF MATH 12**

Prerequisite: Foundations of Math 11

Topics in this course include Finance: compound interest and financial decision making, analysis of buying, leasing, and renting, analyze an investment portfolio in terms of interest rate, rate of return, and total return; Logic: analysis of puzzles and games involving logical reasoning, application of set theory, conditional statements; Probability: interpret and assess the validity of odds and probability statements, mutually exclusive events, combined events, fundamental counting principle, permutations and combinations; Relations and Functions: polynomial functions and regression, exponential and logarithmic functions and regression, sinusoidal functions and regression; Mathematics Research: research on historical event or area of interest involving mathematics. This course is on the list for academically approved Grade 12 courses for admission to most post-secondary institutions.

### ***PRE-CALCULUS (STARTING AT GRADE 11)***

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus. The study of Calculus is part of post-secondary programs in fields such as Science, Engineering, Mathematics, and Business. Note that the Pre-calculus math courses involve highly theoretical, abstract concepts. **A high grade in Foundations of Math 10 is strongly recommended to enroll in Pre-calculus 11.**

### **PRE-CALCULUS 11**

Prerequisite: Foundations of Math 10 with a recommended minimum mark of 60%

Topics in this course include Algebra and Number: absolute value, radicals, radical expressions & equations, rational expressions and equations; Relations and Functions: polynomial factoring, absolute value functions, quadratic functions, linear-quadratic and quadratic-quadratic systems, one-variable quadratic inequalities, two-variable linear and quadratic inequalities, arithmetic sequences & series, geometric sequences & series, reciprocal functions; Trigonometry: angles and trigonometric ratios for angles from  $0^\circ$  to  $360^\circ$  in standard position, Cosine Law and Sine Law including ambiguous case.

## **PRE-CALCULUS 12**

Prerequisite: Pre-calculus 11

Topics in this course include Trigonometry: radian measure of angles, primary and reciprocal trigonometric ratios, unit circle, primary trigonometric functions and transformations, solving linear and quadratic trigonometric equations, trigonometric identities including reciprocal, quotient, Pythagorean, sum and difference, and double-angle; Relations and Functions: operations on, and composition of functions, transformations of functions and relations, including translations, reflections, expansions/compressions, and inverses, exponential functions and equations, logarithmic functions and equations, laws of logarithms, polynomial functions and equations, factoring of polynomials, radical functions, rational functions; Combinatorics & Probability: fundamental counting principle, permutations and combinations, binomial expansion theorem. This course is an academically approved grade 12 course for post-secondary admission.

## **AP CALCULUS 12**

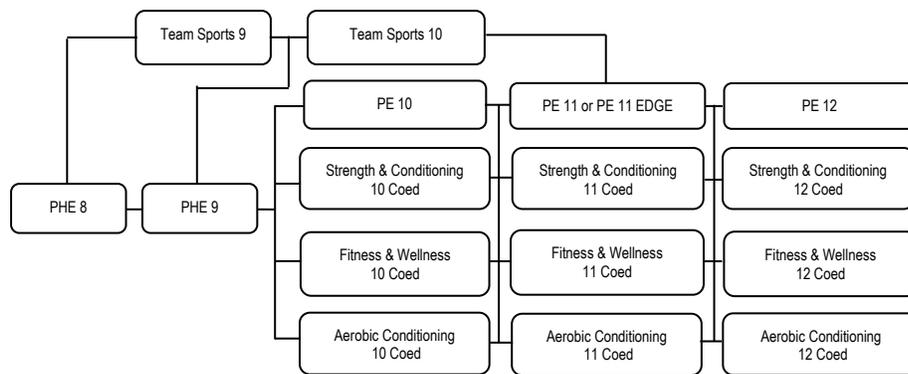
Prerequisite: Pre-calculus 12, or Pre-calculus 11 along with permission of the Math department. (Please see Mr. Balzarini or a counsellor for more information.)

This course is intended for students who are planning to enter a university or college program requiring a Calculus course, and would like to do some preliminary study of the subject. Students who successfully complete this course will find themselves very well prepared for any first year, university level Calculus course.

Topics in this course include Functions & Limits: functions & graphs, one-to-one, piecewise, even & odd, composition, and inverses of functions, base  $e$ , limits & continuity, limits involving infinity, tangent lines and rates of change; Derivatives: definition of the derivative and differentiability, rules for differentiation, derivative as rate of change – eg. velocity, trigonometric & inverse trigonometric derivatives, chain rule & implicit differentiation, derivatives of exponential and logarithmic functions, graphs of functions and derivatives, extreme value problems & optimization, related rates; Integrals: definite & indefinite integrals, integration by substitution, Integral as net change, fundamental theorem of Calculus, differential equations & initial value problems, using integrals to find areas and volumes. Students will have the option to write the AP Calculus exam in May (fee is \$135). If a student scores a 4 or 5 on the exam, they have the option to receive credit for a first-year university course. All AP courses are academically approved grade 12 courses for post-secondary admissions.

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# PHYSICAL EDUCATION DEPARTMENT



\*Students may only take one PE course per year in Grades 10, 11, and 12.

## **PHYSICAL AND HEALTH EDUCATION 9 BOYS/GIRLS**

Prerequisite: Physical and Health Education 8

Grade 9 PE is an extension of PE 8. Every student has opportunity to develop skills and knowledge in the following areas:

1. all activities and sports offered in the extracurricular program.
2. individual activities such as gymnastics, tennis and badminton.
3. fitness, health, nutrition. The course offers team games such as football, basketball, rugby, soccer, lacrosse and individual sports such as gymnastics, dance, badminton and weight training.

## **TEAM SPORTS 9 BOYS/GIRLS**

Prerequisite: recommendation and approval of PE department

This course focuses on volleyball, basketball, badminton, tennis and softball. The emphasis is on improving skill levels in these sports through repetition of advanced drills and game situations. Students will be exposed to fitness and circuit training techniques, refereeing clinics, scorekeeping clinics and some advanced team strategies. Students choosing this elective must have the desire to work hard at improving their personal skill levels as well as their knowledge of these games. This course is taken instead of Physical Education 9.

## **PHYSICAL EDUCATION 10 BOYS/GIRLS**

Prerequisite: PE 9 or Team Sports 9

Students complete the progressions of skills, rules and strategies in the core activity areas. It is hoped at this time that student knowledge of game rules and strategies combined with improved skills as a result of three years of study will enable them to participate confidently and enthusiastically in all activities.

## **TEAM SPORTS 10 BOYS/GIRLS**

Prerequisite: grade 9 PE course and department approval

Team Sports is an elective that students may select in Grade 9 and/or Grade 10. The course focuses on volleyball, basketball, badminton, tennis and softball. The emphasis is on improving skill levels in these sports through repetition of advanced drills and game situations. Students will be exposed to fitness and circuit training techniques, refereeing clinics, scorekeeping clinics and some advanced team strategies. Students choosing this elective must have the desire to work hard at improving their personal skill levels as well as their knowledge of these games.

## **FITNESS & WELLNESS 10 COED**

Prerequisite: grade 9 PE course and in grade 10

This course is for students who are interested in developing a personal and life long active and healthy lifestyle. The focus of this course is to introduce aerobic activity programs, such as DVD-based programs like Insanity, and personal wellness sessions including yoga and stretching. These programs will be broken down to teach proper techniques and timing to ensure life-long success for you and your body. There will also be a healthy living component to this course that will involve goal setting, both short and long term, and nutrition lessons. Students must be able to participate in high level aerobic activities to take this course.

### **FITNESS & WELLNESS 11 COED**

Prerequisite: a grade 10 PE course and in grade 11

This is a course for students who are interested in developing, or continuing to develop, a personal and life long active and healthy lifestyle. This course can be taken as a PE 11 elective. The focus of this course is to introduce aerobic activity programs, such as DVD-based programs like Insanity, or multi-dimensional programs like Cross-Fit. These programs will be broken down to teach proper techniques and timing to ensure life-long success for you and your body. There will also be a healthy living component to this course that will involve goal setting, both short and long term, and nutrition lessons. Each student will document their progress in all components and be able to present for their graduation requirements.

### **FITNESS & WELLNESS 12 COED**

Prerequisite: a grade 11 PE course and in grade 12

This course can be taken as a PE 12 elective. See Fitness & Wellness 11 for description.

### **STRENGTH & CONDITIONING 10 COED**

Prerequisite: PE 9 or Team Sports 9

Strength & Conditioning is available to students in grade 10 who have an interest in developing overall body strength and increasing general fitness levels. Students will engage in a variety of activities concentrating on weight lifting, cardiovascular conditioning, core development and flexibility exercises. This course introduces to students a greater understanding of exercise, physiology and muscular anatomy. Students will utilize both free weights and circuit training weight machines. This class will take an introductory look into weight training, training modes, program design, and how it fits into a complete fitness program. Video tapes and guest lectures may be a part of the program.

### **STRENGTH & CONDITIONING 11/12 COED**

Prerequisite: a grade 10/11 PE course and in grade 11 or 12

This course is designed for those students interested in being active and using fitness and conditioning as a lifelong fitness activity. Expanding on activities described in grade 10, this course will incorporate elements of aerobics, yoga, Pilates, nutrition, care and prevention of injuries and more. Students will develop and record their own wellness programs and fitness testing progress.

### **PHYSICAL EDUCATION 11 COED**

Prerequisite: a grade 10 PE course and in grade 11

Physical Education 11 is an elective course offered for senior students where the emphasis is placed on personalized fitness and developing a lifelong active and healthy lifestyle. Students must be able to participate in gym activities as well as several fitness classes at the Community Center. This includes Pilates, yoga, Zumba and pool activities such as water polo, aquafit, deep water rescue and masters swim. There will also be a technology component where students must actively engage in a class blog once a week.

### **PHYSICAL EDUCATION 12 COED**

Prerequisite: a grade 11 PE course and in grade 12

Physical Education 12 is a senior elective offered for grade 12 students with the emphasis on personalized fitness and developing a lifelong active and healthy lifestyle. Students must contribute to a weekly class blog on various topics in health and fitness. Students must be able to participate in various gym activities and fitness classes at the community center, including fitness activities in the pool. Students will maintain personal fitness through running and other cardio activities and through lessons in nutrition and wellness make appropriate choices, and set personal goals that enhance their quality of life.

### **AEROBIC CONDITIONING 10 COED**

Prerequisite: PE 9 or Team Sports 9

This course will focus on improving student's aerobic fitness through game oriented aerobic activities such as Manhunt, Capture the Flag, in-line skating, water polo, etc. A variety of methods of conditioning are utilized and each term includes one active health activity and fitness testing. All classes are conducted outside or in the Walnut Grove Community Centre during the winter months.

### **AEROBIC CONDITIONING 11/12 COED**

Prerequisite: a grade 10/11 PE course and in grade 11 or 12

The goals of AC 11/12 are identical to AC 10 but the focus has students take a leadership role. They will demonstrate knowledge of principles of training and plan and implement their own fitness schedule or program. It is expected that students in AC 11/12 will continue to improve their fitness through participation while assuming personal responsibility for balancing activity, nutrition, work, school, and sleep.

## **ELITE ATHLETIC DEVELOPMENT PROGRAM**

Prerequisite: by application and permission of PE department. Must be in grade 10, 11, or 12

The ELITE Athletic Development Program (ELITEadp) is created for students enrolled at Walnut Grove Secondary School who participate at an elite level of athletics at the community or high school level. The ELITEadp is a choice high performance training program at WGSS designed for student-athletes to support and enhance their overall academic and training environment.

The demands of sport require a lot of time and energy on young student-athletes. The WGSS ELITEadp is a program designed to provide student-athletes with a sport-specific training and learning environment during the regular school day; thus giving them more time for their own studies and rest.

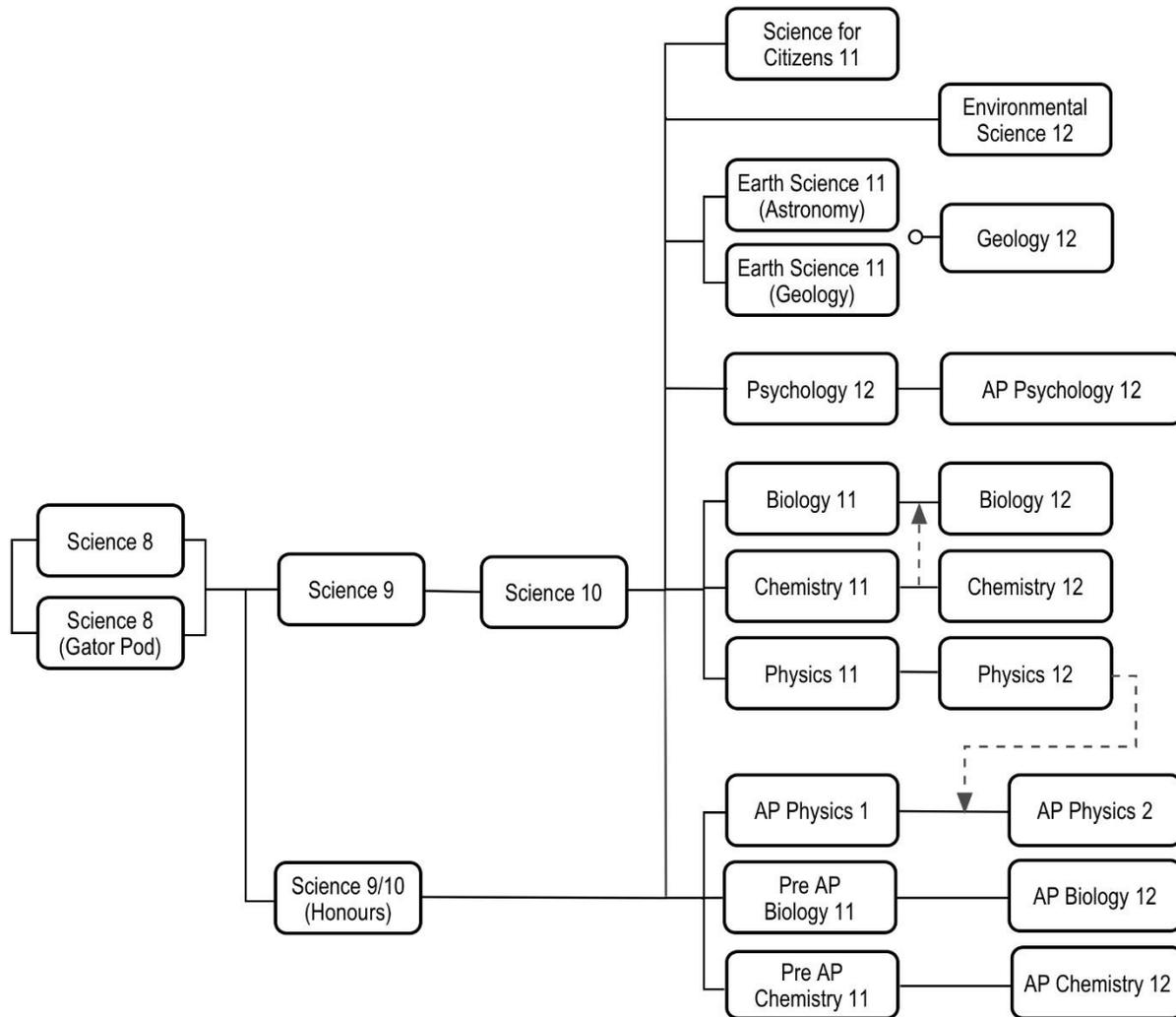
The Program instructor will closely monitor student progress by upholding high standards academically and athletically. Students will complete academic requirements and sport-specific training during the regular classroom schedule. Regular correspondence takes place between student-teacher and teacher-parent. The instructor meets regularly with students and parents/guardians to review academic and athletic progress and will modify student programs and individual fitness plans on an individual basis.

ELITEadp is strategically created for the student-athlete who wants to develop his/her full potential as a high performance athlete. Students in grade 10-12 who are successfully registered will be required to follow the regular class schedule, maintain academic standards for graduation requirements and follow their Individual Fitness Plan (IFP) established at the beginning of each year. Students will have the option of supervised self-directed study time to maintain their academic studies during their competitive phase of their sport.

The ELITEadp has a limited enrollment capacity. As a result, interested students will have to meet certain criteria and go through an application process.

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# SCIENCE DEPARTMENT



## **SCIENCE 9**

Prerequisite: Science 8

Processes of Science - Integrated throughout and assessed with each of the other organizers. Life Science: Reproduction. Physical Science: Atoms, Elements, and Compounds. Physical Science: Characteristics of Electricity. Earth and Space Science: Space Exploration.

## **SCIENCE 9/10 HONOURS**

Prerequisite: demonstrated ability in Science 8 and department recommendation

Science 8 students who demonstrate an outstanding ability in science and who are planning to pursue a career in a science related field may choose to take this course. Students must be prepared to be challenged with a course that will cover the Science 9 & 10 curriculum in one year. Students should be prepared to work independently on course work outside of class time that covers several key concepts from grade 9 astronomy and biology. Special presentations will be made several times throughout the school year covering this material. There is an emphasis on independent learning and applications of computer technology. Students who successfully complete this accelerated program will have the opportunity to take Physics 11 and/or 12, Chemistry 11 and/or 12 and/or Biology 11 and/or 12 in their next three years of school (grade 10-12). Entry decisions will be based on student ability and number of openings available.

## **SCIENCE 10**

Prerequisite: Science 9

1. Processes of Science - integrated throughout and assessed with each of the other organizers.
2. Sustainability of ecosystems – abiotic and biotic factors, bioaccumulation, equilibrium
3. Physical science: - chemical reactions and radioactivity, acids, bases, organic, inorganic compounds
4. Physical science: motion – velocity and acceleration
5. Earth and space science: energy transfer in natural systems – thermal energy and climate change
6. Earth and space science: plate tectonics – process, features, evidence of theory

## **BIOLOGY 11**

Prerequisite: Science 10 or Science 9/10 Honours

1. Introduction - safety, biochemistry, cells, classification
2. Evolution - evidence, theories
3. Microbiology - microscope, viruses, bacteria, protists
4. Mycology
5. Plant Biology (Botany)
6. Animal Biology (Zoology)
7. Ecology

This course satisfies the science requirement for graduation.

## **PRE-AP BIOLOGY 11**

Prerequisite: Science 10 or Science 9/10 Honours (B average or above). Completion of Chemistry 11 prior to Pre AP Biology 11 is highly recommended if possible.

This course is designed to be the first year of the two-year Advanced Placement program in Biology, and together with AP Biology 12 is equivalent to a first-year university course in Biology. The course focuses on cell structure and function, the molecular basis of life, genetics and the principles of classification. Tying these concepts together is the role evolution plays in the formation of the diversity of organisms found in the past and present. Students enrolling in Pre AP Biology 11 are also making a commitment to enroll in AP Biology 12 in the following school year.

## **BIOLOGY 12**

Prerequisite: Biology 11 or Chemistry 11

This course presents an intensive survey of human biology at the organ system, tissue, cellular and molecular level.

1. Methods and principles - experimental design, homeostasis
2. Cell biology
3. Human biology - form, function & physiology of human systems

This course is an academically approved grade 12 course for post-secondary admission.

## **AP BIOLOGY 12**

Prerequisite: Pre AP Biology 11

This course is the second year of the two-year Advanced Placement program in Biology. The course focuses on human anatomy and physiology, plant biology and ecology. Students will have the option to write the AP Biology exam in May (fee \$135). If a student scores a 4 or 5 on the exam, they have the option to receive credit for a first year university course. All AP courses are academically approved grade 12 courses for post-secondary admissions.

## **CHEMISTRY 11**

Prerequisite: Science 10 or Science 9/10H. It is recommended that Math 11 be taken concurrently.

1. Introduction - safety, measurement
2. Atoms, molecules and ions
3. Mole Concept - molarity
4. Chemical Reactions - balancing, stoichiometry
5. Atomic Theory
6. Solutions
7. Organic Chemistry

This course satisfies the science requirements for graduation.

### **PRE-AP CHEMISTRY 11**

Prerequisite: Science 10 or Science 9/10H (B average or above), recommended that Math 11 be taken concurrently.

This course is designed to be the first year of a two-year Advanced Placement Program in Chemistry. This course together with AP Chemistry 12 will cover all of the theoretical content and practical laboratories covered in BC Chemistry 11, BC Chemistry 12 and first-year College Chemistry. Students in Pre AP Chemistry 11 will cover the normal Chemistry 11 coursework at a slightly faster pace, with additional topics from the college level chemistry course integrated into appropriate points of the curriculum.

### **CHEMISTRY 12**

Prerequisite: Chemistry 11. It is recommended that Math 12 be taken concurrently.

1. Reaction Kinetics
2. Chemical Equilibrium
3. Solubility Equilibrium
4. Acids, Bases and Salts
5. Oxidation-Reduction

This course is an academically approved grade 12 course for post-secondary admission.

### **AP CHEMISTRY 12**

Prerequisite: Pre AP Chemistry 11. It is recommended that Math 12 be taken concurrently.

This course is designed to be the second year of a two-year Advanced Placement program in chemistry. This course, together with Pre AP Chemistry 11 will have covered all of the theoretical content and practical laboratories covered in BC Chemistry 11, BC Chemistry 12 and first-year College Chemistry. Students will have the option to write the AP Chemistry exam in May (fee \$135). If a student scores a 4 or 5 on the exam, they have the option to receive credit for a first year university course. All AP courses are academically approved grade 12 courses for post-secondary admissions.

### **SCIENCE FOR CITIZENS 11**

Prerequisite: Science 10 and in grade 11 or 12

How true is CSI? Can we predict tornados and earthquakes? Could Siri be dangerous? Science for Citizens is a course that looks at science in everyday life and will answer these, and many other questions about the world around us. This class gives students the opportunity to examine the impact of science on individuals, society, and the environment. Potential topics include forensic science, extreme weather events, personal technology, fake news, nutrition and medical advances and energy and sustainability. This course satisfies the science requirement for graduation.

### **EARTH SCIENCE 11 (ASTRONOMY)**

Prerequisite: Science 10 or Science 9/10 Honours

Students may take either Earth Science 11 (Astronomy) or Earth Science 11 (Geology), but not both.

This course is designed to be an introduction to some of the current and emerging aspects of space and space exploration. The students will focus on star mapping, the celestial sphere, the space race and current exploration of the solar system, a historical study of the early astronomers, life cycles of the stars, theories around the origin of the universe, a study of Mars and the possibility of terraforming its surface and the latest research and theories related to life in the universe. Students should have completed Math 10 in good standing.

This course meets the grade 11 Science requirements for Faculty of Arts.

### **EARTH SCIENCE 11 (GEOLOGY)**

Prerequisite: Science 10 or Science 9/10 Honours

Students may take either Earth Science 11 (Astronomy) or Earth Science 11 (Geology), but not both.

1. Geology - rocks & minerals, plate tectonics, volcanism & earthquakes, mountain building, diastrophism, erosion, geologic time
2. Meteorology - weather and atmospheric circulation
3. Astronomy - earth's motions in space, solar system, galaxies
4. Oceanography - ocean environments

This course meets the grade 11 Science requirements for Faculty of Arts.

### **GEOLOGY 12**

Prerequisite: an academic Science 11

Content: The course will consist of a balance of theory lessons and practical work in the laboratory, and will be backed up by a program of field-work - local field trips, visits to mineral and energy resource sites, to university museum collections, and longer trips to regionally important geological sites, such as Garibaldi Provincial Park. Geology 12 provides a very good basis for further study in the earth sciences, for careers in the Mining and Resource industries, and for more general science preparation. This course is an academically approved grade 12 course for post-secondary admission.

## **ENVIRONMENTAL SCIENCE 12**

Prerequisite: in grade 11 or 12

Environmental Science 12 is a scientific and humanitarian focused course that allows students to understand environmental issues and possible solutions through a global education lens. Students will be encouraged to participate in unique classroom and off campus experiences. Students will learn through a variety of methods: classroom discussions, presentations, and hands-on field work. Students will learn about and assist local and global environmental, aid, and relief organizations: Langley Environment Partners Society, Langley Food Bank, and Fraser Valley Gleaners. Guest speakers from Langley School District, LEPS, universities, and local members of parliament will aid students in building local and global awareness as well as community mindedness. Part of Environmental Science 12 involves planning, preparing, participating in and reviewing a humanitarian water sustainability trip.

## **PHYSICS 11**

Prerequisite: Science 10 *or* Science 9/10H and Foundations of Math 10

This is an introductory Physics course. The three main topics are Wave Behaviours, Mechanics (motion, forces, and the conservation of momentum and energy) and Relativity (Einstein's insight! - our perception of time and space change as objects travel close to the speed of light).

## **PHYSICS 12**

Prerequisite: Physics 11 and Pre-calculus 11

A more advanced course that builds on concepts developed in Physics 11. Topics include Vector Mechanics (Kinematics, Dynamics, Conservation Laws, Torque, and Circular Motion applied to Astronomy), as well as Electricity and Magnetism. Students will also have an opportunity to develop academic skills that will better prepare them for the college and university experience in Sciences or Engineering. This course is an academically approved grade 12 course for post-secondary admission.

## **AP PHYSICS 1**

Prerequisite: Science 10 or 9/10H, Foundations of Math 10, and English 10 at a high level

AP Physics 1 is the first of two college-level courses covering aspects of Physics 11, Physics 12, and first year university Physics. Topics include Vector Mechanics (Kinematics, Dynamics, Conservation Laws, Rotational Motion, and Circular Motion), Electricity, and Wave Behaviours. Students will also have an opportunity to develop academic skills that will better prepare them for the college and university experience in Sciences or Engineering. All AP courses are academically approved grade 12 courses for post-secondary admissions.

## **AP PHYSICS 2**

Prerequisite: Pre-calculus 11, AP Physics 1 *or* Principles of Physics 12

AP Physics 2 is the second of two college-level courses covering aspects of Physics 11, Physics 12, and first year university Physics. Topics include Thermodynamics, Fluid Dynamics, Advanced Electricity and Magnetism, Optics, Nuclear Physics and Quantum Mechanics. Students will have the option to write the AP Physics 1 *and* 2 exams in May (fee is \$135 per exam). Depending on their exam scores, students can earn credit for a first year university physics course. All AP courses are academically approved grade 12 courses for post-secondary admissions.

## **PSYCHOLOGY 12**

Prerequisite: must be in grade 11 or 12

Psychology 12 provides information relating to issues that all individuals encounter not only in themselves, but also in their relationships with others. Students will acquire insight into the complex determinants of behaviour and develop an appreciation of and understanding for individual differences. The core curriculum of Psychology 12 includes topics such as perspectives of psychology, the brain, motivation, stress, emotions, humour, perception, learning, developmental psychology, personality, abnormal psychology, and sexual motivation. Other areas selected for study will include those considered important in today's society, as well as meaningful for students in the course. This course does not meet the Science 11 requirement.

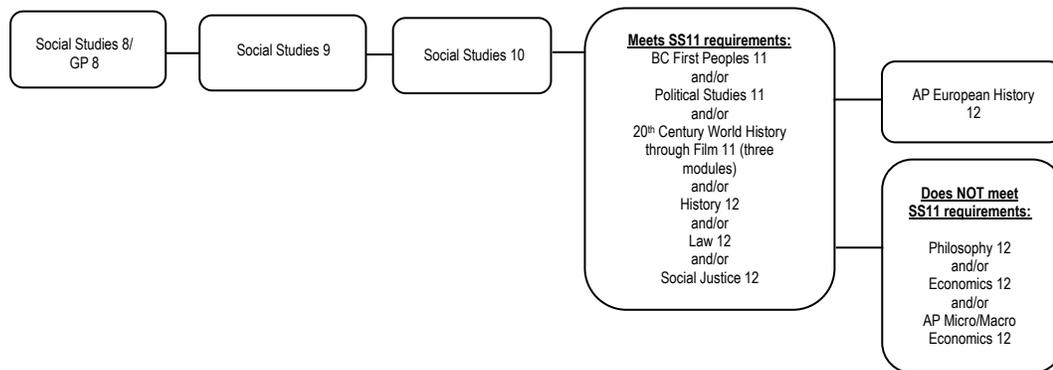
## **AP PSYCHOLOGY 12**

Prerequisite: Psychology 12 & Biology 11 (or permission of instructor)

It is intended for students who are interested in advanced placement standing which is equivalent to a first year psychology course at a university level. AP Psychology will introduce students to the systematic and scientific study of the behaviour and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. These include biological bases of behaviour, social psychology, sensation and perception, learning, cognition, motivation and emotion and abnormal psychology. Students will also learn about the methods psychologists use in their science and practice. The natural focus of taking the AP Psychology course is writing the AP Psychology exam in May (fee \$135). If a student scores a 4 or 5 on the exam, they have the option to receive credit for a first year university course. All AP courses are academically approved grade 12 courses for post-secondary admissions.

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# SOCIAL STUDIES DEPARTMENT



## **SOCIAL STUDIES 9**

Prerequisite: Social Studies 8

Social Studies 9 focuses on the historical development of the Americas and of Europe from 1750 to 1919. Students study the development of Canada through the lenses of colonization, revolutions, and industrialization. Students will study the social, economic and political factors that influenced the birth of Canada as a nation and its emergence on the world stage. They also continue to develop skills in analyzing sources of information, writing, research and geography.

## **SOCIAL STUDIES 10**

Prerequisite: Social Studies 9

Social Studies 10 is the study of Canada and World from 1919 to the present. Students analyze the various social, economic, political, geographic and global influences that have shaped Canadian identity. They also continue to develop skills in analyzing sources of information, writing, research and geography.

## **HUMAN GEOGRAPHY 11 (EDGE PROGRAM)**

Prerequisite: Social Studies 10 and enrolled in EDGE program

This course introduces students to the natural tension and harmony between the physical world and human society. It will uncover how human society shapes the surface of the earth and how nature shapes society. By taking this course through the EDGE program, students will learn the concepts through experiential hands-on learning. They will examine glaciers while trekking on a three-day hike through Garibaldi Provincial Park, appreciate aboriginal perspectives while canoeing the Fraser River and measuring rising sea-levels on Galiano Island. Students will learn about the methods and tools geographers use in their science and practice. Students will develop mapping skills and use GIS systems to analyze geospatial data. This course examines the essential questions of our world: How many people is too many? Is the distribution of the world's resources fairly distributed? How do cultures, religions, and conflict connect to the physical geography? Does globalization move us forward on the progression of human development?

## **BC FIRST PEOPLES 11**

Prerequisite: Social Studies 10

BC First Peoples 11 focuses on the diversity, depth, and integrity of the cultures of British Columbia's Aboriginal peoples. In emphasizing the languages, cultures, and history of First Nations peoples, the course addresses an important part of the history of British Columbia. Designed to introduce authentic Aboriginal content into the senior secondary curriculum with the support of Aboriginal peoples, the course provides an opportunity for BC students to acquire knowledge and understanding of the traditions, history, and present realities of BC Aboriginal peoples, as well as a chance to consider future challenges and opportunities. BC First Peoples 11 addresses the richness and diversity of First Nations languages and cultures by exploring them within their own unique contexts. It is intended to provide a conceptual foundation for all learners to develop an appreciation and respect for the similarities among and differences between the diverse cultures of the world. As such, it will help to promote understanding of First Nations peoples among all students.

## **POLITICAL STUDIES 11**

Prerequisite Social Studies 10

The aim of Political Studies 11 is to enhance students' abilities and willingness to participate actively in civic life. Political Studies 11 will continue to explore concepts learned in Socials 10, namely government and law. Political Studies 11 offers opportunities for students to form reasoned views, deliberate and debate relevant issues as well as work on socially relevant, real-life projects for the purpose to make positive change and enhance civic-mindedness.

## **HISTORY 12**

Prerequisite: Social Studies 10

History 12 investigates the birth of Communism, the WWII, the Holocaust, and the Arab-Israeli conflict in the Middle East. Students can expect personalized self-directed learning, choices to ignite learning, opportunities for critical learning, and collaborative group work. Technology will be infused into the course to help bolster these 21<sup>st</sup> century skills. Students will come to know some of the titans of the 20th century including Adolf Hitler, Joseph Stalin, Rasputin, Mohandas Ghandi, and Nelson Mandela. Students enrolled in this course should expect minimal instruction associated with textbooks; instead students should expect to learn using role plays, skits, debates, field trips, and mock trials. This course is an academically approved grade 12 course for post-secondary admission.

## **20<sup>th</sup> CENTURY WORLD HISTORY THROUGH FILM 11**

Prerequisite Social Studies 10

This course will be delivered in three modules taught by three different teachers.

- The History through Film module will introduce social studies students to a variety of historical perspectives that have shaped the world we live in while using film as the vehicle to explore these topics. This unique perspective will awaken the learner and allow the student to become engaged and understand that film is a powerful medium used to share our stories and our history.
- The History of the Holocaust module of the course will look at the causes and consequences of genocide with a focus on the Holocaust. Through the use of a variety of primary and secondary sources, including film, the class will examine the social, economic and political factors of this dark period of history and what the world has learned as a result.
- The History of Canadian Sport module will examine Canada's sporting heroes, greatest teams, and the greatest moments in Canadian sports history. The course will also examine how sports have influenced the economy, Canadian politics, warfare, gender equality, racial equality, First Nations citizens, and the relationship between French Canada and English Canada.

Students taking this course should expect a year-end, collaborative project that will act as the course's final assessment. Also, students taking this course will require parental permission as a number of films selected for viewing have an R rating.

## **AP EUROPEAN HISTORY 12**

Prerequisite: Social Studies 11

AP European History is a challenging college-level course for students who are interested in the academic study of history. Using primary sources, both fictional and non-fictional, students will delve deep into the past to find the threads that connect us to our history.

The study of European history since the Renaissance helps us to understand the development of our modern world and the issues we struggle with today locally, nationally and globally. This class introduces students to the political, economic, religious, social, intellectual, and artistic trends that shaped Europe from 1450 to the present. We will study the basic narrative of events, identify principle themes in history, analyze historical evidence and historical interpretation, and express historical understanding in writing. The course is structured around the investigation of five course themes: interaction of Europe and the World, Poverty and Prosperity, Objective Knowledge and Subjective Visions, States and other institutions of power, and Individuals and Society. Classroom activities will include discussions, informal debates, primary source analysis assignments, quizzes, tests and essays.

As part of the Advanced Placement program, this course prepares students for the AP European History exam. Students will have the option to write the AP exam in May (fee \$135); depending on the exam score, they may have the option to receive credit for a first year university course. All AP courses are academically approved grade 12 courses for post-secondary admissions.

## **LAW 12**

Prerequisite: Social Studies 10

Law 12 explores Canadian law with a focus on legal issues that are relevant to people's everyday lives. Students will investigate fundamental legal concepts as we learn about our legal roots, Civil Law (Contract, Family, Tort, etc.), Criminal Law and our legal rights and responsibilities. Students will use critical-thinking, inquiry and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways including: case studies, research, mock trials and debates. This course is an academically approved grade 12 course for post-secondary admission.

## **SOCIAL JUSTICE 12**

Prerequisite: Social Studies 10

Be the change! Challenge yourself to be an educated, fair and open-minded global citizen! Social Justice 12 allows students to explore and analyze social justice and human rights issues. Students will explore root causes of injustices and strive to develop practical solutions to a wide variety of issues, from discrimination and poverty to environmental crises in Canada and around the world. In this research and project-based course, students will have the opportunity to broaden their knowledge base on a variety of issues and the people working on these issues. Students will be able to delve deeper into the topics they are most passionate about. Course content and possible travel opportunities will be developed in partnership with Insight Global Education ([www.insightgloaleducation.com](http://www.insightgloaleducation.com)). See Ms. Hoodikoff (room 246) for course outline and more information. This course is on the list of academically approved Grade 12 courses for admission to most post-secondary institutions.

## **PHILOSOPHY 12**

Prerequisite: must be in grade 11 or 12

Socrates encouraged us to “Know Thyself.” Philosophy 12 is a course designed to introduce the basic ideas and methods of major world philosophies. Students will focus on topics such as the Nature of Reality, Limits of Knowledge, Morality, Eastern and Western Philosophy, Mythology and World Religions. The discipline of philosophy builds higher level thinking skills, sophisticated reading skills and effective written and oral communication skills. These skills are highly transferrable to other disciplines and learning environments, including the exercise of our charter rights in a democracy like Canada’s. Emphasis is placed on well-informed thinking and intelligent, capable discussion (both written and oral) of the topics presented. Students will be expected to participate in discussion, presentations, projects and written essays as we learn to process ideas that can have more than one right answer. This course is on the list of academically approved Grade 12 courses for admission to most post-secondary institutions.

## **ECONOMICS 12**

Prerequisite: in grade 11 or 12

This course provides students with the opportunity to analyze the effects of economic activity on their society, the nation and the global community. It will give them a deeper understanding of the principles behind government and social policies and exchange of goods and services within market and non-market oriented sectors. Topics include: economic theories, the role economics plays in personal, professional and business decisions, the study of current economic developments, the role of markets, capital formation, trade and currency exchange rates, trends and issues which enable students to improve their educational career choices. Students will be able to take advantage of global career opportunities when they understand how the global marketplace functions. This course is theory and project based with emphasis on the application of researching evaluation, problem solving and technical skills to produce work of a high business standard. This course is an academically approved grade 12 course for post-secondary admission.

## **AP ECONOMICS – Micro/Macro**

Prerequisite: in grade 11 or 12. Students should possess basic mathematics and graphing skills.

As part of the Advanced Placement program, this course prepares students for the AP Microeconomics and AP Macroeconomics exams. Students will have the option to write the AP exams in May (fee \$135/exam), depending on the exam score, they may have the option to receive credit for a first year university course. **Students will take both courses in one block.**

### **AP Microeconomics**

AP Microeconomics is an introductory college-level course that focuses on the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students’ familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of the government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts and data to analyze, describe and explain economic concepts. All AP courses are academically approved grade 12 courses for post-secondary admissions.

### **AP Macroeconomics**

AP Macroeconomics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students’ familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts and data to analyze, describe and explain economic concepts. All AP courses are academically approved grade 12 courses for post-secondary admissions.

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# **STUDENT AIDE**

## **STUDENT AIDE 11/12**

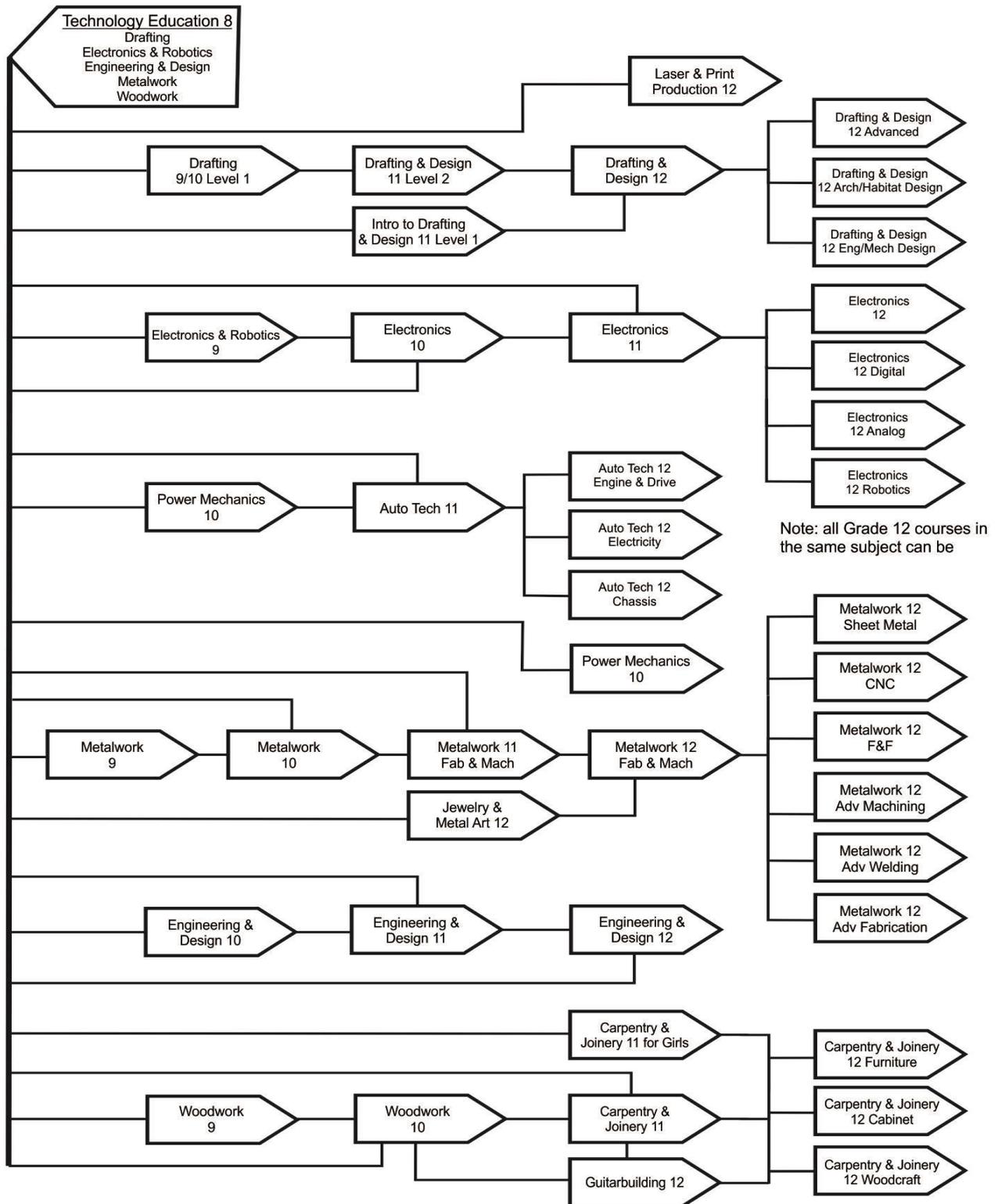
Prerequisite: Students must be in grade 11 or 12

Student Aide 11/12 offers students an opportunity to work in a classroom under a teacher's guidance and supervision, assisting, engaging and encouraging the students with their class-related schoolwork and helping them develop the skills necessary for success in the classroom. In addition, Student Aides will also have an opportunity to provide assistance to the teacher in improving the classroom climate and in a variety of organizational means.

Students can choose to be Student Aides in a variety of different subject areas working with a teacher with whom they feel comfortable. Students who are interested in being a Student Aide must have a Student Aide Application Form fully completed, including the potential teacher and the parent signature. This application form is then returned to the Counselling Centre and if the placement works, the Student Aide block will be added to the student's timetable.

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# TECHNOLOGY DEPARTMENT



## **ENGINEERING AND DESIGN 10**

*Counts as an ADST or Arts Education elective*

Prerequisite: in grade 9 or 10

Engineering and Design 10 will continue to help students develop technological literacy through the use of tools, welding technologies, machines and problem solving skills. Students will be challenged with a variety of projects and challenges, such as welding a truss bridge, designing a puzzle cube, electric slot car design/sculpting using clay, building Rube Goldberg machines, and the famous tethered airplane project. Engineering and Design will be of interest to both boys and girls that enjoy working with their hands, problem solving, and truly thinking outside-the-box. Grade 9 and 10 students will be eligible to register for Engineering and Design 11 upon successful completion of this course.

## **ENGINEERING AND DESIGN 11**

Prerequisite: Engineering and Design 10, or in grade 11

This course is a continuation of Engineering and Design 10. The Engineering and Design 11 course will expand on concepts related to design, using different materials, tools, processes and technologies in product manufacturing. Major focuses of the course are on VEX robotics – sensor manipulation and programming -, Introduction to 3D Design & Printing and building a concrete canoe. Projects will involve the use of various software programs, including 3D Modeling, 3D Printing, Mechanical CAD, and CNC. Students will be challenged with a variety of projects with a focus on finding solutions to real world issues and problems. However, the course will continue to have a core focus of a hands-on building approach. Engineering and Design 11 will be of interest to any students that want to develop and refine practical workplace skills.

## **ENGINEERING AND DESIGN 12**

Prerequisite: Engineering and Design 11, or in grade 12

The Engineering and Design 12 course is the culmination of the Engineering & Design program at WGSS. Students will continue to be challenged with a variety of teacher and/or student directed projects. Major focuses of the course are on 3D design and printing, Laser cutting and engraving, VEX robotics, and others. Projects will involve the use of various software programs, including 3D Modeling, 3D Printing, Mechanical CAD, and CNC. Engineering and Design 12 will be of interest to any students that may want to pursue post-secondary training for careers such as, technologists, engineers and industrial designers.

## **DRAFTING & DESIGN (Level 1)**

*Counts as an ADST or Arts Education elective*

Prerequisite: none, open to all students. Grade 9 and 10 students will get a grade 10 credit and grade 11 students will get a grade 11 credit upon successful completion of the course.

This is a Computer Drafting and Design course in which students will work with three different design programs. Using Google Sketchup, students will learn to 3D model furniture, interior designs, and architectural models. Using AutoCAD, students will learn to draw 2D mechanical and architectural technical drawings, including site and house plans. And using REVIT Architecture, students will learn about BIM modeling to create full technical 3D architectural models. Many projects will be color-printed to take home. This course will be of interest to those who like to draw, design, enjoy computers, and may already be considering careers in engineering, architecture, or a design related field. Any students who took Drafting & Design Level 1 in grade 9 or 10 will register in DD 11 Level 2. Any students who took Drafting & Design Level 1 in grade 11 will register in DD 12.

## **DRAFTING & DESIGN 11 (Level 2)**

Prerequisite: Drafting & Design Level 1

For those who have successfully completed Drafting & Design Level One. In this course students will learn advanced AutoCAD features, and more advanced 3D solid modeling using REVIT. A 2D civil engineering project (Sub-Division), a 3D mechanical, and a 3D architectural project are some of the major projects. By the end of this course students should be considering either mechanical or architectural Drafting & Design as their primary focus.

## **DRAFTING & DESIGN 12 (Level 3)**

Prerequisites: Drafting & Design 11

Students will continue to develop and refine skills learned in their previous drafting & design courses. Students will be given the opportunity to specialize in the field of their choice by taking on related design project challenges.

## **DRAFTING & DESIGN 12 - ADVANCED (Level 4)**

Prerequisites: Drafting & Design 12

Continuing to develop and refine skills learned in previous drafting & design courses. Students will be specializing in the field of their choice.

### **DRAFTING & DESIGN 12 - ARCH/HABITAT (Level 4)**

Prerequisites: Drafting & Design 12

This course will focus specifically on architectural drafting using skills and knowledge learned from previous courses. House design, site planning, urban development, commercial buildings, subdivision planning, recreational design and more will be included.

### **DRAFTING & DESIGN 12 - ENG/MECH DRAFTING (Level 4)**

Prerequisites: Drafting & Design 12

This course will focus specifically on engineering and mechanical drafting using skills and knowledge learned from previous courses.

### **ELECTRONICS AND ROBOTICS 9**

*Counts as an ADST or Arts Education elective*

Prerequisite: none

This is a full year introductory course in the exciting field of Electronics and Robotics. Students will design and assemble robots to compete in various challenges. Students will also look at how basic electronic components work, and how those components are assembled on a circuit board. Soldering, wire stripping and circuit board etching will be demonstrated so students can take home a number of electronic projects. Projects will be determined by the instructor at the beginning of the school year.

### **ELECTRONICS 10 (BEGINNER OR ADVANCED)**

Prerequisite: none for Beginner, Electronics and Robotics 9 for Advanced

This course builds on the fundamentals of Electricity and Electronics learned in previous courses. Advanced Bread-boarding skills, circuit board assembly, design skills, and construction techniques will be covered. Beginner and Advanced students will have the opportunity to choose from a vast variety of projects. The opportunity to build a personal home alarm system is one of the many options available to students.

### **ELECTRONICS 11 (BEGINNER OR ADVANCED)**

Prerequisite: in Grade 11 or 12 for Beginner, Electronics 10 for Advanced

This course provides the opportunity for Grade 11 or 12 students to learn the fundamentals of Electricity and Electronics without having any previous Electronics experience. Bread-boarding, circuit board assembly, design skills, and construction techniques will be covered so students can complete a variety of projects and compete in challenges. Residential wiring techniques and practices will be also covered in accordance with the Canadian Electrical Code.

### **ELECTRONICS 12**

Prerequisite: Electronics 11 or permission of instructor

Electronics 12 is an advanced course in Electronics / Electrical theory and project construction. Students will participate in self-directed options and be given the opportunity to complete projects in areas of their own interest. Advanced residential wiring techniques and practices will also be covered in accordance with the Canadian Electrical Code.

### **ELECTRONICS 12: Robotics**

Prerequisite: Electronics 11 or permission of instructor

Electronics 12 Robotics may be taken concurrently with Electronics 12. This course will explore the exciting field of robotic applications. Self-directed options will be given to students who may use this course to explore areas of interest within the Electronics/Robotics field.

### **ELECTRONICS 12: Digital**

Prerequisite: Electronics 11 or permission of instructor

Electronics 12 Digital may be taken concurrently with Electronics 12. Advanced Digital projects and theory are the focus in this course, where self-directed options will be given to students who may use this course to explore areas of interest within the Electronic Digital field.

### **ELECTRONICS 12: Analog**

Prerequisite: Electronics 11 or permission of instructor

Electronics 12 Analog may be taken concurrently with Electronics 12 Advanced Analog projects and theory are the focus in this course, where self-directed options will be given to students who may use this course to explore areas of interest within the Electronic Analog field.

## **POWER MECHANICS 10**

*Counts as an ADST or Arts Education elective*

Prerequisite: in grade 9 or 10

This is an introductory mechanics course in which students will learn about 2 and 4 stroke engines, including service and repair. Students will have an opportunity to disassemble and reassemble an entire full scale automotive engine, whilst learning about basic engine principles. Along with engine theory and labs, students will also start working on vehicles, performing tasks such as changing a tire, doing an oil change, brake inspections and much more. The course may also cover alternative fuels/energies, other types of engines, hydraulics and aerodynamics. Power Mechanics will be of interest to both boys and girls that enjoy working with their hands, problem solving, and repairing mechanical devices. Grade 9 and 10 students will be eligible to register for Auto 11 upon successful completion of the course.

## **AUTO TECHNOLOGY 11**

Prerequisite: in grade 11 or Power Mechanics 10

Auto Technology 11 is designed for students interested in auto repair and for students who wish to enter one of the many trades related to the automotive or transportation fields. This course covers: proper care and use of tools and shop equipment; chassis lube and maintenance; brake systems; manual and power steering; suspension systems; automotive engines and power train basics; proper diagnostic procedures for troubleshooting and repair; and automotive parts and ordering procedures.

## **AUTO TECHNOLOGY 12 Engine & Drive Train**

Prerequisite: Auto Technology 11

This course focuses on the power train. Students will inspect, service, and maintain engines, engine support systems and drive line components.

## **AUTO TECHNOLOGY 12 Electrical & Electronic Systems**

Prerequisite: Auto Technology 11

Students will inspect, service and test the ignition, charging, starting, lighting and accessory systems.

## **AUTO TECHNOLOGY 12 Chassis**

Prerequisite: Auto Technology 11

Students will inspect and repair brake, suspension and steering systems as well as tires and wheels.

## **METALWORK 9**

*Counts as an ADST or Arts Education elective*

Prerequisite: none

This is a great class for beginners. You'll learn to join metal using oxyacetylene by welding, brazing and soldering. You'll also learn to slice through metal with the hot flame of a torch or with a plasma cutter. Develop your technique with hand tools and become more familiar with power tools as you complete a number of small projects.

## **METALWORK 10**

Prerequisite: in grade 10 or 11

This class will teach you how to improve your welding skills, plan a project and deal with unexpected problems when they arise. Particular attention will be paid to proper fabrication and finishing techniques. Several small projects will be assigned and different techniques will be discussed over the course of the class. Students are also welcome to work on their own projects (with teacher's permission). Grade 10 and 11 students will be eligible to register for Metalwork 11 upon successful completion of the course.

## **METALWORK 11 – Fabrication and Machining**

Prerequisite: in grade 11 or 12,

After learning the fundamentals come and take on more involved projects and designs in this course. This class is designed to offer students specialized skills that are used in the metal fabrication industry, and can be applied to either practical or creatively inspired projects. Students will take on the horizontal band saw, the sheer, the break, finishing techniques, using the drill press, the metal lathe and of course brushing up on your welding skills.

## **METALWORK 12 – Fabrication and Machining**

Prerequisite: taken or currently taking Fabrication and Machining 11

Take your concept from a sketch to a finished piece. You will learn about proper layout techniques, structural basics, and efficient production methods, and how to use the specific equipment needed to turn your design into reality. You will be given the tools and encouragement you need to tackle your most challenging ideas.

### **METALWORK 12 - Forging and Foundry**

Prerequisite: taken or currently taking Fabrication and Machining 11

Develop your basic blacksmithing skills and learn techniques such as scroll making, basic tool making and heat-treating. A foundry is a place where molten metal is poured into molds. In the WGSS foundry, you can learn all the steps that go into making a piece of cast metal, from forming a mold to creating a patina on a finished piece.

### **METALWORK 12 – Jewelry/Metal Art**

Prerequisite: in grade 11 or 12

Whether you are a beginner or an experienced craftsperson, our jewelry program is the place for you. This class will help you stretch your creative mind beyond the basics to transform your personal visions for your work into reality. Metal art promotes creative expression, reuse of materials, and innovative design.

### **METALWORK 12 – CNC Processes**

Prerequisite: taken or currently taking Fabrication and Machining 11

This course provides training in basic machining skills as well as basic computer CNC machining skills. This course covers basic concepts of 2D and 3D geometry creation and editing in Gibbscam. Tool path creation, tool path editing, post processing, job setup and part machining are covered. The student will gain a basic knowledge and understanding of engineering drawings. Students will learn to effectively communicate by reading and creating sketches of an object in several views.

### **METALWORK 12 – Sheet Metal**

Prerequisite: taken or currently taking Fabrication and Machining 11

Sheet Metal is one of the fundamental forms used in metalworking, and can be cut and bent into a variety of different shapes. Countless everyday objects are constructed of this material. This class is an opportunity to become familiar with a number of forming processes such as: cutting, pressing, rolling, stamping, bending, and etching while completing a number of projects.

### **METALWORK 12 – Advanced Machining**

Prerequisite: taken or currently taking Fabrication and Machining 12

In the machine shop you'll learn the capabilities and scope of the milling machine and the lathe, which are the cornerstones of a machine shop and among the most complicated tools to operate. With these two tools, you can make almost anything out of metal with precision and accuracy. You'll learn about materials, machine design, drafting, cutting feeds and speeds, tooling, and precision measurement and you will use the machines to fabricate simple projects.

### **METALWORK 12 – Advanced Fabrication**

Prerequisite: taken or currently taking Fabrication and Machining 12

In this class students learn techniques that are commonly used in the metal fabrication industry. Students get experience using the sheet roller, the circle cutter, hydraulic press, basic Hossfeld bending techniques, the hole-punch and the pipe bender. Learn how to find odd angles, cut them, and fit them together; how to miter a pipe on both ends and create coping to fit it to another pipe, and all you wanted to know about abrasive tools.

### **METALWORK 12 – Advanced Welding**

Prerequisite: taken or currently taking Fabrication and Machining 12

Joining metal together through heat is a fabrication process used since the Bronze Age, and new technology continues to develop. We focus on four different kinds of welding: oxyacetylene gas welding, arc or stick welding, metal inert gas (MIG) welding and tungsten inert gas (TIG). This class will inspire and guide you to the type of welding most appropriate to the project you want to complete or the direction you want to go. Challenging exercises and projects will allow you to gain the confidence to consider yourself a competent welder. This class will focus on precise welding, minimizing grinding and finishing. This is an advanced class so bring ideas for projects that are feasible given the time and equipment available.

### **WOODWORK 9**

*Counts as an ADST or Arts Education elective*

Prerequisite: none

Woodwork 9 is an introductory program that involves various aspects of woodwork technology and cabinet construction. Students will study, design and construct a number of projects within specific design guidelines. Emphasis will be given to: awareness and application of wood design; working knowledge of wood (wood species, products, structures, fasteners, and finishing application); safe and correct use of all power equipment and hand tools; a responsible attitude towards fellow students; and maintenance and responsible care of equipment.

## **WOODWORK 10**

Prerequisite: none

Students will learn both hand tool and machine processes to safely design and make a variety of projects. Topics will include shop safety, measurement, design, joinery, wood properties, carving, and finishing.

## **CARPENTRY & JOINERY 11**

Prerequisite: in Grade 11 or 12

No woodworking experience necessary. Carpentry and Joinery 11 is intended to offer a combination of knowledge and hands-on skills expected by employers and post-secondary institutions. Successful Carpentry and Joinery 11 students will obtain fundamental skills sets and knowledge for personal goals, or to prepare for a career in either the Carpentry or Joinery trades. Students will have the opportunity to understand the maintenance and operation of tools and equipment and the use of assorted materials and finishes. This experience will enable students to build and appreciate the benefits of creating projects constructed from wood. Costs: Project materials are provided to the students to meet the outcomes of the course. Students may wish to pay for additional supplies if they would like to upgrade the quality of materials and size of the projects to fit their own specific needs.

## **CARPENTRY & JOINERY 11 – Woodworking for Girls**

Prerequisite: in grade 10, 11 or 12

No woodworking experience necessary. Do you like being creative and working with your hands? This course is designed for girls who want to get back into the shops and learn some skills in a comfortable environment. Learn basic and advanced skills of the woodshop in this fun course. Projects may include: jewelry boxes, picture frames, funky room decor, and individually designed projects. Remember: Bring your friends! Costs: Project materials are provided to the students to meet the outcomes of the course. Students may wish to pay for additional supplies if they would like to upgrade the quality of materials and size of the projects to fit their own specific needs.

## **CARPENTRY & JOINERY 12: Cabinet Construction**

Prerequisite: Carpentry and Joinery 11, may be combined with any other CJ12 course

Carpentry and Joinery 12 is intended to offer the necessary knowledge, skills and attitudes expected by employers and post-secondary institutions. Students will learn advance woodworking skills and techniques covering all tools and machines found in a woodshop. Students will continue to further the skills and processes learned from Carpentry and Joinery 11. Advanced theory of cabinet construction will be covered throughout the year and will include: measurement and layout tools, material calculations, material identification, advanced hand tool and power tool techniques, basic and advanced cabinet construction, fasteners, and product finishing. Students will be encouraged to research and build a major take-home project. Costs: Project materials provided to the students to meet the outcomes of the course. Students may wish to pay for additional supplies if they would like to upgrade the quality of materials and size of the projects to fit their own specific needs.

## **CARPENTRY & JOINERY 12: Furniture Construction**

Prerequisite: Carpentry and Joinery 11, may be combined with another CJ12 course

Carpentry and Joinery 12 is intended to offer the necessary knowledge, skills and attitudes expected by employers and post-secondary institutions. Students will learn advance woodworking skills and techniques covering all tools and machines found in a woodshop. Students will continue to further the skills and processes learned from Carpentry and Joinery 11. Advanced theory of furniture construction will be covered throughout the year and will include: measurement and layout tools, material calculations, material identification, furniture history, furniture design and construction, fasteners, advanced hand tool and power tool techniques, advanced joinery construction as well as finishing techniques. Students will be encouraged to research and build a major take-home project. Costs: Project materials provided to the students to meet the outcomes of the course. Students may wish to pay for additional supplies if they would like to upgrade the quality of materials and size of the projects to fit their own specific needs.

## **CARPENTRY & JOINERY 12: Woodcraft Products**

Prerequisite: Carpentry and Joinery 11, may be combined with another CJ12 course

Carpentry and Joinery 12 is intended to offer the necessary knowledge, skills and attitudes expected by employers and post-secondary institutions. Students will learn advance woodworking skills and techniques covering all tools and machines found in a woodshop. Students will continue to further the skills and processes learned from Carpentry and Joinery 12. Theory of wood carving will be emphasized throughout the year and will include: wood species used in carving, carving tools, sharpening, hand and power tools, finishing materials and the design process. Costs: Project materials provided to the students to meet the outcomes of the course. Students may wish to pay for additional supplies if they would like to upgrade the quality of materials and size of the projects to fit their own specific needs.

## **GUITAR BUILDING 12**

Prerequisite: Woodwork 10 or may be combined with Carpentry & Joinery 11 or with Junior instructor's permission

Students will have the opportunity to design and make either an electric guitar or electric bass guitar. Topics will include design, function, material and component selection, machine and hand tool processes, shop safety, finishing techniques, guitar electronics, set-up and tuning.

## **LASER & PRINT PRODUCTION 12**

Prerequisite: must be in grade 11 or 12

This is an exciting new course at WGSS. Using computers as the design tool, a new state-of-the-art laser engraver/cutter, vinyl cutter, and various printers, students will design and create laser engravings including: unisex jewelry, award plaques (in wood and metal), door and desk signs, leather engravings, glass and plastic engravings, a wide variety of decorative and functional wood engravings, and much, much more. Students will also design and create posters, brochures, and vinyl signs (using the vinyl cutting machine). This course will be of interest to those that enjoy computers, designing, and being creative. This will be a school service course producing a wide range of media/products for use by students and staff.

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**You will find detailed information about Walnut Grove Secondary School on our website, [www.wgss.ca](http://www.wgss.ca). Please go to [wgsscounselling.weebly.com](http://wgsscounselling.weebly.com) to find out more about:**

- Course Planning Guide for seniors, juniors, and international students
- Registration forms and course codes for grades 9, 10, 11, 12
- Scholarship Handbook
- Scholarship information
- Post-Secondary Handbook 'Grade 12 at a Glance'
- Career development information
- Volunteer Opportunities
- Grad Transition program packages
- Links to Post Secondary
- Grad Newsletter



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