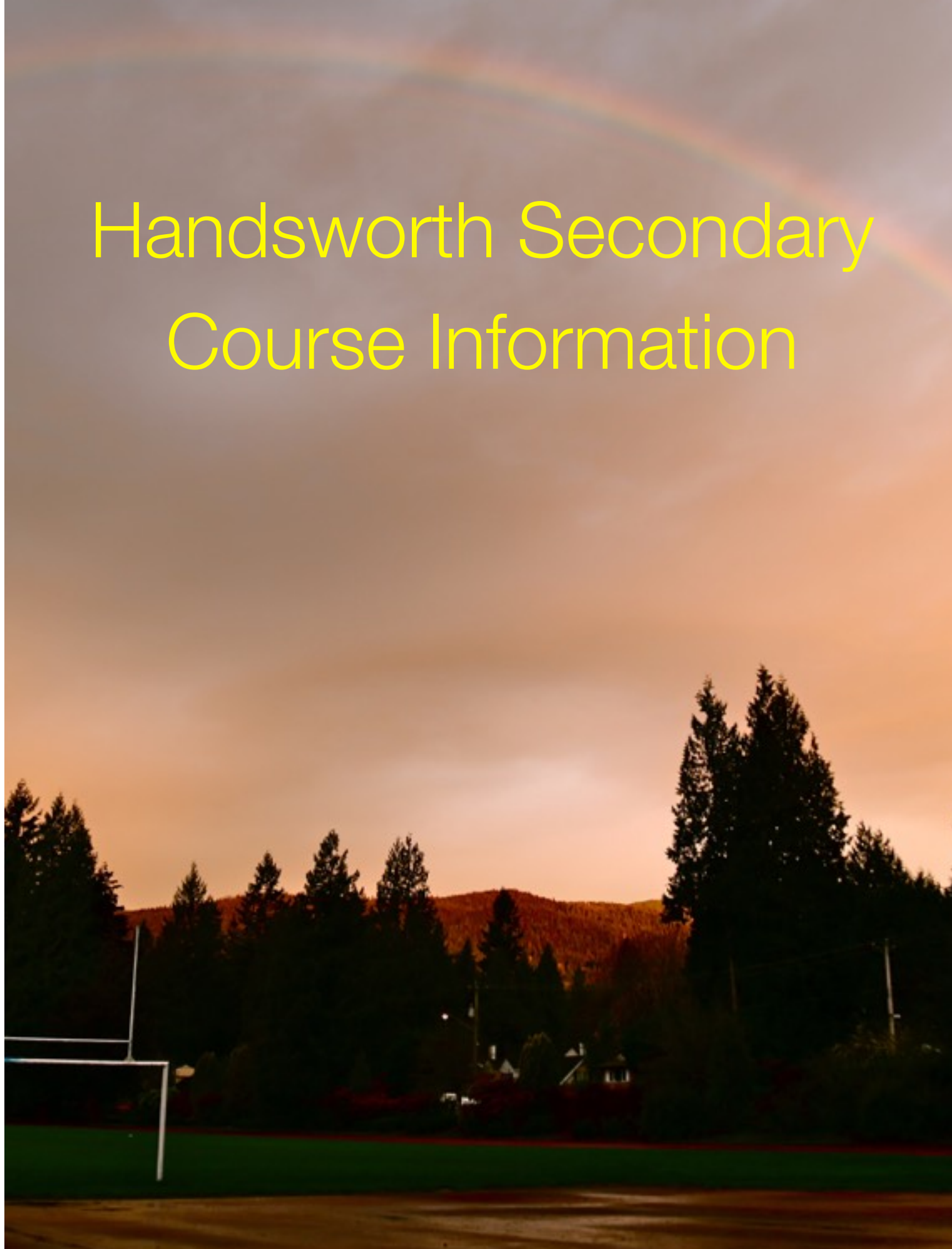


Handsworth Secondary Course Information



Course Selection



ORANGE SHIRT DAY

Handsworth students and staff join the hundreds of thousands of other Canadian in wearing orange in honouring the children who survived the Indian Residential Schools and remembering those that didn't.

If you are unfamiliar with the story or origins of Orange Shirt Day, here is the story behind orange shirt day...

"I went to the Mission for one year. I had just turned 6 years old. We never had very much money, and there was no welfare, but somehow my granny managed to buy me a new outfit to go to the Mission School in. I remember going to Robinson's store and picking out a shiny orange shirt. It had eyelets and lace, and I felt so pretty in that shirt and excited to be going to school! Of course, when I got to the Mission, they stripped me, and took away my clothes, including the orange shirt. I never saw it again, except on other kids. I didn't understand why they wouldn't give it back to me, it was mine! Since then the colour orange has always reminded me of that and how my feelings didn't matter, how no one cared and how I felt like I was worth nothing. I finally get it, that the feeling of worthlessness and insignificance, ingrained in me from my first day at the mission, affected the way I lived my life for many years...I want my orange shirt back!"

The course offerings in the high school years are designed to develop a sound foundation in the core subject areas and, at the same time, provide opportunities to explore other areas of interest. When selecting electives in Grades 8, 9, and 10, parents and students are encouraged to consider courses in a variety of subject areas. Although the Senior Secondary School years provide the opportunity of greater specialization, parents and students should be guided by the belief that a broad liberal education provides better preparation for higher education and the future.

Considerable time and effort go into the development of the school schedule; it is important to understand that the schedule is based upon student course selections. It is important that parents and students give careful thought to the process of course selection.

To the best of our knowledge these courses are the course offerings for the 2020/2021 school year. These offerings are subject to changes based on funding, staffing, student demand, expertise of staff and school district and Ministry guidelines.

Once selections have been made, it is expected students will abide by their choices. Final course offerings are dependent on staffing and student demand.

STUDENT COURSE LOADS

We strongly encourage students to take 8 courses in every grade throughout their high school career.

- Some students in grades 8, 9 and 10 may take more than 8 courses. E.g. Music and Distributed Learning.
- Students in Grade 11 & 12 may apply for a study block.

There are course options that provide a more flexible approach, allowing students to retain a study block or take an extra elective within the

timetable. These courses are: Work Experience, Peer Tutoring, Jazz Band, Choir or Distributed Learning courses.

The Course Selection Booklet contains many opportunities for students in all grades to expand their horizons. We encourage students to seek out and to explore the elective options available to them.

PLAN YOUR COURSE OF STUDY CAREFULLY!



Chapter 2

Grade 8



Welcome and a big “Hello” to all of you future Royals out there!

High school is really a new beginning: it’s a mass intersection, every path crisscrossing each other, and it is completely up to you to make your own call on which way you’ll go in your life. It’s a turning point in your academic studies, all of a sudden subjects just got that much harder. It’s a brand new social setting, a total of 1500 students from across the North Shore and around the world gather at Handsworth to make and share precious memories throughout their stay. It’s a whole new world, filled with wild opportunities and extra-curricular involvements: arts or athletics, dance or drama, band or strings, clubs or community services, whatever your passion may be, there is always a place for you in our immensely diverse school. It’s a place where you’ll spend the next 5 years feeling belonged to.

What does it mean to be a Royal? It’s not simply a title given to all students at Handsworth, it’s more so the responsibilities that come with it. Being a Royal means that you are morally obligated to honour and protect that title by showcasing the best of yourself, or, as the school mission statement quotes: by “developing strong self-esteem, emotional well-being, a respect for others, a desire for life-long learning, and a strong career awareness in a climate that promotes responsible learning”.

Each one of you are of great capacity to do amazing things in life, but with great power comes great responsibility. In the future, I want you to all remember that what matters the most is how much you give to this world rather than how much you gain from others. At the end of your grade 12 year, when you walk out of that front door of Handsworth for what’s possibly the very last time, I want you to be able to say: “I’m proud of what I’ve accomplished so far, I’ve left no regrets, and I’m ready to take on what the world has for me.”

I can’t wait for you to embark on this incredible journey,

Kevin Wang

Handsworth Student Council President 2019-2020





Grade 8 Course Information

Handsworth Secondary offers both an English Language and French Immersion program. Student course selections are determined by which program students participant in.

All Grade 8s in the English Program and the French Immersion are required to take the following courses:

Grade 8 English Program	Grade 8 French Immersion Program
Humanities 8: English	English Language Arts 8
Humanities 8: Social Studies	Sciences Humaines 8
French 8	Français Langue 8
Science 8	Science 8 or Sciences Naturelles 8
Mathematics 8	Mathematics 8
Physical & Health Education 8	PE 8 or Education Physique & Santé En Plein Air 8
Applied Design Skills and Technology	Applied Design Skills and Technology
And one of the following electives	And one of the following electives
Fine Arts 8 (Drama/Art)	Fine Arts 8 (Drama/Art)
Concert Band 8	Concert Band 8
Strings 8	Strings 8
Choir 8 (can be taken as a 9th course)	Choir 8 (can be taken as a 9th course)

Grade 8

Required Courses

Humanities 8 (English program)

Humanities 8 is an integrated approach to English 8 and Social Studies 8. The course includes complete coverage of both the English 8 and Social Studies 8 curricula while emphasizing common elements between the two based on human patterns and themes. Major units include the study of geography, history, and culture as well as those involving the acquisition of language arts skills through the practice of written and oral communication and the study of literature--including novels, short stories, myths, and poetry.

English Language Arts 8 (French Immersion program)

English Language Arts 8 provides students with the opportunity to become effective communicators, to develop and express their own ideas, and to think deeply and critically about the ideas of others. Major units involve the acquisition of language arts skills through the practice of written and oral communication and the study of literature--including novels, short stories, myths, and poetry.

French 8

French 8 is an exciting introductory course for Core French students. It focuses on the exploration of basic French, Francophone culture, and communication skills development. Students will have access to many different resources including the Discovering French Nouveau Bleu textbook, online resources and other texts.





Sciences Humaines 8

This course focuses on how ideas and stories of different societies have shaped cultures and landscapes throughout the world. Projects aiming to link the past with the present will allow students to identify historical patterns in their everyday world. We will be doing units based in Western Europe, the Middle East, Asia and the Americas between 600 and 1750. The curriculum is developed around the following big ideas: contacts between the New and Old World, exploration, and demographic and environmental changes. Strong emphasis is placed in the first half of the year on improving reading comprehension, enriching one's vocabulary, and on developing note-taking skills.

Français Langue 8

Français Langue 8 is taught entirely in French as part of the Immersion Program. Through a variety of communicative strategies and resources, the students develop all four language skills: writing, speaking, reading and listening. The writing aspect includes narrative, informational, and argumentative texts. Emphasis is on spelling and vocabulary enrichment. The literature component is taught partly in relation to the Social Studies curriculum and explores various cultural backgrounds through the study of a novel, short stories, legends, and plays. The student will also gain confidence by participating in meaningful interactive activities, such as role plays, in-class discussions, and Concours d'Art Oratoire.

Learning Assistance 8

This course supports student organizational skills, study skills, test taking, assignment completion and communication with teachers. Learning Assistance supports students with Ministry-identified learning differences. Students work independently and with their teacher to support and develop skills in order to become independent, self-directed advocates. Depending



on their needs, students may use class time to work on learning strategies or to complete work for their academic courses.

Learning Assistance support is recommended by the School Based Resource Team and is implemented only after parental approval. Prior to receiving support, a student typically has had other interventions including but not limited to differentiated instruction and classroom adaptations.

Science 8

Science 8 is an introduction to four disciplines: Biology, Chemistry, Physics, and Earth Science. At the start of this course, students learn proper laboratory procedures and equipment use. Observation and analysis are skills developed in this lab-oriented course. Observation and analysis are skills developed in this lab-oriented course. Topics covered include Processes of Science, Cells and Systems, Optics, Kinetic Molecular Theory, Atomic Theory, and Plate Tectonics. A year-long Science Fair Project assesses the six curricular competencies that are the foundational skills of all Science courses.

Mathematics 8

Topics include perfect squares and cubes, square and cube roots, percents with financial literacy, proportional reasoning, operations with fractions, discrete linear relations and expressions, two-step equations, 3-D Object Geometry (Nets, surface area, volume), Pythagorean Theorem, central tendency and theoretical probabilities.

A scientific calculator is recommended but not necessary as there is an emphasis placed on developing number skills with fractions and decimals.

Sciences Naturelles 8

Sciences 8 is taught in French, and is an introduction to four disciplines: Biology, Chemistry, Physics, and Earth Science. At the start of this course, students learn proper laboratory procedures and equipment use. Observation and analysis are skills developed in this lab-oriented course.

Observation and analysis are skills developed in this lab-oriented course. Topics covered include Processes of Science, Cells and Systems, Optics, Kinetic Molecular Theory, Atomic Theory, and Plate Tectonics. A year-long Science Fair Project assesses the six curricular competencies that are the foundational skills of all Science courses.

Découvertes en Plein Air 8

The “Découverte en plein air 8” program seeks to connect grade 8 students, through discovery, to the place where they live, learn and play. This course is designed to allow students to develop their curricular competencies in Sciences, Sciences humaines and Éducation physiques, through their Place-Based discoveries.

There is a \$300 fee for this special trio cohort of courses.

This will be accomplished in:

Sciences humaines 8, through their inquiry and analysis into:

- Cultural, social and political change;
- Factors that shape living conditions;
- Consequences of expansionism and colonialism;
- Changing philosophies and the tensions which they create.

Sciences 8, through their inquiry, analysis and evaluation of:

- Life at the cellular level;
- The behaviour of matter at the atomic and molecular level;
- The movement of energy;
- Plate tectonics and the geology of Earth.

Éducation physique en plein air 8, through their participation and development of:

- Physical literacy;
- Healthy and active living;
- Social and community health;
- Mental well-being.

Physical and Health Education 8

Physical and Health Education 8 is designed to develop the student’s holistic understanding of health and well-being. Students in PHE 8 will participate in different types of physical activities, sports and games. This activity based play allows students to develop knowledge, skills and the mindset to remain physically active and healthy over their lifetimes. In addition, there is an added focus on the non-physical aspects of social and mental well-being, individuality, and overall health.

Fee of \$25 for supplementary materials

Éducation physique en Santé 8

Physical and Health Education 8 is designed to develop the student’s holistic understanding of health and well-being. Students in PHE 8 will participate in different types of physical activities, sports and games. This activity based play allows students to develop knowledge, skills and the mindset to remain physically active and healthy over their lifetimes. In addition, there is an added focus on the non-physical aspects of social and mental well-being, individuality, and overall health. Given the North Shore's natural setting, this course will also offer opportunities for outdoor learning experiences in a French environment. ***Note that this PE in French Immersion is not the same as the cohorted Découvertes en Plein Air 8 and is offered as a single course.***

\$25.00 for supplementary materials



Applied Design, Skills and Technology Rotation

Applied Design, Skills and Technology Rotation includes three courses that run for approximately 3 months. Students have a choice of two ADST package options.

ADST OPTION 1	ADST OPTION 2
Textiles	Robotics
Woodwork	Entrepreneurship & Marketing
Computational Thinking	Computational Thinking

Students are provided an opportunity to engage in each of these practical areas of study.

Applied Design, Skills and Technologies 8 Rotation: Robotics

Robotics 8 is one-term course offered in conjunction with a term each of Computational Thinking and Entrepreneurship and Marketing. This course focuses on uses of robotics in local contexts, including types of sensors, user and autonomous control systems, uses and applications of end effectors, movement- and sensor-based responses, program flow, interpretation and use of schematics for assembling circuits, identification and applications of components, and various platforms for robotics programming.

Applied Design, Skills and Technologies 8 Rotation: Textiles

Textiles 8 is a one-term course offered in conjunction with a term each of Woodwork and Computational Thinking. This course examines sources of textile materials, hand and machine construction techniques for producing and/or repairing textile items, basic components of patterns and instructions, colour as an element of design, and personal factors that influence textile choices, including culture and self-expression, and the impact of those choices on individual and cultural identity.

Applied Design, Skills and Technologies 8 Rotation: Woodwork

Woodwork 8 is a one-term course offered in conjunction with a term each of Textiles and Computational Thinking. This course examines the historical and current contexts of woodworking. Students will develop the skills to identify characteristics, and properties of a variety of woods, both manufactured and natural, and explore elements of plans and drawings, woodworking techniques, and options for reuse of wood and wood products.

Applied Design, Skills and Technologies 8 Rotation: Computational Thinking

Computational Thinking 8 is a one-term course offered in conjunction either with a term each of Textiles and Woodwork, OR a term each of Robotics and Entrepreneurship and Marketing. This course explores

software programs as specific and sequential instructions with algorithms that can be reliably repeated by others, debugging algorithms and programs by breaking problems down into a series of sub-problems, and programming languages, including visual programming in relation to text-based programming and programming modular components. Students in Computational Thinking will develop foundational computer skills used throughout their high school education.

Applied Design, Skills and Technologies 8 Rotation: Entrepreneurship and Marketing

Entrepreneurship and Marketing 8 is one-term course offered in conjunction with a term each of Computational Thinking and Robotics. This course examines characteristics of entrepreneurial activity, recognition of a market need and identification of target market, development of a product or service, including its features and benefits, forms of advertising and marketing that can influence a potential customer or buyer, differences between consumer wants and needs, and the role of money management in financing an idea or developing a product. This is a project-based course that will end in a 'Shark Tank' style competition.

Elective Course Options

Fine Arts 8

This elective is a semester program that includes half a year of Art and half a year of Drama.

In Art, students develop their creative skills through drawing, painting, printmaking, sculpting and design projects. Many materials are provided such as quality drawing papers and pencils, graphic pens, tempera paints, and prismacolor pencils. Students are guided to see the world from an artistic point of view and enhance their perception. They will draw from observation and are encouraged to create original designs and to use their imagination. Students are also exposed to the many career paths in today's





art world.

\$20.00 is charged for supplementary art materials.

In Drama, students will participate in drama games, scene work, and dance/movement routines. In a supportive and respectful environment, students perform a wide variety of characters in front of peers in order to build their confidence and public speaking skills. The core focus of this course is engaging as a collaborative ensemble and supportive audience.

Junior Blue Concert Band 8

This class is intended for Grade 8 students from the elementary band program as well as those who have previous experience on another instrument (such as piano, classical guitar, strings, etc.), but are beginners to the Band Program. In addition to scheduled large group classes, the group occasionally meets throughout the year in specialty sectionals. Students self-organize and rehearse as a small group chamber ensemble during the second term. Extra-curricular rehearsals, functions and performances are common, and attendance and full participation are expected from all members. A list of uniform requirements and music supplies will be provided at the beginning of the course.

\$40.00 for supplementary materials

Junior Gold Concert Band 8/9

The Junior Gold Concert Band is intended for the advanced Grade 8 and Grade 9 Band musicians. In addition to scheduled large group classes, the group occasionally meets throughout the year in specialty sectionals. Students self-organize and rehearse as a small group ("chamber ensemble") during second term. Co-curricular rehearsals, functions and performances are common, and attendance and full participation are expected from all members. A list of uniform requirements and music supplies will be provided at the beginning of the course.

\$40.00 for supplementary materials

Strings 8

Grade 8 students have the opportunity to be part of the renowned String Orchestra at Handsworth. They continue to develop performing skills, and work together in cooperation as a group that includes the opportunity to audition for the more advanced level Strings. Instruments include the violin, viola, cello and string bass. Classical guitarists and harpists with music reading ability are welcome to join. Emphasis is placed on the enjoyment of music making with friends in a safe and caring environment. Students will be involved in continued improvement of their string instrument skills. Developing an understanding of music theory and history at an appropriate grade level is an important component leading to success in music making. Strings 8 students typically advance to Strings 9 in the following year.

\$20.00 for supplementary materials

Junior Gold Jazz Band 8/9

This class offers Grade 8 students (or first time jazz grade 9s) the opportunity to learn jazz. It is for students who have never played in a jazz band before. A jazz band is made up of a horn section, (saxophones, trumpets, and trombones), and a rhythm section, (guitar, piano, bass, vibraphone, drum set and percussion). The alto, tenor, and baritone saxophone players at Handsworth are typically students who play sax, flute, clarinet, or bass clarinet as their first concert band instrument. Sax players in jazz band will need to be able to "double" on flute or clarinet as they progress to the higher level ensembles. French horn players usually play trumpet in the jazz band. Baritone horn players play trombone and tuba players play bass trombone. The rhythm section instruments can be played by any one with guitar, piano, bass, or percussion skills, or by those students wishing to develop such abilities. Jazz Band is taken concurrently with Concert Band (or Strings) each year. Students receive an introduction to improvisation. The Gold Jazz Band program includes participation in a music festival as well as a music tour. A uniform is required.

\$40.00 for supplementary materials

Choir 8 to 12

This course encompasses a wide range of repertoire including contemporary, African, American spiritual and pop music. Students will: sing harmonies, perform solos, develop their vocal technique, learn music theory, and acquire music reading skills. Students participate in live performances including choral festivals, evening concerts as well as local and international tours. This class will be scheduled outside the timetable as a 9th course. A uniform is required.

\$40.00 for supplementary materials



Chapter 3

Curricular Areas



COURSE VIDEO

In addition to the course descriptions in this guide, videos of courses and curricular areas are available on our school [Youtube channel](#).

French Immersion

GENERAL PROGRAM DESCRIPTION

The objectives of the French Immersion Program are to provide an opportunity for students to achieve a functional competency in the oral and written use of the French language, and to familiarize students with the culture of Francophone communities in Canada and throughout the world.

Students in French Immersion must complete a total of 13 courses in French with a combination of core and optional courses. At the core of the program are Français Langue from grades 8 to 12 and Sciences Humaines in grades 8 to 11. Electives such as Sciences Naturelles, Éducation Physique, Culture et Communication 9 and Carrières et Leadership 10 can be taken to meet the required 13 courses. The recent addition of the Culture et Communication has provided students with further opportunities to improve their oral fluency and to understand how language and culture coexist in different Francophone communities. Upon the successful completion of 13 courses in the program, students will receive a French Immersion Graduation certificate in addition to the regular Dogwood Graduation Diploma.

As a bilingual school, Handsworth offers an extensive collection of French resources, which are shared with English program students. The teaching staff encourages students to participate in a number of co-curricular activities in French, thus giving them opportunities to hone their linguistic skills in more natural environments.

FRENCH IMMERSION PROGRAM PLANNING

Blocks	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	English 8	English 9	English 10	English 11	English 12
2	Français langue 8	Français langue 9	Français langue 10	Français langue 11 option*	Français langue 12
3	Sciences humaines 8	Sciences humaines 9	Sciences humaines 10	Histoire 12	Career Life Connections 12
4	Math 8	Math 9	Math 10	Math 11	Elective
5	Sciences naturelles 8 or Science 8	Sciences naturelles 9 or Science 9	Sciences naturelles 10 or Science 10	Science (Physics, Bio or Chem)	Elective
6	PE 8 or Academy 8 or Education physique et santé en plein air 8	PE 9	PE 10	Elective OR Français langue 11 option*	Elective
7	Elective	Elective or Culture et communication 9	Career Life Education 10 OR Carrières et leadership 10	Elective	Elective
8	Elective	Elective	Elective	Elective	Elective

CORE COURSES CHECKLIST: (must take all courses)

- | | |
|--|---|
| <input type="checkbox"/> Français langue 8 | <input type="checkbox"/> Français Langue 10 |
| <input type="checkbox"/> Sciences humaines 8 | <input type="checkbox"/> Sciences humaines 10 |
| <input type="checkbox"/> Français langue 9 | <input type="checkbox"/> *Français Langue 11 option (choose at least one) |
| <input type="checkbox"/> Sciences humaines 9 | <input type="checkbox"/> Histoire 12 (taken in Grade 11) |
| <input type="checkbox"/> Français langue 10 | <input type="checkbox"/> Français langue 12 |

FRENCH OPTIONAL COURSES CHECKLIST:

(must take minimum 4, of at least 1 must be at grade 10, 11 or 12 level)

- | | |
|--|--|
| <input type="checkbox"/> Sciences naturelles 8 | <input type="checkbox"/> Carrières et leadership 10 |
| <input type="checkbox"/> Éducation et santé en plein air 8 | <input type="checkbox"/> *Études de cinéma et littératures francophones 11 |
| <input type="checkbox"/> Sciences naturelles 9 | <input type="checkbox"/> *Culture et communication 11 |
| <input type="checkbox"/> Culture et communication 9 | |
| <input type="checkbox"/> Sciences naturelles 10 | |

(At least one of these elective courses must be at the grade 10 or 11 level)

 Required courses for bilingual Dogwood
Courses offered in French

To be used as a personal planning tool only.
PLEASE DO NOT HAND THIS DOCUMENT
INTO COUNSELLING.

French Immersion Courses

Français Langue 8

Français Langue 8 is taught entirely in French as part of the Immersion Program. Through a variety of communicative strategies and resources, the students develop all four language skills: writing, speaking, reading and listening. The writing aspect includes narrative, informational, and argumentative texts. Emphasis is on spelling and vocabulary enrichment. The literature component is taught partly in relation to the Social Studies curriculum and explores various cultural backgrounds through the study of indigenous peoples, novels, short stories, legends, and plays. The students will also gain confidence by participating in meaningful interactive activities, such as role plays, in-class discussions, and Concours d'Art Oratoire.

Français Langue 9

This course will continue to build on the skills learned in Français Langue 8. Units centred on current events, novel studies, film, fables and public speaking will help students develop skills including synthesis and analysis, critical thinking and comparison of different points of view. As well, emphasis will be placed on writing strategies and improving vocabulary within communicative activities.

Français Langue 10

Students in this course will continue to build on the skills gained in Français Langue 9, with the goal of becoming more confident and independent writers and speakers. Units will focus on short stories, novel studies, film, poetry and theatre. Students will focus on analyzing character development, studying thematic and poetic elements, and understanding the socio-cultural-historical connection between a literary work and the author's background. Emphasis will also still be placed on writing strategies and broadening vocabulary skills.



Études du cinéma et de la littérature francophones 11

This Français Langue 11 option is designed to encourage students to discover, explore, analyze, and interpret cinematographic and literary works of the French-speaking world. By studying a variety of texts, students will acquire knowledge of Francophone culture, which will contribute to the development of their identity. The film component of the course will enable students to discover cinematographic and literary works from different eras, cultures, styles, and genres. In addition, students will develop their ability to analyze, interpret, and reflect in order to better appreciate cinematographic and literary works from the French-speaking world. They will explore their imagination and develop their creativity, writing style, and spoken communication through multiple cinematographic and literary genres.

Culture et Communication 11 (Communication Orale 11)

In this Français Langue 11 option, students will continue developing their oral language abilities through authentic communication and situations inspired by Francophone and First Peoples cultures. Students will explore Francophone culture and history through art, drama, music, and react to it through various communicative experiences including debate, and discussions. Additionally, students will refine their presentation skills by learning and applying appropriate planning and writing processes during the design stage. Students who complete this course may be eligible to



participate in a District trip to France.

Français Langue 12

This course is required to receive a bilingual diploma. The objective of this course is to help students to integrate and enhance the linguistic competencies and linguistic and cultural knowledge acquired during past learning experiences. Français langue 12 will enable students to gain an

overview of the various factors that shape their bilingual identity. It offers many opportunities for students to deepen their knowledge of themselves and others in a changing world. In addition, students will explore different types and genres of texts, from various sources, that reflect Francophone and First Peoples perspectives. The course will encourage students to use critical and creative thinking to analyze various communication situations and refine their communication skills in diverse contexts in order to achieve their personal and career objectives.

Culture et Communication 9

In this course, students will develop their oral language skills through the exploration of various art forms from the francophone world. Creative arts such as drama, visual arts, movies, TV shows, and music will be used to inspect perspective of self, others, and the world, and varied experiences and cultures in French. The goal is to have fun speaking French, become more confident, and to learn more about Canadian and international francophone cultures. We will focus on the reasons why it is so amazing to be bilingual. Language is a window into the world. This course will most



likely change how you see the world and will most definitely celebrate cultural diversity and linguistic diversity.

Aventures en Plein Air 8 and 9

The “Aventures en plein air” programs seek to develop, to engage, and to connect students to the community in which they live, learn, and play. During the programs, they will acquire their Sciences, Sciences humaines, and Éducation physique credits through experiential, place-based pedagogy. Students will seek to develop their core and curricular competencies through the lens of cultural and environmental conservancy. Through this lens, students will personally be developing their resiliency, their life-long learning goals, and stewardship of their personal and community identities. Students will participate in several field trips, community service, and a camping trip. All future grade 8 and grade 9 French Immersion students are welcome to apply to their respective program; space is limited in these programs. The grade 8 Aventures program is titled, ‘Découvertes en plein air 8’, and the grade 9 Aventures program is titled ‘Explorations en plein air 9’. A \$300 program fee will be applied to enrolled students to support the additional cost for off-site learning opportunities.

Découvertes en plein air 8

The “Découvertes en plein air 8” program seeks to connect grade 8 students, through discovery, to the place where they live, learn and play. This course is designed to allow students to develop their curricular competencies in Sciences, Sciences humaines and Éducation physique, through their Place-Based discoveries.

This will be accomplished in:

Sciences humaines 8, through their inquiry and analysis into:

- Cultural, social and political change;

- Factors that shape living conditions;
- Consequences of expansionism and colonialism;
- Changing philosophies and the tensions which they create.

Sciences 8, through their inquiry, analysis and evaluation of:

- Life at the cellular level;
- The behaviour of matter at the atomic and molecular level;
- The movement of energy;
- Plate tectonics and the geology of Earth.

Éducation physique en plein air 8, through their participation and development of:

- Physical literacy;
- Healthy and active living;
- Social and community health;
- Mental well-being.

A \$300 program fee will be applied to enrolled students to support the additional cost for off-site learning opportunities.

Explorations en plein air 9

The “Explorations en plein air 9” program seeks to connect students, through exploration, to the place where they live, learn and play. This course is designed to allow students to develop their fundamental skills in Sciences, Sciences humaines and Éducation physiques, through their Place-based explorations.

This will be accomplished in:

Sciences humaines 9, through their inquiry and analysis into:

- The profound influence of emerging ideas;
- The environmental influences political, social and economic change;
- Disparities in power and how they affect societal and personal relationships;
- The role and evolution of collective identity.

Sciences 9, through their inquiry, analysis and evaluation of:

- Cellular reproduction;
- The chemical nature of atoms;
- The study of electricity;
- Interconnectivity of matter cycles, energy and earth's spheres.

Éducation physique en plein air 9, through their participation and development of:

- Physical literacy;
- Healthy and active living;
- Social and community health;
- Mental well-being.

A \$300 program fee will be applied to enrolled students to support the additional cost for off-site learning opportunities.

Education Physique en Santé 8

Physical and Health Education 8 is designed to develop the student's holistic understanding of health and well-being. Students in PHE 8 will participate in different types of physical activities, sports and games. This activity based play allows students to develop knowledge, skills and the mindset to remain physically active and healthy over their lifetimes. In addition, there is an added focus on the non-physical aspects of social and mental well-being, individuality, and overall health. Given the North Shore's natural setting, this course will also offer opportunities for outdoor learning experiences in a French environment.

\$25.00 for supplementary materials

Sciences Naturelles 8

Sciences 8 is an introduction to four disciplines: Biology, Chemistry, Physics, and Earth Science. At the start of this course, students learn proper

laboratory procedures and equipment use. Observation and analysis are skills developed in this lab-oriented course. Observation and analysis are skills developed in this lab-oriented course. Topics covered include Processes of Science, Cells and Systems, Optics, Kinetic Molecular Theory, Atomic Theory, and Plate Tectonics. A year-long Science Fair Project assesses the six curricular competencies that are the foundational skills of all Science courses.

Sciences Naturelles 9

Sciences 9 continues the study of Biology, Chemistry, Physics, and Earth Science. Observation and analysis are skills developed in this lab-oriented course. Topics covered include cell division and reproduction, the periodic table with elements and compounds, electricity, matter cycles, and sustainability with a focus on First People's knowledge.

Sciences Naturelles 10

Sciences 10 extends knowledge of Biology, Chemistry, Physics, and Space Science. Observation and analysis are skills developed in this lab-oriented course. Topics include First People's perspectives, genetics, diversity, chemical reactions, energy transformation during motion, local and global impacts of energy from technology, nuclear energy, and the formation of the universe.



Sciences Humaines 8

This course focuses on how ideas and stories of different societies have shaped cultures and landscapes throughout the world. Projects aiming to link the past with the present will allow students to identify historical patterns in their everyday world. We will be doing units based in Western Europe, the Middle East, Asia and the Americas between 600 and 1750. The curriculum is developed around the following big ideas: contacts between the New and Old World, exploration, and demographic and environmental changes. Strong emphasis is placed in the first half of the year on improving reading comprehension, enriching one's vocabulary, and on developing note-taking skills.

Sciences Humaines 9

This course focuses on the movement to a democratic and industrial world in Europe and its expansion in North America between 1750 and 1919. The relationships between Indigenous people, the settlers, and the colonial government in national, regional and local contexts will also be studied. Students will also gain a greater understanding of the foundation of political institutions through the study of the French, American, and (English) Glorious Revolutions. Emphasis is also placed on the development of research strategies, critical reading skills, and argumentative writing.

Sciences Humaines 10

Sciences Humaines 10 will build on the skills, processes, and themes introduced and developed in earlier Sciences Humaines classes to develop students as active and responsible Canadian and Global citizens. The critical thinking skills reinforced will allow for information gathering from various sources; analyzing and interpreting resources; presenting and justifying positions on issues; and informed decision-making. Social Studies 10 will focus on the 20th century conflicts, events and forces that have

shaped modern Canadian politics, political systems and the modern Canada Identity. Indigenous culture and histories are also explored. Sciences Humaines 10 is part of the Immersion Program and is taught entirely in French. All four skills (writing, reading, listening, and speaking) are emphasized in the strategies used.

Histoire 12

This course is offered to French Immersion students in grades 11 and 12, and provides them with a grade 12 level credit for the Humanities. Called Twentieth Century World History in English, this course covers the world wars, the rise and rule of authoritarian regimes in places such as Germany, Italy, China and the Soviet Union, and the study of the ideologies that informed them. Different human rights movements and migrations will also be examined, as well as the intervention of international organizations in different crises. The course will make extensive use of different media like documentary and narrative films, newspaper articles, statistics, maps, poetry, art, and other primary source documents to better understand divergent perspectives on events.

Éducation à la vie professionnelle 10:

This course provides opportunities for students to plan for successful lifelong learning, explore factors that have an impact on future career choices and opportunities, develop financial literacy skills, and cultivate self-awareness and interpersonal skills. Furthermore, students will explore how to cultivate a network to support their career-life awareness and options, and participate in volunteerism as a way to contribute to their community and society. As well, they will develop strategies to support themselves in maintaining a work-life balance to encourage physical and mental health.

Dance

GENERAL PROGRAM DESCRIPTION

The Fine Arts Department is very proud of the ongoing success of the Dance Program. The dance program at Handsworth is one-of-a-kind with its strong emphasis on student choreography. Our bi-annual performances of “Hands Up”, performed by all the dancers in the program, are primarily choreographed by students for students. By following their interests and passion, our dancers have the opportunity to see their creations come to life under the tutelage of their dance teachers. This sense of ownership inspires the younger generations of dancers.

The Dance Program offers a variety of multi-grade classes, each focusing on different dance styles reflecting the dancers’ preferences, for dancers with or without previous dance experience. THERE IS A DANCE CLASS FOR EVERYONE! Contemporary, jazz, lyrical, street dance and hip hop/animation/locking/popping dance techniques may be studied. Strong emphasis is placed on developing dance technique and performance skills, student choreographic projects, dance etiquette, leadership skills, and inspiring the next generation through dance. Students may learn about the pioneers of dance and/or the influential choreographers of today in dance history and how to critique dance. At times, dancers may even get the opportunity to learn from guest choreographers. This new initiative is designed to connect the dancers with the vibrant local dance scene.



Note – Squad & Studio: Placement into Squad or Studio will be based on a one-on-one consultation with the dance teachers and the student’s ability level both technically and artistically for the following classes: Squad (intermediate) and Studio (advanced). Students from Grade 9-12 can audition to be in Squad. Students from Grade 10-12 can audition to be in Studio. Auditions are held in May (dates TBD) and students will find out their placement at the end of June. In the meantime, students are instructed to sign up for the credit they wish to receive based on their grade, not Squad or Studio. (E.g. Dance Technique & Performance 11).

Once the auditions have been completed, the students will be slotted into the appropriate class for them based on their abilities, scheduling permitting).

Dance Program Organization:

Dance Companies	
Squad Dance Co. (grade 9-12)	Studio Dance Co. (grade 10-12)
Dance 9	Dance Foundation 10
Dance Foundation 10	Physical & Health Education 10 - Dance
Physical & Health Education 10 - Dance	Dance Choreography 11
Dance Choreography 11	Dance Technique & Performance 11
Dance Technique & Performance 11	Dance Technique & Performance 12
Dance Technique & Performance 12	Dance Choreography 12
Dance Choreography 12	

Dance Crew	
Junior Dance Crew (grade 9-10)	Senior Crew (grade 11-12)
Dance 9	Dance Choreography 11
Dance Foundation 10	Dance Technique & Performance 11
Physical & Health Education 10 - Dance	Dance Technique & Performance 12
	Dance Choreography 12

Just Dance!
Grade 10-12
Dance Foundation 10
Physical & Health Education 10 - Dance
Dance Choreography 11
Dance Technique & Performance 11
Dance Technique & Performance 12
Dance Choreography 12
Dance 9

DIFFERENT CLASSES OFFERED

Dance 9

Dance 9 provides students with opportunities to experience, understand, and value the art of dance through technical and performance skills. Students will be immersed in jazz, contemporary dance, and hip hop. The basic elements of choreographing will be introduced to promote self-advocacy, confidence, and creativity. As a dancer in Dance 9, students will have the opportunity to be a part of Handsworth's vibrant performing arts community! Come have fun creating dances to your favourite music and learning to dance in a dynamic and safe environment! No previous dance experience necessary. Students will perform at Hands Up in November 2020 & in June 2021 at Centennial theatre. Course Fee of \$15



Just Dance!

This class is designed for students in Grade 10-12 of all genders who have no previous dance experience or are at a beginner to intermediate level. This class focuses on dance and movement as a source of joy, self-expression, and fitness. Students have the opportunity to perform in Hands Up in November 2020 & in June 2021 at Centennial theatre, as well as learn a variety of dance styles. Students will receive the appropriate credit for their grade level. Course Fee of \$15

Junior Crew

Students in Grade 9-10 can register for this class if they are interested in learning mostly hip hop & street dance, while being introduced to other dance styles along the way. No previous dance experience necessary! Students will perform at Hands Up in November 2020 & in June 2021 at Centennial theatre.

Course Fee of \$15

Senior Crew

Students in Grade 11-12 can register for this class if they are interested in learning mostly hip hop, animation, popping & locking, street dance, while being introduced to other dance styles along the way. Students will perform at Hands Up in November 2020 & in June 2021 at Centennial theatre.

Course Fee of \$15

Squad

This intermediate-level class is meant for students with previous dance experience looking to develop their dance technique and performance skills in a more challenging environment. Students may have the opportunity to perform in additional performances such as the school play (pending availability) and basketball spirit games. Compositional skills are also



developed. The emphasis is placed on jazz, lyrical, contemporary, and hip hop dance techniques. Students will perform at Hands Up in November 2020 & in June 2021 at Centennial theatre. Placement into Squad will be based on a one-on-one consultation with the dance teachers and the student's ability level both technically and artistically. Course Fee of \$15

Studio

This advanced-level class is meant for students with previous dance experience looking to develop their dance technique and performance skills in a more challenging environment. Students may have the opportunity to perform in additional performances such as the school play (pending availability). Compositional & choreographic skills are an integral part of this class. The emphasis is placed on jazz, lyrical, contemporary, and hip hop dance techniques as well as choreographing for upcoming performances. Students will perform at Hands Up in November 2020 & in June 2021 at Centennial theatre. Placement into Studio will be based on a

one-on-one consultation with the dance teachers and the student's ability level both technically and artistically. Course Fee of \$15

Physical and Health Education 10: Dance

For students who wish to focus on dance, get fit through fun dance combos and participate in the bi-annual "Hands Up" dance performances. Dance technique and performance skills are embodied and developed in a variety of genres or styles such as contemporary, lyrical, jazz, hip hop, etc. Dancers will collaborate through critical reflection, creative co-operation, and the exchange of ideas. An emphasis will be placed on promoting healthy living habits such as exercising as lifelong benefits. Come discover the fun in dancing! Course Fee of \$15

Dance Foundations 10

This course is intended for Grade 10 students who already have their Physical and Health Education 10 credit and looking to take a dance course. For students who wish to focus on dance, get fit through fun dance combos and participate in the bi-annual "Hands Up" dance performances. Different types of dance will be explored depending the class the student is in. This course will explore unique ways of exploring our identity and sense of belonging, while expressing ourselves through dance. Course Fee of \$15

Dance Technique & Performance 11

This class is for the students who want to enhance their technique and performance skills in a variety of dance styles, further and expand their knowledge about dancing as an art form. Dancers will collaborate through critical reflection, creative co-operation, and the exchange of ideas. Depending if the student is in a Just Dance, Squad, Studio or Sr. Crew, the delivery of the content will vary based on the dance class, but similar curricular competencies will be at the forefront of each class. Course Fee of \$15



Dance Technique & Performance 12

An opportunity for students who wish to continue performing at a more advanced level in various dance styles and are committed to participate in bi-annual performances of "Hands Up". Students will learn more extensively about dance history and dance critique to open up their minds to the diversity the dance world has to offer since aesthetic experiences have the power to transform our perspective. Throughout the year, dancers will develop perseverance, resilience, and risk taking. Depending if the student is in a Just Dance, Squad, Studio or Sr. Crew, the delivery of the content will vary based on the dance class, but similar curricular competencies will be at the forefront of each class.

Course Fee of \$15

Dance Choreography 11

Students who have developed their skills in various dance forms and are ready to take on more of a leadership role may register for this course. They will be required to perform as well as lead small and/or large group choreographies for school performances such as the Grade 8 Evolution dance, Hands Up, the school play, Basketball Spirit Game, etc. Student choreographers will learn how to create innovative pieces using various choreographic skills and methods. Choreographers will learn to make purposeful artistic choices to create and communicate meaning using various elements of dance and compositional skills. Students desiring to enrol in Dance Choreography 11 must speak with the dance teachers to



discuss the student's readiness to take on the responsibilities of this course.
Course Fee of \$15

Dance Choreography 12

Well-seasoned dancers who would like the challenge in choreographing are invited to pursue their creative abilities in this area. They will learn to choreograph and teach choreographies performed at various school performances such as Hands Up and potentially the school play (space permitting). This class will require the student to create more advanced choreographies and to take on a leadership role in the dance program while communicating their artistic intent and meaning through their work. Choreographers will need to collaborate through critical reflection, creative

co-operation, and the exchange of ideas to create innovative choreography. An emphasis will also be placed on music editing and production tasks. Students desiring to enroll in Dance Choreography 12 must speak with the dance teachers to discuss the student's readiness to take on the responsibilities of this course. Course Fee of \$15

Section 3

Theatre Performance

GENERAL PROGRAM DESCRIPTION

The Handsworth Theatre program fosters community-building, personal and social awareness, agency, and excellence in stage productions. Students develop their performance, design, production, and leadership skills as ways to discover their potential as creators and storytellers. Students study and engage in wide range of drama activities and script work. Each year, the senior theatre and dance students create an original play. Throughout the school year, the students' theatre works are presented at Handsworth and Centennial Theatre.

Drama 8

In Drama, students will participate in drama games, scene work, and dance/movement routines. In a supportive and respectful environment, students perform a wide variety of characters in front of peers in order to build their confidence and public speaking skills. The core focus of this course is engaging as a collaborative ensemble and supportive audience.

Drama 9

Drama 9 is an introductory performance course, which aims to develop teamwork skills, confidence, and creativity. Students will engage in drama games, vocal and physical warm ups, character-development, play-building, play analysis, and explore social justice scenes. The core focus of this course is giving and receiving positive and constructive feedback, problem solving, and strengthening collaboration and communication skills. Students will share their work at the grade 9 annual Silent Film Festival, present a play in class, and end the year by co-creating and performing their own





performance piece at Handsworth's Hands Up show at Centennial Theatre! Everyone is welcome in Drama 9!

Drama 10 (Theatre Acting)

In Drama 10, students engage in a wide range of acting exercises, body and voice training, experimental character development work, script analysis work, and scene and monologue performances. Students will have the opportunity to participate in various collaborative ensemble theatre projects and evening performances at Handsworth and Centennial Theatre.

Drama 11: (Theatre Acting)

In Drama 11, students expand on the skills developed in Theatre Acting 10. Students continue to be engaged in a wide range of acting exercises, body and voice training, experimental character development work, script

analysis work, and scene and monologue performances. Students will have the opportunity to participate in various collaborative ensemble theatre projects and evening performances at Handsworth and Centennial Theatre.

Directing and Script Development 12

In Directing and Script Development 12, students expand on the skills developed in Drama 10 and 11. Working with peers in scene and monologue performances, students develop their leadership skills to envision, direct, write, and perform live theatre performances. Students enrolled in this course are also required to sign up for an additional work period in order to direct younger peers in a different period. Throughout

the school year, students develop their directing, play-developing, and acting skills for performances at Handsworth and Centennial Theatre.



Theatre Production 10 (Tech)

Theatre Tech 10 is an introduction to Stagecraft, which may include theatre history, stages, rigging, sound, make-up, costumes, props, set construction, and theatre lighting. Much of the course is laboratory in nature, which allows students to develop and to apply the practical skills of stagecraft. Students in this course must be able to work independently on the technical components related to the school productions at Handsworth and Centennial Theatre. Students are required to be available for regular out-of-class and evening rehearsals and performances. Due to the independent nature of this course, students are required to meet with the instructor beforehand to register for this course. Prerequisite: Interview with the Instructor (See David Beare for an interview).

Theatre Production 11 (Tech)

Theatre Production 11 is a continuation of Theatre Production 10. Much of the course will be laboratory in nature, allowing students to develop and to apply the practical skills of stagecraft. Students in this course must be able to work independently on the technical components related to the school productions at Handsworth and Centennial Theatre. Students are required to be available for regular out-of-class and evening rehearsals and performances. Due to the independent nature of this course, students are required to meet with the instructor beforehand to register for this course. Prerequisite: Interview with the Instructor (See David Beare for an interview).

Theatre Production 12 (Tech)

Theatre Production 12 is a continuation of Theatre Production 10 and 11. Much of the course will continue to be laboratory in nature, allowing students to develop and to apply the practical skills of stagecraft. Students in this course must be able to work independently on the technical components related to the school productions at Handsworth and Centennial Theatre. Students are required to be available for regular out-of-class and evening rehearsals and performances. Due to the independent nature of this course, students are required to meet with the instructor beforehand to register for this course. Prerequisite: Interview with the Instructor (See David Beare for an interview).

English Studies 12 TP: Theatre and Performance

English Studies 12 TP covers the same curriculum as English Studies 12 (see English Studies 12 course description) with students who are typically enrolled in a senior theatre, dance or tech production course. Students enrolled in English TP will be heavily involved in a complex theatre-making process, which may involve scriptwriting, choreographing, designing, and/or stage managing. Over the course of a year, students work collaboratively to co-create and perform an original play or an original interpretation of a play. Since 2000, the students' plays have been performed annually at Centennial Theatre. Overall English 12TP provides the opportunity for students to inquire as a learning community and to explore the themes, topics, and connections that organically arise from the students' reading and writing assignments in the English 12 Studies curriculum and the students' collective co-creation. While not required, typically students enrolled in English 12 TP are also enrolled in Directing and Script Development 12, Theatre Production 12, or Dance 12.



Media Arts

Drama: Film & TV 11/12 (Film Production)

In Drama: Film & TV 11/12, students will develop essential skills in video storytelling and professional editing to produce high-quality short films. Students will gain experience in pre-production, production and post-production while learning industry-standard digital programs. This project-based course covers various aspects of filmmaking, including writing, directing, producing, storyboarding, shooting, editing, audio mixing and lighting. Students will acquire practical experience in analyzing film and television, technical and media literacy, project management and copyright laws. Film projects will be presented at the bi-annual Handsworth Film Festival. Students have access to camera and equipment loans through the Media Arts Department.

\$75 for supplementary materials (including props budget, poster printing, custom film t-shirt)

Photography 10

This course explores the art of digital and film photography. Students will develop essential skills in camera operation with a focus on composition, lighting, digital editing, darkroom printing, and alternative photographic practices. Students will be guided through the process, parameters and issues that arise when working with light-sensitive media. The works of significant photographers, both historic and contemporary, will be studied throughout the course. Students have access to camera and equipment loans through the Media Arts Department.

\$75 for supplementary materials (including film, sketchbook, photographic paper, and printer inks)



Photography 11

This course explores the art of digital and film photography. Students will develop essential skills in camera operation with a focus on composition, lighting, digital editing, darkroom printing, and alternative photographic practices. Students will be guided through the process, parameters and issues that arise when working with light-sensitive media. The works of significant photographers, both historic and contemporary, will be studied throughout the course. Students have access to camera and equipment loans through the Media Arts Department.

\$75 for supplementary materials (including film, sketchbook, photographic paper, and printer inks)



Photography 12

Photography 12 attempts to build upon the skills and concepts learned in Photography 10/11. Students will work with more complex and refined photographic settings, techniques, themes, and image processing. Using a variety of traditional and digital media technologies, students will develop a portfolio that reflects their unique, creative and personal expression. At the grade 12 level, students are required to be more independent and proactive in their photographic work. Students have access to camera and equipment loans through the Media Arts Department.

\$75 for supplementary materials (including film, photographic paper, and printer inks)

Section 5

Computer Science

General Program Description

Everybody in this country should learn how to program a computer as it teaches you how to think. The ability to break down complicated problems in to simple steps (that a machine can follow) is a skill that will benefit anyone in every walk of life.

Just as learning English has become compulsory in todays education system, the day will come, not far off from today, where the learning of a second language (coding) will be mandatory too. Computers are everywhere. Every industry has been turned on its head (impacted) by the technology it uses and the software that commands it.

Everyone depends on technology to bank, communicate, travel, entertain, and learn, but the majority of the population does not know how to read and write code. It is not good enough to be exposed to technology as all jobs in the future will require some understanding of how to operate it. The fact is that there are not enough people who are trained and have the skills necessary in today's job markets. Currently 1 million of the best jobs may go unfilled in North America (recruiting overseas) as there are not enough skilled people (locally) to fill them.

The reality is that you do not need to be a genius to know how to code, just determined. Coding is something that is learned, not a perspective that we are born with. The programmers of tomorrow will be the wizards of the future as the skills (magical powers) they posses will revolutionize our world.

Together, Let's Build Stuff...and Make Tomorrow Happen...





Course Descriptions

Information and Communication Technology 9

This course looks at the technology in and around our lives. The aim is to provide students a solid foundation of the technology found in schools and the workplace as well as to introduce students to the world of programming and engineering.

Students will be introduced to coding through the programming language Snap!—a visual, block based, drop-and-drag, web browser (JavaScript) programming language used in the TEALS curriculum. This project based learning environment will teach kids coding essentials while creating assorted puzzle, animation and game projects.

Next, the programming language Swift is tackled—Apple’s Swift Playgrounds is found in Apple (IOS App Development) products and used in the Learn to Code curriculum. In this segment of the course, students learn to code through the completion of animated interactive tasks.

At the end of each segment students will be given the opportunity to transfer the knowledge learned by programming machines (modular components include: drones, bots, robotics and raspberry pi).

Interwoven throughout the year, to prepare students for life in the digital age, students will examine topics such as internet use, cloud technologies,

social media, cyber ethics, digital literacy, desktop publishing, the full suite of Microsoft products and a number of online applications.

This course is designed to help anyone become familiar with technology and learn to code no matter the level of experience. Lessons are fun and interactive, focusing on a suite of guided games and puzzles that teach the foundations of coding. No experience or pre-requisite required.



Web Development 10

One of the most powerful tools of the 21st century is the internet as it has influenced everyone, in all walks of life, in every corner of the world. The intention of this course is to provide a solid understanding of how this marvelous wonder works. Students will be introduced to the art of website creation through powerful Content Management Systems (WordPress and Microsoft SharePoint). Next, students will be exposed to a variety of

professional desktop and web-based resources, tools and applications in order to learn how to create and manipulate web content (text, sound, pictures and video). The journey will continue into the realm of coding (HTML, CSS, JavaScript—the official languages of the web) allowing next-level development (Content Management System customization or website creation from scratch). By the end of the course students will have created several fully functioning websites embedded with artifacts created along the way. Students will also be able to differentiate amongst a variety of web elements that include structure, content, style, design, functionality and interactivity. No experience or pre-requisite required.

Computer Studies 10

Computer Studies 10 is the sister course of Web Development 10. The two courses are similar as, at their core, they focus on the development of the internet (web). The main difference lies in the approach to the subject matter. If Web Development 10 explores the topic from the perspective of an everyday user (front-end), then Computer Studies 10 explores the topic from the perspective of a technician (back-end). Computer Studies 10 is a coding-centric course. It focusses on the development of websites from scratch using HTML and CSS, which makes of the foundation and artistic characteristics of the web. Other topics covered in the course include hardware, software, networking and security. Computer Studies 10 is the natural next step for students who have taken other computer courses and want to continue on a technological path. No experience or pre-requisite required - just a love for technology and an interest in exploring its roots, and figuring out what makes it tick!

Computer Programming 11

Taking Web Development to the next level with HTML, CSS and JavaScript. While coding is the focus of this course, students will learn how these languages fit together to create the front end (UI / UX) of the web. Students will be exposed to a variety of professional online resources

(interactive IDE, videos and communities) intended to enrich a student's understanding of essential programming syntax, structures and constructs. Students will learn to modify existing code, predict the effects of code and develop programs to meet a specific purpose.

The end of the year will be career focused as students will have an opportunity to pursue specific projects based on interests ranging from modular programming (robotics, raspberry pi), computer hardware/software installation, mobile app development, networking hardware and of course programming. No experience or pre-requisite required.

Computer Programming 12

Java, used by over 9 million programmers, is the most popular language used in the industry by professionals due to its power and versatility. Java's ability to create a multitude of real world applications and provide a secure career is why Java is the focus of this course.

In this course, students will learn intermediate and advanced programming structures and constructs. Students will be exposed to a variety of professional online resources (interactive IDE, videos and communities) to enrich their learning. By the end of the course students will learn to decompose problems and create algorithms for the purpose of developing programs to meet a client's needs.

The end of the year will be career focused as students will have an opportunity to pursue specific projects based on interests ranging from modular programming (robotics, raspberry pi), computer hardware/software installation, mobile app development, networking hardware and of course programming. Students taking this course are recommended to complete Computer Information Systems 11 or Computer Programming 11.

AP Computer Science Principles

Students in AP Computer Science Principles will learn about the underlying principles of Computation and IOT (Internet of Things). The course covers a broad range of foundational topics such as programming, algorithms, the internet, big data, digital privacy and security, and the societal impacts of computing. The computer language used will be App Lab (Based on JavaScript with Text or Block-Based functionality). APCSP is a directed study course (code.org) with a heavy emphasis on research and peer review.

The course is meant to be the equivalent of a first-semester university or college course in Computer Science. Students taking this course are recommended to complete Computer Information Systems 12 or Computer Programming 12 or have equivalent programming experience with JavaScript or Java. Upon completion of AP Computer Science Principles (and after achieving a score of 4 or 5 on the AP exam) students may be granted credit at some universities.

Optional AP Exam Fee \$150

Media Design 11

This is a project-based course that blends technology and design. Students will apply the design thinking process to produce projects based on real-world design challenges. Students will work with a variety of digital media including graphic design, animation, photography, videography, and web development. The course places emphasis on software used in the industry; such as, Adobe Photoshop, Illustrator, Lightroom, After Effects, Premiere Pro and InDesign.

\$35 for supplementary materials (including sketchbook, photographic paper and printer ink)

Media Design 12

Media Design 12 is a continuation of Media Design 11. Students take Media Design 12 once they have completed the curriculum for Media Design 11. Students will refine their aesthetic sensibility and technical skills through various design opportunities. Students will develop advanced knowledge of industry-standard applications while also exploring new digital media tools. Students will work in an independent manner to create a personal portfolio.

\$35 for supplementary materials (including sketchbook, photographic paper and printer ink)

Digital Media Development 11/12 (Yearbook)

Digital Media Development 11/12 (Yearbook) is a deadline-driven and deadline-sensitive course. The primary focus of this course is the completion of Handsworth's Yearbook. Students will work together to create an inclusive and innovative book that records our school's community, memories and events. Throughout this course, students will gain experience in one or more of the following areas: marketing, journalism, publishing techniques, digital photography, page design, writing, and editing. The Yearbook is produced using a variety of digital tools including Adobe InDesign, Photoshop and Illustrator. Students will acquire real-world skills in project management, teamwork, marketing and the design cycle.

Music

GENERAL PROGRAM DESCRIPTION

The Music department at Handsworth is a very active place with rehearsals happening throughout each day, before and after hours, by our award winning students and ensembles. We make a great effort to provide the students with a rich experience in music and musical activities. These include frequent performances, festival attendance, local tours such as Whistler and Sun Peaks, and major tours such as New York, Cuba, and Italy. It is a comprehensive program of four Concert Bands, three String Orchestras, three Jazz Bands, and one Choir. Recent performances include The Senior Wind Ensemble performing at the UBC Chan Centre for the Performing Arts, and the Senior Jazz Band playing at the TD Vancouver International Jazz Festival Youth Showcase.

Every year Handsworth music students have the opportunity to audition for Provincial Honour Music groups and our school has been well represented in these ensembles. Every other year qualified students are invited to play in the District Honour Concert Band or String Orchestra. These district groups have the exceptional opportunity to play with the Vancouver Symphony Orchestra. A great variety of music is chosen to challenge and engage the students from classical to contemporary, as well as jazz, and pop. Small ensembles and self-directed jazz combos are encouraged and promoted.

Music Courses

Junior Blue Concert Band 8

This class is intended for Grade 8 students from the elementary band program as well as those who have previous experience on another instrument (such as piano, classical guitar, strings, etc.), but are



beginners to the Band Program. In addition to scheduled large group classes, the group occasionally meets throughout the year in specialty sectionals. Students self-organize and rehearse as a small group ("chamber ensemble") during the second term. Extra-curricular rehearsals, functions and performances are common, and attendance and full participation are expected from all members. A list of uniform requirements and music supplies will be provided at the beginning of the course.

\$40.00 for supplementary materials



Junior Gold Concert Band 8/9

The Junior Gold Concert Band is intended for the advanced Grade 8 and Grade 9 Band musicians. In addition to scheduled large group classes, the group occasionally meets throughout the year in specialty sectionals. Students self-organize and rehearse as a small group ("chamber ensemble") during second term. Co-curricular rehearsals, functions and performances are common, and attendance and full participation are

expected from all members. A list of uniform requirements and music supplies will be provided at the beginning of the course.

\$40.00 for supplementary materials

Strings 8

Grade 8 students have the opportunity to be part of the renowned String Orchestra at Handsworth. They continue to develop performing skills, and work together in cooperation as a group that includes the opportunity to audition for the more advanced level Strings. Instruments include the violin, viola, cello and string bass. Classical guitarists and harpists with music reading ability are welcome to join. Emphasis is placed on the enjoyment of music making with friends in a safe and caring environment. Students will be involved in continued improvement of their string instrument skills. Developing an understanding of music theory and history at an appropriate grade level is an important component leading to success in music making. Strings 8 students typically advance to Strings 9 in the following year.

\$20.00 for supplementary materials

Junior Gold Jazz Band 8/9

This class offers Grade 8 students (or first time jazz grade 9s) the opportunity to learn jazz. It is for students who have never played in a jazz band before. A jazz band is made up of a horn section, (saxophones, trumpets, and trombones), and a rhythm section, (guitar, piano, bass, vibraphone, drum set and percussion). The alto, tenor, and baritone saxophone players at Handsworth are typically students who play sax, flute, clarinet, or bass clarinet as their first concert band instrument. Sax players in jazz band will need to be able to "double" on flute or clarinet as they progress to the higher level ensembles. French horn players usually play trumpet in the jazz band. Baritone horn players play trombone and tuba players play bass trombone. The rhythm section instruments can be played by any one with guitar, piano, bass, or percussion skills, or by those students wishing to develop such abilities. Jazz Band is taken concurrently with Concert Band (or Strings) each year. Students receive

an introduction to improvisation. The Gold Jazz Band program includes participation in a music festival as well as a music tour. A uniform is required.

\$40.00 for supplementary materials

Choir 8 to 12

This course encompasses a wide range of repertoire including contemporary, African, American spiritual and pop music. Students will: sing harmonies, perform solos, develop their vocal technique, learn music theory, and acquire music reading skills. Students participate in live performances including choral festivals, evening concerts as well as local and international tours. This class will be scheduled outside the timetable as a 9th course. A uniform is required.

\$40.00 for supplementary materials

Intermediate Concert Band 9/10

The Intermediate Concert Band is intended for grade 10 students as well as some advanced grade 9's. In addition to scheduled large group classes, the group occasionally meets throughout the year in specialty sectionals. Students self-organize and rehearse as a small group ("chamber ensemble") during second term. Co-curricular rehearsals, functions and performances are common, and attendance and full participation are expected from all members. There is a uniform requirement. There is the opportunity of a band tour every year. (Grade 10 beginners with music experience are welcome).

\$40.00 for supplementary materials

Senior Wind Ensemble 11/12

(Grade 11 & 12 beginners with music experience may be included, subject to an interview with the teacher)

The Senior Wind Ensemble performs at a top high school level, just below university caliber. In addition to scheduled large group classes, the players occasionally meet throughout the year in specialty sectionals.

Students self-organize and rehearse as a small group ("chamber ensemble") during the second term. Co-curricular rehearsals, functions and performances are common, and attendance and full participation are expected from all members. There is a uniform requirement. There is the opportunity of a major band tour every second year (grade 11 or 12). The past two tours were to New York City in 2015 and Cuba in 2017. The 2019 tour is to Italy.

\$40.00 for supplementary materials



Intermediate Jazz Band 9/10

This class offers Grade 9 and 10 students the opportunity to continue jazz at a higher level than the Junior Gold Jazz Band. The Intermediate Jazz Band is for students who have already played in a jazz band or students who have never played in a jazz band before but are advanced players of a concert band instrument. A jazz band is a team made up of a horn section: saxes, trumpets, and trombones, and a rhythm section: guitar, piano,

bass, and drums. The alto, tenor, and baritone saxes at Handsworth are typically students that play sax, flute, clarinet, or bass clarinet as their first instrument. Sax players in jazz band will need to be able to “double” on flute or clarinet as they progress to the higher levels of jazz band. French horn players play trumpet or trombone in the jazz band. Baritone horn players play trombone and tuba players play bass trombone. The rhythm section instruments can be played by any one with guitar, piano, bass, percussion skills, or by those students wishing to develop such abilities. Jazz Band is taken concurrently with Concert Band (or Strings) each year. Select “Jazz Band” on your course selection form as a 9th course. The Intermediate Jazz Band program includes participation in a music festival as well as a music tour.

\$40.00 for supplementary materials

Senior Jazz Band 11/12

Senior Jazz Band offers Grade 11 and 12 students a very challenging exposure to the Big Band Jazz idiom. Solo playing and improvisation will be expected from all members. Those who elect this course are expected to be concurrently taking Senior Wind Ensemble at Handsworth. Extra individual practice above that required for Concert Band is expected as is attendance at co-curricular sectionals, full rehearsals, and all performances. Fundamentals of jazz theory are covered. Individual evaluations take place three times per year. There is a uniform requirement. The group attends a local music festival and there is an opportunity for group travel each year.

\$40.00 for supplementary materials

Senior Strings 11 & 12

Senior Strings 11 & 12 is offered for students who wish to advance their musicianship skills on orchestral stringed instruments. The Handsworth Senior Strings has an emphasis on professional level diverse repertoire. Student-instigated musical leadership, developing independent advanced ensemble skills, expressive skills, and a high degree of self-critique will be cultivated. Instruments include the violin, cello, and string bass.

Experienced classical guitarists, harpists and pianists must audition before admission. Emphasis is also placed on the enjoyment of music making with friends in a safe and caring environment. Students will be involved in continued mastery of their string instrument skills, develop performing skills, and work together in cooperation in a group including the opportunity for trips and concerts. Some concentration may be placed on self-directed music composition, small ensemble performances, history studies, and alternative strings music.

\$20.00 for supplementary materials



Strings 10

Students in Grade 10 are mainly part of the Strings 9/10 Orchestra, while some students may join the Senior Strings group. Students will work for continued mastery of their orchestral stringed instrument skills as they progress to more advanced levels of playing. Developing performing skills and working together in cooperation in a group are stressed. Students will have the opportunity to audition for the Senior Strings if seats are available. Instruments include the violin, viola, cello, and string bass.

Experienced classical guitarists, pianists and harpists are welcome and must audition before admission. Emphasis is placed on the enjoyment of music making with friends in a safe and caring environment. Developing mastery of music theory and history at an appropriate grade level is an important component leading to success in music making. Music of all styles and genres is explored, to enhance professional ensemble skills. Typically, Strings 10 students advance into Senior Strings 11.

\$20.00 for supplementary materials



Strings 9

Students in Grade 9 are mainly part of the Strings 9/10 Orchestra. Students will be involved in continued mastery of their orchestral stringed instrument skills as they progress to more advanced levels of playing. Developing performing skills and working in cooperation are stressed. Students will have the opportunity to audition for the most advanced performing ensemble, the Handsworth Senior Strings if seats are available. Instruments include the violin, viola, cello, and string bass. Experienced classical guitarists, pianists and harpists are welcome and

must audition before admission. Emphasis is placed on the enjoyment of music making with friends in a safe and caring environment. Developing mastery of music theory and history at an appropriate grade level is an important component leading to success in music making. Music of all styles and genres is explored.

\$20.00 for supplementary materials



The Music Program's annual Bottle Drive Fundraiser.

Visual Arts

GENERAL COURSE DESCRIPTION

We are very lucky at Handsworth to work and live in an inspiring and natural environment. Visual arts students are able to look out the window and explore the school grounds to brainstorm, collaborate, and experience a unique landscape filled with textures, smells, and visual wonder.

Our programs offer a wide-reaching range of material, intellectual, and applicable skills for students to learn and thrive in the visual arts. We are able to work together to create applied design projects, ensemble sculpture, personalized journals, and everything in between.

Boasting the most comprehensive visual arts program in the district, we are lucky to offer students experiences with visiting artists like George Rammell and Amy Huestis, prominent community members, and speakers who expose our students to the wide-reaching world of art, design, and media.

Courses like Graphic Arts 11/12 give students both hands-on approaches to image development, and digital exploration of the world of contemporary design. Likewise, Art Studio 3D allows students to use their special skills to manipulate materials and create objects and experiences that occupy the third dimension.

Art Studio 2D brings students together to create striking compositions, learn to manipulate materials, and produce two-dimensional artwork that speaks about our relationship with the world and that of the artists who





inspire us. Handsworth also offers an industry focused Media Arts 10/11/12 program that immerses students in the world of photography. We are very lucky to have a functional darkroom where students learn the art of photography from the ground up, as well as a digital computer lab and many professional-quality DSLR cameras to shoot and edit digital photographs.

We heartily encourage students to work together to learn and create works collaboratively that allow for students to learn from each other and from our visual arts educators – who have a combined 20-plus years of art education and training.

We engage students in real-world applications like designing for the school play (posters, t-shirts), creating logos, building props, and exploring issues in social justice and visual problem solving. Students also have the opportunity to explore life drawing with live models after school hours to develop drawing skills, materials exploration, and build solid, professional art and design portfolios.

Handsworth offers Advanced Placement art courses in 2D Art and Design, 3-Dimensional Design, and Drawing. These courses are designed for our artists who take their visual studies seriously. They develop a thematic body of work over the course of the year that is evaluated externally by the Advanced Placement board. Handsworth is the only school in North Vancouver that offers Advanced Placement courses in visual arts.

The Handsworth PAC has generously donated funds to allow us to grow our fantastic programs this year, allowing our students more opportunity with materials and equipment.

It is a pleasure to teach in such a diverse and rewarding field. We are fiercely proud of the artwork that our students are producing through experimentation and exploration of our resources here at Handsworth.

Visual Arts Courses

Visual Art 8

In Visual Art 8, students develop their creative skills through drawing, painting, printmaking, sculpting and design projects. Many materials are provided such as quality drawing papers and pencils, graphic pens, acrylic paints, clay, and prismacolor pencils. Students are guided to see the world from an artistic point of view and enhance their perception. They will draw from observation and are encouraged to create original designs and to use their imagination. Students are also exposed to the many career paths in today's art world, and the diverse practices of many contemporary artists working globally.

\$20.00 is charged for supplementary art materials.

Visual Art 9

Art 9 is a survey/foundations course that is an introduction to advanced courses. Skills in drawing, painting, design, ceramics and printmaking will be explored in more detail than in Visual Arts 8. Further exploration of the Elements and Principles of Art and Design will be incorporated into projects and guide how students construct and compose their works.

Originality will be emphasized and the history of art and material culture will be integrated into projects. Visual Arts 9 prepares students for senior art courses, but is not a prerequisite for other art courses in grades 10-12. \$30.00 for supplementary materials (including a high quality sketchbook)

Visual Art 10

Art 10 is a survey/foundation course that builds upon skills and strategies learned in Art 9 or Art 8. (Art 9 is not a prerequisite for this course). More

advanced skills in drawing, painting, design, ceramics and printmaking will be incorporated into the course. Materials may include pastels, water colours, graphite, charcoal, prismacolor pencil crayons, linocut printmaking, acrylics, pen and ink, and clay. The elements and principles of art and design will be explored in art assignments, and originality will be emphasized. Art history and the importance of art practice will be incorporated into projects. Visual Arts 10 allows students to immerse more fully in their practice as developing artist and makers.

\$30.00 for supplementary materials (including a high quality sketchbook)

Studio Arts 2D 10 (Drawing and Painting)

This course is designed to develop drawing skills, with painting as a focus during the latter part of the year. Pencil, charcoal, ink, conte crayon, graphic markers, chalk pastels, oil pastels, watercolour and acrylic paints are some of the mediums used. Composition and design principles will be applied to still life, landscape, figure drawing, abstract subject matter, and projects based on art-historical standards. Drawing from observation will be emphasized, as this skill is required for post-secondary art studies.

Recognized artists as role models, innovators, and inspiration will be discussed.

\$40.00 for supplementary materials (including a high quality sketchbook and watercolour paper)

Studio Arts 2D 11/12

This course helps students to develop skills toward a more competent and independent level. Observation in drawing skills will be emphasized and abstraction will play a greater part in student work. During the second part of the year, portraiture, figure drawing and personal imagery will be encouraged and the student will be introduced to more varied materials like oil stick, experimental printmaking, and wooden surfaces. Students will research and study several artists and will develop critiquing skills. No

prerequisite. NOTE: If you need to develop a portfolio for University or Art School, this course is imperative.

\$40.00 for supplementary materials (including a good quality sketchbook and oil-based materials)

Studio Arts 3D 10 (Ceramics & Sculpture)

In Art Studio 3D 10 students will develop sculptural skills, and understanding of visual culture as these relate to three-dimensional media. Techniques will include hand-building methods in clay such as coil and slab construction, wire and papier mache sculpture, mold-making and casting processes used in industry, surface development methods, and design elements and principles. Projects will focus on considerations for audience, artistic influences, exhibition and documentation of the design process. Studying visual culture will include knowledge of artists, artworks, and movements in ceramics and sculpture across a variety of contexts and time periods.

\$40.00 for supplementary materials

Studio Arts 3D 11/12 (Ceramics & Sculpture)

This course is an advanced extension of Art Studio 3D 10. Students will develop skills to a more professional level. Portfolio pieces, necessary for acceptance to Post-Secondary Art Institutions, can be developed. Self-directed study is encouraged during the second part of the year. Students will use clay, plaster, wood, fabric, and other exciting materials. Students working at the senior level will be expected to complete additional and more sophisticated works.

\$40.00 for supplementary materials

Art Studio 11/12

In this course, students engage in a variety of art- and image-development processes and strategies. Students will paint, sculpt, draw, create print editions, and explore a variety of artists and movements that inform and inspire art practice. Students in Art Studio 11/12 will be well-prepared to develop portfolios, and understand the role of artists throughout history, and as contemporary innovators in society. This is a great course to take to explore art-making, art history, and contemporary practice that is cutting edge and always changing. New forms of personal imagery and ideas will be encouraged and incorporated into the course. This is a great course for students who want to work with a variety of materials and processes.

\$40.00 for supplementary materials (including a quality, larger sketchbook)

Graphic Art 11

In Graphic Arts 11, students apply drawing and design skills to both hypothetical and actual design problems. Technical and content-based instruction may include: the design principles and design process; digital media (Illustrator, Photoshop, InDesign); conventional media (marker, collage, paint renderings); and traditional printmaking (linocut, screen-printing). These tools, techniques, and knowledge will be applied to graphic artworks such as logos, posters, illustrations, and graphic fiction. Students will complete projects both individually and as members of design teams, much like real world graphic design professionals.

\$35.00 for supplementary materials (includes a sketchbook and printer inks)

Graphic Arts 12

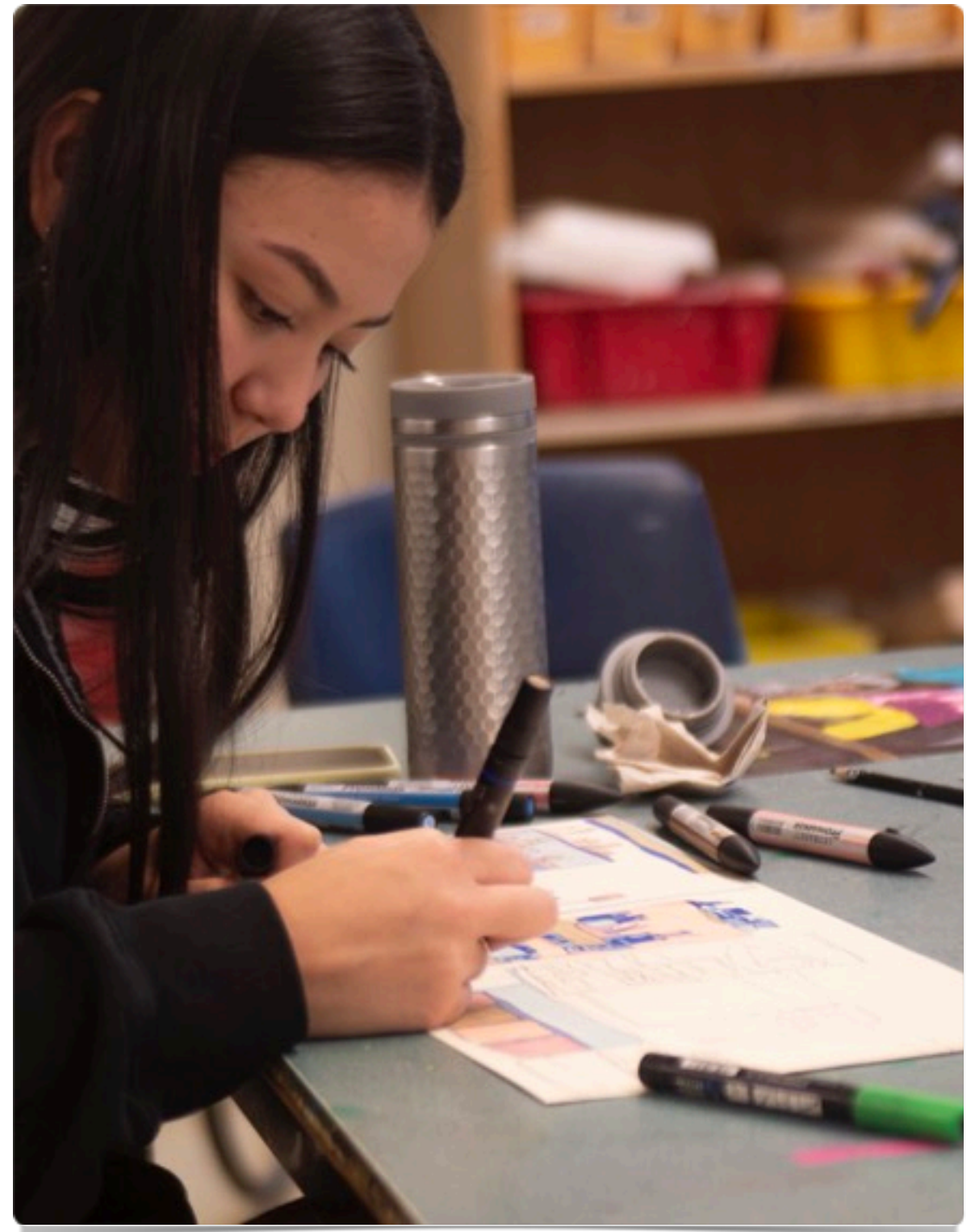
Graphic Arts 12 is an advanced commercial art course in which students will be expected to expand on design skills from the previous courses in a more independent fashion. Students will review the design process and principles of design, allowing them to engage in assignments that are both, client-oriented as well as self-directed. They will use graphic arts media (e.g., traditional printmaking, industry-standard graphic design software, Adobe PhotoShop and Illustrator) to explore meaningful projects that have the potential to affect change. Designing logos and illustrations for the community and the school are examples of such topics. Students will also begin exploring opportunities and career pathways of professional graphic artists.

Strongly recommended pre-requisites: Graphic Arts 11, Art Studio 11 or 12 or Drawing and Painting 11/12

\$35.00 for supplementary materials (includes a sketchbook and printer inks)

AP Studio Art: Drawing

The AP Studio Art course is designed for students who are seriously interested in the practical experience of art. AP Studio Art sets a national standard for performance in the visual arts that contributes to the significant role the arts play in academic environments. The AP Drawing course is designed to address a very broad interpretation of drawing issues and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth are drawing issues that will be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. Abstract and observational works will be expected to demonstrate drawing competence. Students will be expected to complete the AP Drawing portfolio by submitting a collection of 15 images of their process from the year (digital images of their pieces and experiments). Students investigate one inquiry question of their choosing and create work around that idea for the year. Students are recommended



to have previous art experience to take this course.

\$50.00 for supplementary materials (including a good quality sketchbook, paint, paper, and printer ink); \$150 Exam Fee for portfolio evaluation by the Advanced Placement Board in the United States. Students who score highly enough with the AP Board will receive 3 university credits, applicable to post-secondary institutions.

AP 2-D Art & Design Portfolio

The AP 2D Art & Design course is designed for students who are seriously interested in the practical experience of art. AP Studio Art sets a national standard for performance in the visual arts that contributes to the significant role the arts play in academic environments. This course is intended to address two-dimensional (2-D) design issues. Students are asked to demonstrate mastery of 2-D design through many two-dimensional mediums and processes, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, illustration, painting, and printmaking. Students will be expected to complete the AP 2D Art & Design portfolio by submitting a collection of 15 images of their process from the year (digital images of their pieces and experiments). Students investigate one inquiry question of their choosing and create work around that idea for the year. Students are recommended to have previous art and design experience to take this course.

\$50.00 for supplementary materials (including a good quality sketchbook and inkjet ink); \$150 AP Exam Fee for portfolio evaluation by the Advanced Placement Board in the United States. Students who score highly enough with the AP Board will receive 3 university credits, applicable to post-secondary institutions.

AP 3-D Design Portfolio

The AP 3D Design course is designed for students who are seriously interested in the practical experience of art. AP Studio Art sets a national standard for performance in the visual arts that contributes to the significant role the arts play in academic environments. This course is intended to address three-dimensional (3-D) design issues. Students are asked to demonstrate mastery of 3-D design through many three-dimensional mediums and processes (like clay, wire, paper, fabric, fashion/clothing, cardboard, wood, etc.). Students will be expected to complete the AP 3D Design portfolio by submitting a collection of 15 images of their process from the year (digital images of their pieces and experiments). Students investigate one inquiry question of their choosing and create work around that idea for the year. Students are recommended to have previous art experience to take this course.

\$50.00 for supplementary materials (including a good quality sketchbook and inkjet ink); \$150 AP Exam Fee for portfolio evaluation by the Advanced Placement Board in the United States. Students who score highly enough with the AP Board will receive 3 university credits, applicable to post-secondary institutions.

Language Arts

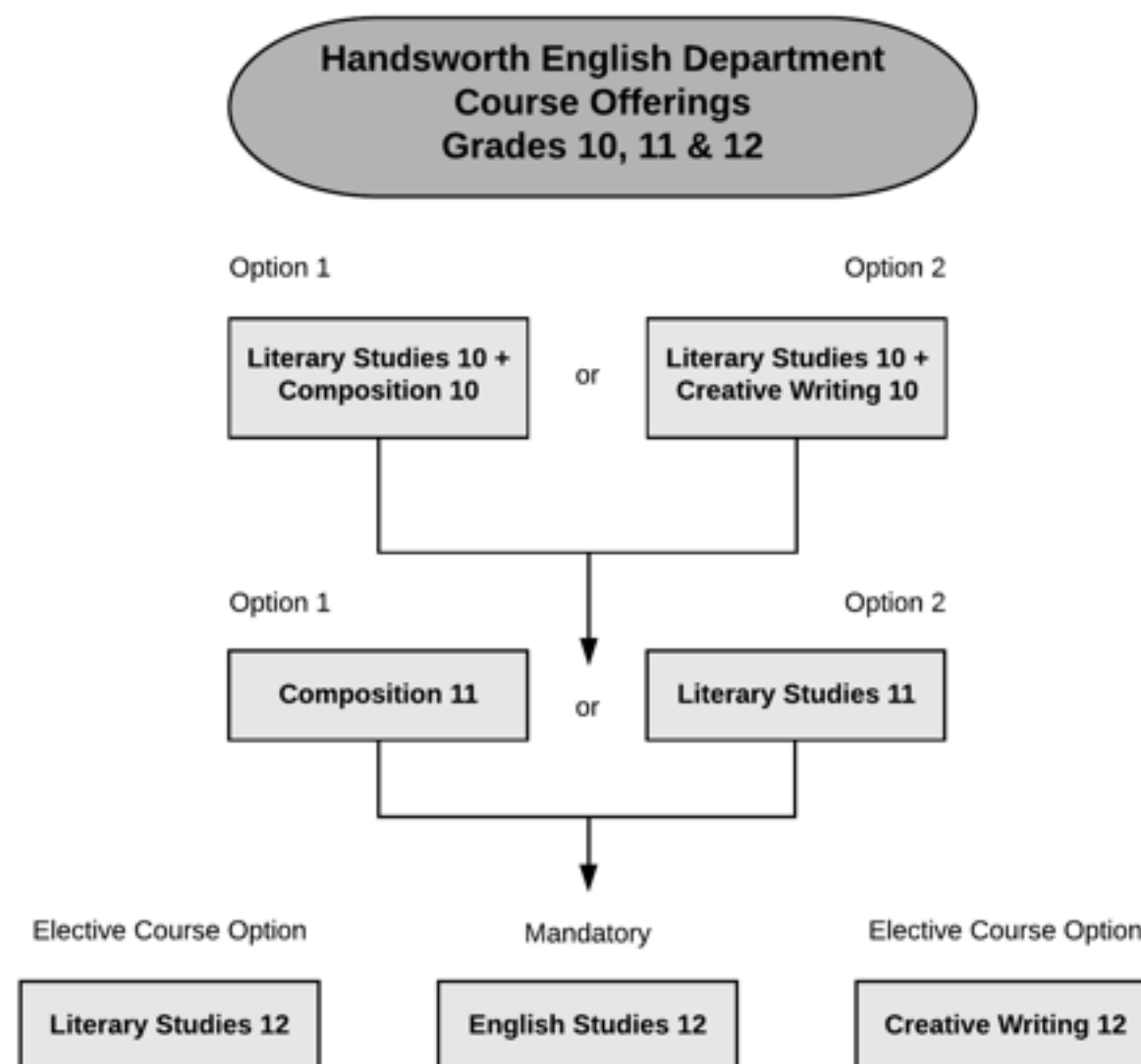
GENERAL PROGRAM DESCRIPTION

The general goals of English are the enjoyment of literature and the development of thinking and communication skills. These skills and content are ever-relevant in the modern world in various ways including forms of entertainment (via the creation of story and character in TV, film, music, and gaming), in various aspects of the business world (within presentations, marketing, and entrepreneurship), and in active citizenship (creating and analyzing arguments about a variety of local and world affairs). Understanding rhetorical tools and formats allows us to more actively articulate and engage with ideas. Speaking, listening, and writing are foundational skills that cross curricular boundaries and disciplines. Add to all of this the enjoyment of literature and we become fuller, more understanding human beings as we reflect on ourselves and the world around us.

Course Descriptions:

Humanities 8

Humanities 8 is an integrated approach to studying English and Social Studies. The course includes complete coverage of both the English Language Arts 8 and Social Studies 8 curricula while emphasizing common elements between the two based on human patterns and themes. Major units include the study of geography, history, and culture as well as those involving the acquisition of language arts skills through the practice



of written and oral communication and the study of literature--including novels, short stories, myths, and poetry.

English Language Arts 8

English Language Arts 8 provides students with the opportunity to become effective communicators, to develop and express their own ideas, and to think deeply and critically about the ideas of others. Major units involve the acquisition of language arts skills through the practice of written and oral communication and the study of literature--including novels, short stories, myths, and poetry.



English Language Arts 9

English 9 builds on the skills developed in English 8. Students will explore connections between informational, story, multimodal, and poetry texts. Through writing, discussion, and creative projects, students will learn how to apply appropriate strategies to comprehend various texts and

guide inquiry while developing critical thinking skills. Emphasis will be placed on developing an awareness and appreciation of the diversity within society, including First Peoples, and how varying situations and perspectives are represented in texts. Students will continue to develop their paragraph and creative writing skills, and will be introduced to the expository essay format. There will be continued focus on how to refine texts to improve their clarity, effectiveness, and impact.

Literary Studies and Composition 10

Literary Studies allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works. Students will plan, develop and create coherent, purposeful compositions. The focus in this course includes formal academic writing such as persuasive and synthesis essays, and to a lesser extent, narrative essays.

Literary Studies and Creative Writing 10

Literary Studies allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works. Students will plan, develop and create coherent, purposeful compositions. The focus in this course includes various creative forms of writing such as fiction and narrative essay writing, and, to a lesser extent, writing forms such as persuasive and synthesis responses.

Composition 11

Composition 11 is designed to support students as they refine, clarify, and adjust their written communication through practice and revision. Students will read and study non-fiction and fiction compositions by other writers and be exposed to a variety of styles as models for the development of their writing. The course provides opportunities for students to study, create, and write original and authentic pieces for a

range of purposes and audiences. They will expand their competencies through processes of drafting, reflecting, and revising to build a body of work that demonstrates expanding breadth, depth, and evidence of writing for a range of situations.

Literary Studies 11

Literary Studies 11 balances a study of literature and other media (including non-fiction) with developing academic writing skills in preparation for post-secondary studies and for life-long learning. Students will work on improving their writing, speaking, and presentation skills through close reading of a variety of genres: the novel, short stories, poetry, non-fiction and drama. The course will continue to expand students' development as educated global citizens; help students to develop balance and broaden their understanding of themselves and the world; and further develop higher-level thinking and learning skills. The major goals of the course are for students to be able to read for enjoyment and to achieve personal goals and to develop strong writing and communications skills to prepare them for whatever future they may choose.

English Studies 12

English Studies 12 is a mandatory course for graduation. Students will participate in an in-depth study of literary and non-fiction texts, including those from the perspective of Canada's First Peoples. While exploring thematic elements and stylistic techniques, students will engage in critical, creative, and reflective practices. As they explore a variety of purposes and audiences in meaningful formal writing activities, students will improve the clarity, impact, and effectiveness of their writing.

English Studies 12 TP: Theatre and Performance

English 12 TP covers the same curriculum as English Studies 12 (see English Studies 12 course description) with students who are typically

enrolled in a senior theatre, dance or tech production course. Students enrolled in English TP will be heavily involved in a complex theatre-making process, which may involve scriptwriting, choreographing, designing, and/or stage managing. Over the course of a year, students work collaboratively to co-create and perform an original play or an original interpretation of a play. Since 2000, the students' plays have been performed annually at Centennial Theatre. Overall English 12 TP provides the opportunity for



students to inquire as a learning community and to explore the themes, topics, and connections that organically arise from the students' reading and writing assignments in the English 12 Studies curriculum and the students' collective co-creation. While not required, typically students enrolled in English 12 TP are also enrolled in Directing and Script Development 12, Theatre Production 12, or Dance 12.

Creative Writing 12

Creative Writing 12 is an elective course designed for students who are interested in creating a body of work reflective of a sophisticated breadth and depth of skill. The course provides students with opportunities to specialize and publish in real-world contexts. Students engage in the exploration of personal and cultural identities, memories, and stories, in a wide range of genres. Within a supportive community, students will collaborate and develop their skills through writing and design processes, celebrating successes. Students will refine their ability to write in complex, controlled styles with effectiveness and impact.

Literary Studies 12

Literary Studies 12 is a course for those wishing to explore English literature from its very beginnings. Students will examine work from a range of authors-- including those who are familiar to high school students such as Shakespeare and those who might be less familiar such as Chaucer, Milton, Keats, and T.S. Eliot. The course will begin with the deep, historical roots of English literature and move toward the works of the modern and diverse literary community. Students will have endless opportunities to use their critical thinking skills to engage with the written word as they investigate the origins of literature, through discussion, debate, and creative exercises. Throughout, they are bound to find common ground with people of the past and present alike. Questions about the nature of existence--and about love and life--have transcended the ages through text. It is through the study of literature that students are able to connect with the wisdom of previous generations while asking broader questions about who they are in relation to present and future peoples.

Modern Languages

GENERAL PROGRAM INFORMATION

Core French

Welcome / Bienvenue to the Core French program! We offer a variety of engaging courses for students at all levels. Our courses provide opportunities for students to explore Francophone culture in addition to learning the elements of the language. See below for more information about each of the courses offered.

Spanish

Welcome / Bienvenidos to the Spanish program! Our courses offer students at all grade level the unique opportunity to explore Hispanic culture in addition to learning the elements of the language. We will be still offering a Beginners' Spanish course for students in Grades 10 and 11 (BSP11), with follow up courses in Grades 11 and 12. The classes are designed for beginner to intermediate levels of skill and language ability, with the language of instruction being both in Spanish and English. See below for more information about each of the courses offered.

Modern Languages Courses

French 8

French 8 is an exciting introductory course for Core French students. It focuses on the exploration of basic French, Francophone culture, and communication skills development. Students will have access to many different resources including the *Discovering French Nouveau Bleu* textbook, online resources and other texts.





French 9

French 9 continues the study of Core French begun in French 8. Students will have access to many different resources including the *Discovering French Nouveau Blanc* textbook, online resources and other texts. Language elements are reviewed and expanded, and vocabulary is enriched through authentic Francophone texts, songs, stories, videos and experiences. Students will continue to expand their knowledge of Francophone culture and develop their communication skills.

French 10

French 10 offers Core French students a third year of French language development. Students will have access to many different resources

including the *Discovering French Nouveau Blanc* textbook, online resources and other texts. Language elements are reviewed and expanded and vocabulary is enriched through authentic Francophone texts, songs, stories, videos, and experiences. Students will continue to expand their knowledge of Francophone culture and develop their communication skills.

French 10 Enriched

French 10 Enriched offers the same curriculum as French 10 with additional opportunities for language development. Students will have access to many different resources including the *Discovering French Nouveau Blanc* textbook, online resources and other texts. Language elements are reviewed and expanded, and vocabulary is enriched through authentic

Francophone texts, songs, stories, videos and experiences. Students will continue to expand their knowledge of Francophone culture and develop their communication skills with more of an emphasis on speaking and listening skills than the Core French 10 program.

French 11

French 11 offers students a comprehensive Core French course that builds on their language development and communicative skill development from French 8-10. Students will have access to many different resources including the *Discovering French Nouveau Rouge* textbook, online resources and other texts. Language elements are reviewed and expanded, and vocabulary is enriched through authentic Francophone texts, songs, stories, videos and experiences. Students will continue to expand their knowledge of Francophone culture and develop their communication skills.

French 11 Enriched

French 11 Enriched offers the same curriculum as French 11 with additional opportunities for language development. This is a comprehensive core French course that builds on students' language development and communicative skill development from French 8-10. Students will have access to many different resources including the *Discovering French Nouveau Rouge* textbook, online resources and other texts. Language elements are reviewed and expanded, and vocabulary is enriched through authentic Francophone texts, songs, stories, videos and experiences. Students will continue to expand their knowledge of Francophone culture and develop their communication skills. This class offers more opportunity for listening and speaking skill development than the French 11 course.

French 12

French 12 provides Core French students a unique fifth year of French language development. This elective course offers students the opportunity to explore language and culture through discussions,

compositions, literature, research and continued communicative skill development. This course builds on the language and cultural understandings that were acquired in French 8-11. *Successful completion of this course often provides students with first-year language requirements at many universities.



French 12 Enriched

French 12 Enriched is an alternative to the French 12 course. It also provides Core French students a unique fifth year of French language development. This particular elective course offers students not only the opportunity to explore language and culture through discussions, compositions, literature, research, and continued communicative skill development, but it also offers more opportunities to improve the students' speaking and listening comprehension skills. This course builds on the language and cultural understandings that were acquired in French 8-11. *Successful completion of this course often provides students with first-year language requirements at many universities.

Spanish 9

This introductory course in Spanish is designed for students in Grade 9. While working with the *En Español 1* program, students will learn basic grammar such as the present tense, adjectives, and sentence structure. Students will also be able to practice basic conversation skills where the focus is speaking about family, friends and hobbies. In addition, students will have the opportunity to explore in greater depth Hispanic culture from around the world, such as traditions, customs and celebrations. Upon successful completion, students will continue on to Spanish 10.

Spanish 10

This is the follow-up course to Spanish 9! Students are supported in their development of basic communication skills in Spanish. Students will continue their use of *En Español 1*, where they will work on sentence structure and conversation building, as well as their exploration of Hispanic culture. Upon successful completion, students will continue on to Spanish 11.

Beginning Spanish 11

This introductory level Spanish course has been developed for senior students in grade 10, 11 or 12. While working with the *En Español 1* program students will learn basic grammar such as the present tense, future tense, adjectives, interrogative pronouns, etc. Students will also be able to practice basic conversation skills where the focus is on speaking about family, school, friends, and hobbies. In addition, students will have the opportunity to explore Hispanic culture from around the world, such as traditions, customs and celebrations. This is a faster-paced course that covers more content than Spanish 9 and 10. Upon successful completion, students will continue on to Spanish 11.

Spanish 11

Spanish 11 is a continuation of either Spanish 10 or Beginning Spanish 11. Students will begin to expand their ability to use Spanish in real-world situations such as travelling to foreign destinations, exploring Hispanic cultures (ie: market day in Oaxaca, Mexico) and talking about past experiences. Students will expand their grammar knowledge through real life, everyday vocabulary used to communicate realistic situations. Students will be given many opportunities to build their confidence with their listening comprehension and verbal skills. Upon successful completion, students will continue on to Spanish 12.



Spanish 12

Spanish 12 is a continuation of the *En Español 2* program begun in Spanish 11. At this level, students will continue to expand their vocabulary and grammar knowledge by focusing ever-growing attention on listening comprehension and conversational skills. All of this is learned in the context of real life scenarios: going to the beach with friends, telling your

siblings what chores to do, shopping in Spain, planning for post-graduation, etc. Be amazed at how good your Spanish skills are after three or four years! *Successful completion of this course often provides students with first-year language requirements at many universities.

AP French Language

This course is designed to provide an advanced course to students who are willing to accept challenges to exceed their language abilities. The course will develop the four skills of listening, speaking, writing and reading equivalent to a college level course in French language. In the beginning of the year, students will be given the choice to either study a classical French play or create, as a group, their own original play and perform it to their peers as well as to other students from different schools. In March, students will study a classical novel. They will also be exposed to a variety of authentic materials such as textbooks, software, multimedia CD-Rom, Websites, articles from newspapers, as well as the French culture. Upon completion of French 12 AP (and after achieving a score of 4 or 5 on the AP exam), students may be granted credit at some universities (depending on each university's policies).

Optional AP Exam Fee \$150

Japanese 9

This is a stand-alone introductory course in Japanese designed to give students a basic understanding of conversational Japanese. Students will be introduced to Japanese writing and will learn to recognize the relationships between Japanese characters and sounds. Students will be able to describe similarities and differences between their own cultural practices and traditions and those of Japanese communities; they will also be able to engage in experiences with Japanese people and communities. By the end of the course, students will be familiar with common, high-frequency vocabulary and expressions. Although not a requirement, students with an interest in our grade 9 Japan Exchange are encouraged to register. Depending on enrolment, this course may be offered outside the regular timetable.

Business Education

GENERAL PROGRAM DESCRIPTION

Business is everywhere! Join us to get a head start on a career in the exciting, challenging world of business.

The Business Education Department at Handsworth offers a range of courses for students in Grades 9-12 that will prepare you for college and university business programs.

Students will learn a broad range of business knowledge including: computer applications (word, PowerPoint, excel), introduction to business and marketing, business ethics, personal finance, accounting, entrepreneurship, computer systems, to web design and technologies and more.

By teaching high school students the different subjects in business, they learn the intricacies of business and start to explore their business interests at a young age. Aside from using innovative educational content, we invite successful business people and professionals to share their knowledge with the students, allowing students to connect theory with practice.

Business Education Courses



Entrepreneurship & Marketing 9

This is an introduction to the world of business. This course introduces student to personal finance, budgeting, credit, banking, investments, real estate, corporate social responsibility, economics, marketing, ethics and legendary leaders of business. Students will use current events to further develop their understanding of course materials. Students will have an opportunity to participate in an online stock simulation competing with students across the country.

Entrepreneurship & Marketing 10

Entrepreneurship & Marketing 10 continues to look at the World of Business. Basic business concepts will be applied to help explain what is happening in the world around us. Students will cover a variety of topics including finance, economics, marketing, tourism and ethics. Students will have the opportunity to develop a business plan and learn the ropes of becoming an entrepreneur and how to best secure venture capital.

Marketing & Promotion 11

Students will look at the role of Marketing and the ways that Marketing and Promotion are used to persuade the public to buy a good or service. Students will learn how to design a Marketing Plan; the necessity and power of advertising; how to market at the different stages of the product life cycle; challenges of doing business across borders and the importance of E-Commerce. Students will look at the marketing and promotion involved with Sports Teams, the tourism industry and other Marketing Giants.

Marketing & E-Commerce 12

Students will look at the evolution of e-commerce and why it is such an important part of our economy. Local and global e-commerce environments will be explored as we look at what makes a successful marketing campaign, whether it be online or in a store. Students will look at how the Internet has become an important part of a company's advertising campaign. We will look at how companies can take advantage of our obsession with youtube, smart phones and all things digital.

Accounting 11

This course introduces students to basic accounting concepts: from accounting principles and concepts, such as, balance sheets, t-accounts, transaction analysis, revenue and expense accounts, income statements, and ledgers to applying these concepts to "real world" projects. Students will also gain knowledge of how services and products can be designed through consultation and collaboration. This course will also provide

students with employment skills at the entry level. Students are also introduced to the use of Excel and Simply Accounting.

Accounting 12

Accounting 12 continues with the Accounting skills learned in Accounting 11 (Accounting 11 is a required prerequisite). This course generates the understanding of the adjustment process, adjusting entries and the worksheet, preparing for New Fiscal Years, adjusting for depreciation, accounting for cash receipts, cash payments, and controls for cash, along with knowing, the cash flow statement a how to manage a spreadsheet for cash flow. Students will also gain financial literacy skills to promote the financial well-being of both individuals and businesses. This course will also provide students with employment skills at the entry level and knowledge of first year University Accounting courses. Students are also introduced to the use of Excel Simply Accounting.

Economics 12

Economics 12 will provide students with a practical background in Economics including both microeconomics and macroeconomics. Why do people behave the way that they do? How do we allocate scarce resources? Why are gas prices so high? How does the value of the Canadian dollar impact our life? Why do we care about interest rates? Students will learn the appropriate tools to measure and evaluate economic activity and its impact, learning to analyze different economic scenarios and identify potential issues and outcomes. This will include looking at the Canadian Economic system and identifying how it operates including the principles behind government and social policies. Students will look at local and global trends and how Canada is impacted by different economic policies. This course is a great introduction to Economics for students planning to study Economics at the University level.

AP Microeconomics

The purpose of the AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of Supply and Demand, Factor Markets, Market Structures, Costs of Production and how the government can intervene to promote greater efficiency and equity in the economy.

Particular emphasis is placed upon building economic theory at the university level in order to create a solid theoretical base for further economic inquiry.

Students will write the AP Exam in May and will receive their Exam mark in the summer. AP Exam Fee \$150

The Young Entrepreneurship and Leadership Launchpad (YELL)

The Young Entrepreneurship and Leadership Launchpad (YELL) provides students with a thorough understanding of how to apply entrepreneurial thinking to future studies, launching a business or entering the workforce post-secondary. Students interested in technology, entrepreneurship and innovation and those curious about how to put their ideas into action will benefit from the skills taught in this course as they prepare for life long success.

Why YELL?

- Students earn course credits for Entrepreneurship 12
- Work with teachers, business and community leaders and a mentor to design a student-led business concept.
- Connect with other business minded students and share ideas.
- Compete in a Venture Challenge to present their ideas to real-world investors and business leaders in the spring.
- Students planning to attend SFU can apply for SCU credits when entering any faculty

The course runs outside of the regular timetable after school for 2.5 hours and is divided into three semesters: Business Accelerator, Idea Incubator and a Venture Challenge.

The course runs on Tuesday, 3:30pm – 6:00pm, at Handsworth and on Monday, 3:30pm – 6:00 pm at Sutherland.

Students interested in signing up for YELL must complete an external application.

For more information about the YELL program: www.yellcanada.org

If you would like to find out more about this great program please contact Mrs. Johnson. Applications will be available online in the New Year.

Contact:

Sheri Johnson

Handsworth Secondary School

sjohnson@sd44.ca

Careers Education

Careers Program Courses

Careers 8

The Careers 8 curriculum is delivered through both large group assemblies and smaller group activities throughout the school year. Students will take part in a variety of activities and assemblies that will touch on goal setting, executive functioning, and the importance of healthy relationships. Students will also complete interest and skills inventories as they begin to consider careers of interest.

Careers 9

The Careers 9 curriculum is delivered through both large group assemblies and smaller group activities throughout the school year. Students will participate in Take Your Kids to Work Day spending the day at the workplace of a parent, relative, friend, or volunteer host. Students will also learn about career clusters while participating in a Junior Achievement workshop. Lastly, students will participate in a workshop on the value of volunteering.

Career Life Education 10

Career Life Education helps students prepare to be lifelong learners who can adapt to changing career opportunities. Through activities and course assignments students discover that successful career and education paths require planning, evaluating and adapting. Students also explore how a network of family, friends, and community members can support and broaden their career awareness and options.



Career Life Education 10 applies to all students. Students must complete Career Life Education 10 in order to satisfy graduation requirements.

Career Life Connections 12 & Capstone Project

Career Life Connections 12 and the Capstone Project require students to reflect on their knowledge and abilities, and to plan for life after graduation. Students will begin to learn about this course in Career Life Education 10. Students will participate in a variety of activities and mandatory seminars outside of the regular timetable to support the curriculum and the development of the Capstone Project.

All students must complete mandatory assignments, 30 hours paid or unpaid work experience, and the Capstone Project and presentation to complete the course. This is a graduation requirement.

WORK EXPERIENCE and APPRENTICESHIPS

The primary goal of Work Experience and Apprenticeships is to help students prepare for the transition from Handsworth Secondary to the world of work. Students have the opportunity to observe and practice the employability skills required in today's workplace as well as technical and applied skills relating to specific occupations or industries.

Other goals include helping students to:

- Connect what is learned in the classroom with the world of work.
- Find out if a specific career is really what they think it is.
- Develop job readiness skills for specific occupations and careers.
- Understand the similarities and differences in behaviour standards between the workplace and school.
- Build their resumes and skills to help open up other employment opportunities.
- Gain a variety of experiences and build their "basket of skills."

Placements can include traditional work sites, seasonal events...the opportunities are endless.

Work Experience 12A

Work Experience helps students prepare for the transition from secondary school to the world of work or further education and training. During Grade 11 and/or 12, students are placed with local employers in positions that align with their interests and future career goals. The community becomes the classroom where students gain experience in the workplace and are provided with a frame of reference to review or revise their career goals. Work experience is comprised of pre-placement classroom activities combined with 90 hours at a community worksite.

Work Experience 12B

Students who have completed Work Experience 12A and want to continue to try new opportunities can enroll in Work Experience 12B. Students are able to build on what they learned in 12A and complete an additional 90 hours of Work Experience in the community.

Youth Train in Trades / Youth Work in Trades

Thinking of a Career in the Trades? Want to start earning hours towards an Apprenticeship? Want to earn money while earning credits towards graduation?

The Train in Trades program is a career program that provides students with the opportunity to begin their apprenticeship training while attending high school. The student will receive 4 credits towards graduation for every 120 hours completed on the job site, in a paid, supervised position, to a maximum of 16 credits or 480 hours. Apprenticeship hours can be completed in a number of ways including after school, weekends, holidays, or in classes where it can be accommodated in the school timetable, during school time.

Trades currently in demand: Carpenters, Construction Millwrights, Cooks, Electricians, Heavy Duty Mechanics, Heavy Equipment Operators, Painters & Decorators, Plumbers, Sprinkler System Installers, Steamfitters & Pipefitters and Welders.

For more information, visit the ITA website at <https://www.itabc.ca/>

Mathematics

General Program Description

There are a variety of Math courses offered at Handsworth. The main goals of all Mathematics courses offered in BC are based on the curricular competencies of:

- Communicating & representing;
- Reasoning & modelling;
- Understanding & solving;
- Connecting and reflecting.

For more information on course content, curricular competencies and “Big Ideas” see ‘Building Student Success – BC’s New Curriculum’.

Students should consider their interests, both current and future when choosing a pathway after grade 9. Students and parents are encouraged to research the admission requirements for post-secondary programs of study as they vary by institution and by year.

Grade 8 – All students are enrolled in Math 8.

Grade 9 – Generally students will follow Math 8 with Math 9. A second option of Math 9 Numeracy is available for students who had difficulty in Math 8 (this course leads to Workplace 10).

Grade 10 – At the grade 10 level, there are 2 distinct pathways offered. Workplace Math 10 will lead to Workplace Math 11. Foundations & Pre-Calculus 10 will lead to either Foundations 11 or Pre-Calculus 11.



Grade 11 – At the grade 11 level, there are 3 distinct pathways offered. Workplace 11, Foundations 11 and Pre-Calculus 11. This is the last year mathematics is required for graduation.

Grade 12 – At the grade 12 level, there are 4 elective math courses offered. Students should continue in the pathway they chose in Grade 11 and take Foundations 12 or Pre-Calculus 12. In addition, students enrolled Pre-Calculus 12 can concurrently or sequentially take Calculus 12 or AP Calculus 12.

NOTE ON THE USE OF CALCULATORS

Any student who is unable to perform arithmetic calculations and algebraic operations with accuracy and reasonable speed is at a significant disadvantage in the study and application of mathematics. The use of calculators makes the performance of complicated calculations less tedious, but does not lessen the need for students to understand which concepts and operations are needed to solve a problem, to make sensible estimates, and to analyze their results.

Math Courses

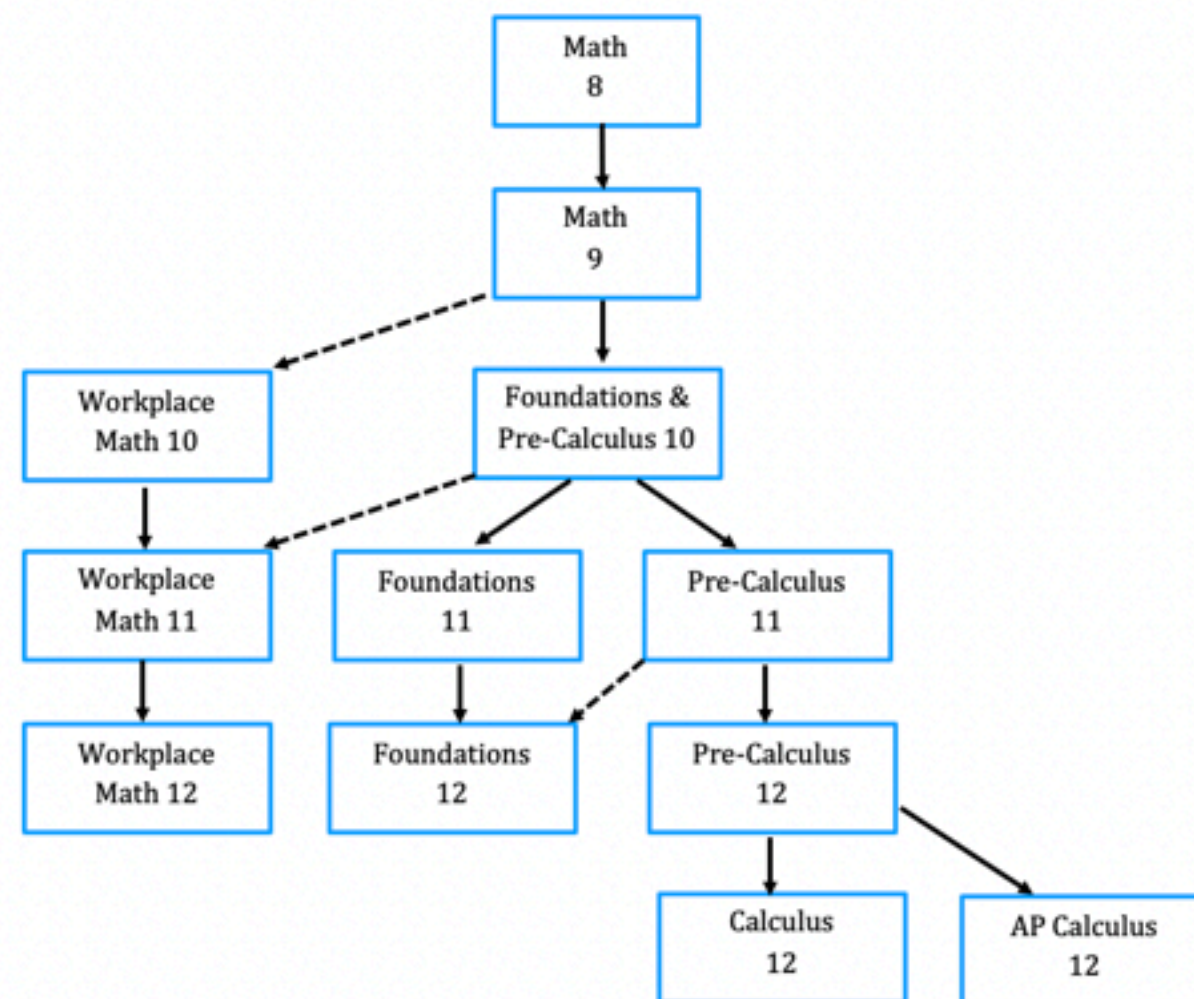
Mathematics 8

Topics include perfect squares and cubes, square and cube roots, percents, financial literacy, proportional reasoning, operations with fractions, discrete linear relations and expressions, two-step equations, 3-D Object Geometry (Nets, surface area, volume), Pythagorean Theorem, central tendency and theoretical probabilities.

A scientific calculator is recommended but not necessary as there is an emphasis placed on developing number skills with fractions and decimals.

Math Department Flow Chart

Flow Chart of offered Math Courses:



Note:

- **Solid lines** represent the most common pathways
- **Dashed lines** represent common variations to these pathways
- See the grade counselor and current math teacher to discuss any alternate pathways.

Mathematics 9

Topics include operations with rational numbers, exponents and exponent laws, operations with polynomials, two variable linear relations, multi-step one variable relations, spatial proportional reasoning, statistics in society and financial literacy. Scientific calculators are required.

Workplace Mathematics 10

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 workforce.

Topics include graphing, primary trigonometric ratios, metric and imperial measurement and conversions, surface area, volume, central tendency, experimental probability, and financial literacy of gross and net pay.

NOTE: Students with a mark of C- or lower in Math 9 are strongly encouraged to take this course.

Foundation of Mathematics and Pre-Calculus 10

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in mathematics. This course leads to either Foundations of Mathematics 11 or Pre-Calculus 11.

Topics include operations on powers with integral exponents, prime factorization, functions and relations, linear functions, arithmetic sequences, systems of linear equations, multiplication of polynomial expressions, polynomials factoring, primary trigonometric ratios, financial literacy of gross and net pay. Scientific calculators are required.

NOTE: A minimum mark of C in Mathematics 9 is very strongly recommended

Workplace Mathematics 11

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 in the workforce.

Topics include financial literacy of personal investments, loans, and budgeting; rate of change; probability and statistics in different contexts; interpreting graphs; and geometry of 3D objects including angles, views and scale diagrams.

NOTE: Students who took Workplace Math 10 or students who earned 55% or lower in Foundations & Pre-Calculus 10 are strongly encouraged to take this course.

Foundation of Mathematics 11

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 calculus. Topics include: forms of mathematical reasoning; angle relationships; graphical analysis of linear inequalities; quadratic functions; systems of equations; optimization; applications of statistics; scale models; and financial literacy of compound interest, investments, and loans. A Texas Instruments TI-83/84/85 calculator may be recommended for the course.



Pre-Calculus 11

This pathway is designed to provide students with the mathematical understanding and critical thinking skills identified for post-secondary studies in programs that require the study of mathematics and calculus (eg: Business, Science, Math and Engineering). Topics include: real number system; powers with rational exponents; radical operations and equations; polynomial factoring; rational expressions and equations; quadratic functions and equations; linear and quadratic inequalities; trigonometry of non-right triangles and angles in standard position; and financial literacy of compound interest, investments, and loans.

NOTE: A minimum mark of C+ in Foundations and Pre-Calculus 10 is strongly recommended. A Texas Instruments TI-83/84/85 calculator is highly recommended for the course.

Foundations of Mathematics 12

This course is designed to provide students with the mathematical understanding and critical-thinking skills identified for post-secondary studies in the arts or the humanities. Topics include: geometric explorations of constructions; conics; fractals; graphical representations of polynomial logarithmic, exponential, and sinusoidal functions; regression analysis of these functions; combinatorics; odds, probability and expected value; and financial planning.

NOTE: A minimum mark of C+ in Foundations of Math 11 or Pre-Calculus 11 is very strongly recommended. A Texas Instruments TI-83/84/85 calculator is highly recommended for the course.

Pre-Calculus 12

This course is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into math based post-secondary programs that require the study of calculus (eg:

Business, Science, Math or Engineering). Topics include: transformations of functions; exponential functions and equations; geometric sequences and series; logarithmic functions and equations; polynomial functions and equations; rational functions; and trigonometric functions equations and identities.

NOTE: A minimum mark of C+ in Pre-Calculus 11 is very strongly recommended. A Texas Instruments TI-83/84/85 calculator is highly recommended for the course.

Calculus 12

This course is recommended for students interested in taking post-secondary calculus or pursuing careers in many diverse disciplines such as the biological and physical sciences, mathematics, business and engineering. Its purpose is to make the transition from high school calculus to technical school, college or university calculus less extreme.

Topics in Calculus include: limits and continuity; and differentiation and integration of algebraic, exponential, trigonometric and logarithmic functions. Practical applications of these skills as they apply to business, physics and statistics are also pursued. Students enrolling in this course must also be taking Pre-Calculus 12 or have previously completed Pre-Calculus 12.

NOTE: A minimum mark of a B in Pre-Calculus 11 is very strongly recommended. A Texas Instruments TI-83/84/85 calculator is highly recommended for the course.

AP Calculus – AB

An advanced placement course in Mathematics consisting of work in Calculus and related topics comparable to courses in colleges and universities. It is expected that students who take AP Calculus will be

taking calculus at the university level. Topics covered in this course are similar to the ones in Calculus 12, but are covered more in depth.

The AP Calculus - AB examination will be written in early May. Students who are planning on writing the AP Calculus exam in May must be prepared to put in extra time over and above what is assigned in class. Students in AP calculus will receive a school mark for AP Calculus even if they do not write the AP Calculus exam in May however, they cannot use a school mark to be granted a university credit. If they achieve a score of 4 or 5 on the AP exam, students may be granted credit at some colleges and universities.

NOTES: There is a fee to write the AP Calculus exam.

AP Calculus is intended for students who have already completed the Pre-Calculus 12 course, preferably with a minimum mark of an A.

Physical Education

Physical and Health Education Courses

Physical and Health Education 8

Physical and Health Education 8 is designed to develop the student's holistic understanding of health and well-being. Students in PHE 8 will participate in different types of physical activities, sports and games. This activity based play allows students to develop knowledge, skills and the mindset to remain physically active and healthy over their lifetimes providing the benefits of a healthy lifestyle. In addition to activity, there is an added focus on the non-physical aspects of social and mental well-being, individuality, and overall health.

Fee of \$25 for supplementary materials

Physical and Health Education 9

Physical and Health Education 9 continues to develop the student's holistic understanding of health and well-being. Students in PHE 9 will participate in physical activities, sports and games designed to further reinforce the development of movement education, active living, as well as personal health and social responsibility. Students will engage in learning activities designed to improve their understanding of the components of a healthy lifestyle and their understanding of mental health.

\$25 for Supplementary Materials

Physical and Health Education 10

Physical and Health Education 10 is the culminating year of our junior PHE program at Handsworth. Students in PHE 10 will continue to participate in different types of both indoor and outdoor physical activities, sports and



games. This activity based play reinforces the development of movement education and active living. Students improve upon the skills and techniques learned in the earlier grades while also learning more complex skills and concepts. While continuing to improve upon their own physical literacy, PHE 10 students will also focus on their own personal fitness and well-being. They will begin to understand fitness from the point of view of their own strengths, weaknesses and personal preferences. Finally, students will engage in learning activities designed to improve their understanding of the components of a healthy life – their relationships with others, their own emotional and mental health, and the effects of health upon our society.

\$30.00 for Supplementary Materials



Physical and Health Education 10: Dance

For students who wish to focus on dance, get fit through fun dance combos and participate in the bi-annual "Hands Up" dance performances. Dance

technique and performance skills are embodied and developed in a variety of genres or styles such as contemporary, lyrical, jazz, hip hop, etc. Dancers will collaborate through critical reflection, creative co-operation, and the exchange of ideas. An emphasis will be placed on promoting healthy living habits such as exercising as lifelong benefits. Come discover the fun in dancing! Course Fee of \$15

Active Living 11/12

Active Living 11 is an extension of the junior PHE program. Like junior PHE, students will participate in activities which further reinforce the development of movement education, active living and personal and social responsibility. As well, there is an added focus on the non-physical aspects of activity– finding recreational activities that can be enjoyed beyond the classroom, developing good safety practices to ensure lifelong participation in physical activity and overall good health and well-being. Please note that there is a fee associated with some off-campus events. Students are responsible for transportation to and from events.

Fee of \$50.00 for supplementary materials





Athletic Leadership 11/12

Athletic Leadership 11/12 is a Handsworth specific course designed for highly motivated students who wish to enhance their leadership skills while working within the Handsworth Athletic Program. Students will be part of a Student Athletic Department that will work closely with the Handsworth Athletic Coordinator, as well as coaches and athletes to enhance the athletic opportunities for Handsworth students. Athletic Leadership students will support varsity teams, promote student athlete recognition, coordinate and help with sport officiating, organize and run intramural programs and promote school athletics and events. Students are expected to be available for numerous athletic events which occur outside the regular school day.

Physical and Health Education 10: Fitness and Conditioning

Physical and Health Education 10: Fitness and Conditioning

Physical and Health Education 10: Fitness and Conditioning course is primarily a resistance training class that focuses on improvement with physical function. A student works with a training plan and sets goals in an effort to be quicker, faster, and stronger. The goal is safe whole body improvement with an emphasis on core stability. The class is hard work and demands desire and commitment. The opportunity to individualize your training plan is a benefit to each student. The course will also touch on additional areas of fitness such as nutrition, rest, life skills, goal setting, physiology, and training principles. This course is a good fit for student

athletes who wants to improve physical function or students who would like to improve how they feel about their body and their fitness.

\$5.00 for supplementary materials, guest instructors, and outside classes.

Fitness and Conditioning 11/12

Fitness and Conditioning 11/12 course is an extension of Physical and Health Education 10: Fitness and Conditioning. Students can continue with their physical development. Students can strive for individualized goals with regards to improvement in physical fitness and physical performance. Fitness and Conditioning 11/12 is a physically and mentally demanding course that offers earned rewards for the motivated.

\$5.00 for supplementary materials, guest instructors, and outside classes.

Fitness and Conditioning 10/11/12 - Girls

Fitness and Conditioning 10/11/12 - Girls course is primarily a resistance training class that focuses on improvement with physical function. A student works with a training plan and sets goals in an effort to be quicker, faster, and stronger. The goal is safe whole body improvement with an emphasis on core stability. The class is hard work and demands desire and commitment. The opportunity to individualize your training plan is a benefit to each student. The course will also touch on additional areas of fitness such as nutrition, rest, life skills, goal setting, physiology, and training principles. This course is a good fit for the student athlete who wants to improve physical function or any student who would like to improve how she feels about her body and their fitness. The girls Fitness and Conditioning 10/11/12 - Girls block is a desire to cater more to girls and improve the environment for girls to work on their fitness.

\$5.00 for supplementary materials, guest instructors, and outside classes.

Science

GENERAL PROGRAM DESCRIPTION

Science and scientific literacy play a key role in educating you today for the world you will live in tomorrow. Science courses develop your abilities to think critically, solve problems, and make ethical decisions; to communicate your questions, express your opinions, and challenge your ideas in a scientifically literate way; and to exercise an awareness of your role as an ecologically literate citizen, engaged and competent in meeting the responsibilities of caring for living things and the planet.

Scientifically literate citizens are able to use scientific evidence, as well as their knowledge from other areas of learning, to develop their own views, discuss and debate, and make informed decisions in their daily lives and about broader issues, while maintaining their curiosity and wonder about the natural world.

Science courses include content from biology, chemistry, physics, earth and space sciences, anatomy and physiology, and environmental science.



Science Courses



Science 8

Science 8 is an introduction to four disciplines: Biology, Chemistry, Physics, and Earth Science. At the start of this course, students learn proper Laboratory Procedures and Equipment use. Observation and Analysis are skills developed in this lab oriented course. Topics covered include Processes of Science, Cells and Systems, Optics, Kinetic Molecular Theory, Atomic Theory, and Plate Tectonics. A year-long Science Fair Project assesses the six curricular competencies that are the foundational skills of all Science courses.

Science 9

Science 9 continues the study of Biology, Chemistry, Physics, and Earth Science. Observation and analysis are skills developed in this lab oriented course. Topics covered include cell division and reproduction, the periodic table with elements and compounds, electricity, matter cycles, and sustainability with a focus on First People's knowledge.

Science 10

Science 10 extends knowledge of Biology, Chemistry, and Physics with the addition of Space Science. Observation and analysis are skills developed in this lab oriented course. Topics include genetics, diversity, chemical reactions, energy transformation during motion, local and global impacts of energy from technology, nuclear energy, and the formation of the universe.

Life Sciences 11

This course is all about the study of life. Topics include the scientific method, cell biology, evolution and adaptation, classification and taxonomy. Students will examine viruses, bacteria, protists, plants and animals. This course explores plants and animals, from simple to complex, involving microscopic analysis and dissection. It is strongly recommended that students planning on taking Anatomy and Physiology 12 and/or post-secondary studies in Biology, enrol in Life Sciences 11.



Anatomy and Physiology 12

This biology course involves a study of human cell biology and the human body systems. Topics include: biochemistry, cell biology, human physiology of major body systems. Students will benefit from completing Chemistry 11 and Life Sciences 11 prior to taking this course.

Physics 11

Physics 11 includes kinematics, dynamics, energy, circuits, and waves. Kinematics is the study of motion, while dynamics is the study of the forces that cause motion. Energy takes many forms and is always conserved. The circuits unit will explore the rules of series and parallel circuits. Lastly, the waves unit investigates phenomena such as light and sound. Students will develop critical thinking skills through solving problems in familiar and unfamiliar situations. Students will also build skills in observation, measurement and analysis through hands on laboratory experiment.



Physics 12

The Physics 12 is an algebra-based course geared towards those students interested in the fundamental understanding of physical phenomena. The three disciplines covered are Newtonian Mechanics, Electromagnetism, and Relativity. In Newtonian Mechanics students will explore 2-D momentum, circular motion, gravitation and equilibrium. From Electromagnetism students will study electrostatics, electricity, and magnetism. In relativity, students will learn about Einstein's theory of Special Relativity. Students will develop critical thinking skills through solving problems in familiar and unfamiliar situations. Students will also build skills in observation, measurement and analysis through hands on laboratory experiment.

It is recommended that the student has achieved 70% or higher in Physics 11 and have a strong background in mathematics.

Environmental Science 12

Students in grades 11 or 12 are eligible to take this Ministry approved Environmental Science 12 course which looks at key areas and ideas that will shape the future of our Earth. The course explores four big ideas, all looking at how human actions affect the environment we live in: Water - 100% necessary for life. How do our human actions affect the quality of water and its ability to sustain life? How do our human activities (like industry, travel, etc) affect our global climate and impact climate change? Sustainable land use is essential to feed and house our growing population. The final topic in this course is to look at how sustainable living supports the well-being of self, community and the Earth. Students will have the opportunity to explore these topics from a local and personal lens, considering personal and community responsibilities that will shape future ecosystems.

Chemistry 11

Chemistry 11 extends the student's knowledge of chemistry concepts, skills, and techniques. Topics include the mole concept, solutions, chemical reactions and organic chemistry. Considerable laboratory time is spent on experiments, developing skills in observation, and measurement and analysis techniques. Problem solving, chemical calculations and lab report writing skills are also developed throughout this course. This course requires confidence with mathematical calculations.

Chemistry 11 Enriched

The course will cover a general introduction to chemistry, the mole concept, reactions and stoichiometry, states of matter, atomic structure and bonding, solutions and their properties, as well as basic organic chemistry. Many topics are covered in greater depth than the regular Chemistry 11 course, and the course has a faster pace. It is recommended students considering Chemistry 11 Enriched have a strong standing in Science 10 (MSC-10), Math 10 (MFMP-10), and are strongly advised to consult with, and receive the recommendation of, their current science teacher. Students planning to take Chemistry 12 AP in the future are encouraged to take this course.

Chemistry 12

Chemistry 12 is a continuation of concepts, calculation skills, experimental and report techniques developed throughout the Chemistry 11 course. Topics include reaction kinetics, chemical equilibrium, solubility, acid-base chemistry, and oxidation / reduction. Skill development continues in laboratory work and formal report writing as well as continued work in measurement, mole calculations and chemical reaction calculations. Students are expected to elaborate on their understanding, using content-specific language. (Students are recommended to have completed the Chemistry 11 course with a C+ or higher.)

AP Chemistry

Topics include reaction kinetics, chemical equilibrium, solubility equilibrium, acid-base chemistry and electrochemistry. It is a fast-paced course, intended for students planning a career in the sciences and engineering fields. Students taking ACHE-12 have the option of writing the AP Chemistry examination in mid May. Upon completion of AP Chemistry 12 (and after achieving a score of 4 or 5 on the AP exam) students may be granted credit at some colleges and universities.

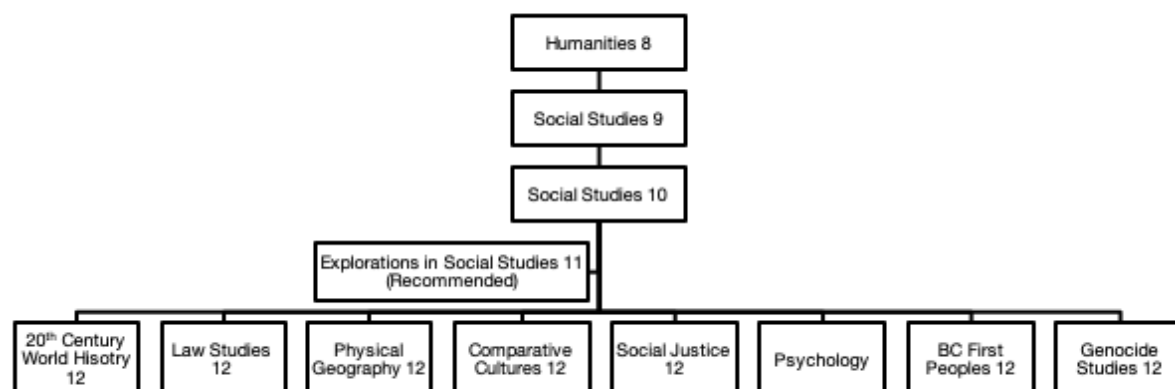
\$150.00 AP Exam Fee

Social Studies

General Course Description

The general goals of Social Studies are the development of thinking and communication skills through the study of various aspects of history, geography, and culture. Students examine major patterns of conflict, change, cooperation, and development while, above all, reflecting on the historical importance of various peoples' attempts to be endowed with rights and respect while also improving society overall. Key skills for emphasis include written and oral communication, critical thinking, personal development, and social responsibility. These skills and content are ever-relevant in the modern world in various ways as active citizenship requires individuals to create and analyze arguments about a variety of local and world affairs. Furthermore, various occupations and industries depend upon knowledge and understanding of the content and patterns embedded within the disciplines of geography, law, history, and psychology; these include: the entertainment industry (TV, film, literature, and gaming); the business world (marketing, product-development, law, and entrepreneurship); and the building and resource industries (architecture, urban planning, and resource-management) to name a few.





Social Studies Courses

Humanities 8

Humanities 8 is an integrated approach to English 8 and Social Studies 8. The course includes complete coverage of both the English 8 and Social Studies 8 curricula while emphasizing common elements between the two based on human themes and processes. Major units include the study of geography, history, and culture as well as those involving the acquisition of language arts skills through the practice of written and oral communication and the study of literature--including novels, short stories, myths, and poetry.

Social Studies 9

The purpose of Social Studies 9 is to develop student's growth as creative and knowledgeable Canadians and world citizens. It is an inquiry process that offers students the opportunity to develop, reinforce and expand upon geographical and historical knowledge, and skills that were introduced in Humanities 8. The critical thinking skills introduced will allow for information gathering from various sources; analyzing and interpreting resource; presenting and justifying your position on issues; decision-making; and working cooperatively with others. The Social Studies

9 curriculum includes current events, social issues and philosophies that influence the development of democracies in Europe and North America from the 18th to 20th centuries.

Social Studies 10

Social Studies 10 will build on the skills, processes, and themes introduced and developed in earlier Social Studies and Humanities classes to develop students as active and responsible Canadian and Global citizens. The critical thinking skills reinforced will allow for information gathering from various sources; analyzing and interpreting resources; presenting and justifying positions on issues; and informed decision making. Social Studies 10 will focus on the 20th century conflicts, events and forces that have shaped modern Canadian politics, political systems and the modern Canada Identity. First Nations culture and histories are also explored.

Explorations in Social Studies 11

Explorations in Social Studies 11 will explore elements of Law Studies, Social Justice, Twentieth Century World History, Human and Physical Geography, Comparative Cultures, and Asian Studies. In doing so, students will get the chance to sample aspects of the senior Social Studies electives that they may wish to pursue the following year. This is a recommended course for all grade 11 students.

Psychology 12

* Please note that this course does not fulfill the Grade 11/12 Social Studies requirement, as it is a locally developed course.

Psychology 12 is a course about human nature. Students will try to unravel some of the mysteries of why people behave, think and feel as they do. Course content includes psychological theories, adolescent development, personality and abnormal psychology. Students will be encouraged to further their critical thinking skills in the evaluation of psychological

theories and issues. Class participation and the development of research skills play a large role in student success in this course.



20th Century World History 12

History 12 is an interesting, academic elective that provides a comprehensive study of the major events of the 20th Century. From the close of WW1 through the inter war years of Boom and Bust, WW II and the Cold War era of Nukes and Proxy wars such as Vietnam, to the post-Cold War new world order, we'll look at how those events continue to impact our 21st century world today. Our investigation will not be limited to North America and Europe, but will also include Asia, Africa, the Middle East and Latin America. This provocative course allows students to discuss and debate past and current affairs along-side providing future opportunities to link history to life-long learning as they embark on the next chapter of their life's journey.

Physical Geography 12

Geography 12 is a practical course that offers students a closer look at the systems that affect our planet. The course will combine concepts related to physical geography, human geography, and may also explore urban studies. Thus, we will examine a variety of global concepts: weather and atmospheric science; climate change and its impacts on Canada and the rest of the world; weathering and the formation of the earth's crust; and earthquakes and their associated phenomenon. Students will learn how human populations affect the earth and its interconnected systems. Case studies pertaining to natural resource management, environmental sustainability, city design and land use will allow students to gain a better understanding of the world and our place in it. Walking field studies and a variety of media and film will be used in this course.

Social Justice 12

This student-directed course provides students the opportunity to explore social justice movements and take action on the issues that matter to them. Social movements that may be investigated include: basic human rights, Indigenous rights, civil rights, eco-justice, gender and equity, LGBT2Q+ equality, and issues of globalization and unequal development. As well as inquiring into historical and contemporary social justice movements that continue to shape our world, students put their learning into practice. Throughout the year, students analyze different methods of creating social change and test out these methods by collaboratively creating a social justice campaign of their own. Whether it is many small campaigns focusing on different issues, or one larger project, this elective provides students with the vocabulary and theory to create meaningful change in their current and future communities.

Law Studies 12

Law Studies 12 introduces students to the basics of Canadian Law: our judicial system, court procedure, criminal law, civil law, and youth law. During the year, students will be exposed to several famous cases, prominent guest speakers, and student debates. Involvement is essential as actual cases, and discussions are frequently utilized to provoke thought.

Comparative Cultures 12

Comparative Cultures 12 is a unique history course as it allows students to immerse themselves in the day-to-day life of people from pre-modern times. We cover topics including: mythology and religious belief; citizenship and government; social class and status; and gender roles (including ideals, status, and 'heroes'). We also discuss: cultural traditions, entertainment, and past times; art and architecture; and major historical events. Our focus civilizations often include, but are not limited to, Classical Greece, Ancient Rome, Ancient Egypt, the Maya, the Vikings, and Feudal Japan. We compare these to each other and our own modern society as the class defines, evaluates, and reflects upon the nature of civilization. This course may be particularly useful for students who foresee careers in film, business, marketing, gaming, design, etc. as these civilizations continue to inspire entertainment, brands, designs, and trends throughout the modern world.

BC First Peoples 12

BC First Peoples 12 explores the richness and diversity of BC's numerous First Nations cultures. Through a multidisciplinary field, students will examine important historical, cultural, social and political realities that have and continue to impact the lives of Aboriginal peoples in Canada. Guest artists, field trips and authentic teaching and learning methods are used for enrichment whenever possible. On completion of the course, students will have gained valuable cultural knowledge for themselves and

excellent preparation for university level anthropology and social science studies.

Genocide Studies 12

Genocide Studies is an interesting new course offering at Handsworth. Students will examine atrocities that have had political, social and cultural ramifications. Topics may include the Armenian genocide, Collectivization in the USSR, the Holocaust, Rwandan genocide, cultural genocide, and current problem spots around the world. Students will learn that intentional destruction of peoples and their cultures is not inevitable, and such attempts can be disrupted and resisted. Genocides share similarities and targeting groups of people continues to challenge global peace and prosperity.



English Language Learners

English Language Learners Courses



ELL Beginner 8-12 (English for Language Learners 8-12)

This is the foundation course for ELL or International students in the beginning, developing, and expanding phases of English language learning. This course focuses on building social and academic vocabulary, improving grammar, developing sentence and paragraph structure, and improving speaking and listening skills. This course can be taken by ELL or International students at any grade level. Upon completion of this course, an individual assessment is done by the ELL specialist to determine the next placement for each student.

Language Strategies 10-12

This course is designed to enable ELL or International students to learn strategies and extend skills in the four main language areas of reading, writing, listening, and speaking. Designed for expanding and consolidating language learners, this course provides opportunities to acquire and practice the strategies necessary for successful reading and writing across the curriculum. Students will explore how language is used to enable growth, communication, and academic success.

Studies in BC Culture

This course develops the ELL or International student's ability to analyze and think deeply about the nature of human societies and our relationship to the environment and one another. The course will provide students with the reading, writing and oral skills necessary to explore the diverse beliefs, expectations, and values of the modern citizen. BC Culture is recommended for ELL or International students who are expanding and consolidating their English language skills.

ELL Seminar

This small-group lunch time seminar is designed to provide language support for consolidating and expanding language learners who no longer require a direct block of ELL support. This seminar focuses on extending language skills and strategies for academic success and creating a community of learners. Upon completion of this course, an individual assessment is done by the ELL specialist to determine the next placement for each student.

Applied Skills

Applied Skills Courses.

Applied Design, Skills and Technology Rotation (Grade 8s)

Applied Design, Skills and Technology Rotation includes three courses that run for approximately 3 months. Grade 8 students have a choice of two ADST package options.

Students are provided an opportunity to engage in each of these practical areas of study.

ADST 8 Rotation: Robotics

Robotics 8 is one-term course offered in conjunction with a term each of Computational Thinking and Entrepreneurship and Marketing. This course focuses on uses of robotics in local contexts, types of sensors, user control systems, and the use of schematics for assembling circuits. This course will also cover the identification and application of basic electronic components through the design and construction of simple circuits.

ADST 8 Rotation: Textiles

Textiles 8 is a one-term course offered in conjunction with a term each of Woodwork and Computational Thinking. This course examines sources of textile materials, hand and machine construction techniques for producing and/or repairing textile items, basic components of patterns and instructions, colour as an element of design, and personal factors that influence textile choices, including culture and self-expression, and the impact of those choices on individual and cultural identity.



ADST 8 Rotation: Woodwork

Woodwork 8 is a one-term course offered in conjunction with a term each of Textiles and Computational Thinking. This course examines the historical and current contexts of woodworking. Students will develop the skills to identify characteristics, and properties of a variety of woods, both manufactured and natural, and explore elements of plans and drawings, woodworking techniques, and options for reuse of wood and wood products.

ADST 8 Rotation: Computational Thinking

Computational Thinking 8 is a one-term course offered in conjunction either with a term each of Textiles and Woodwork, OR a term each of Robotics and Entrepreneurship and Marketing. This course explores

software programs as specific and sequential instructions with algorithms that can be reliably repeated by others, debugging algorithms and programs by breaking problems down into a series of sub-problems, and programming languages, including visual programming in relation to text-based programming and programming modular components. Students in Computational Thinking will develop foundational computer skills used throughout their high school education.

ADST 8 Rotation: Entrepreneurship and Marketing

Entrepreneurship and Marketing 8 is one-term course offered in conjunction with a term each of Computational Thinking and Robotics. This course examines characteristics of entrepreneurial activity, recognition of a market need and identification of target market, development of a product or service, including its features and benefits, forms of advertising and marketing that can influence a potential customer or buyer, differences between consumer wants and needs, and the role of money management in financing an idea or developing a product. This is a project-based course that will end in a ‘Shark Tank’ style competition.

Textiles 9

This course builds upon the skills introduced from Life skills 8 Textiles. Students will analyze sewing methods, different seam finishes and design ideas while creating several useful garments and handy textile items. While developing their garment or item, consideration will be given to the social, environmental and ethical impact their textile will have on the local and global communities. Throughout the year, projects are decided upon in consultation with the classroom teacher. Students typically finish four projects such as a zippered toiletries kit, a hoodie, a small knitted project and an independent choice project.

Students are expected to know the following:

- Range of uses of textiles
- Variety of textile materials



- Hand construction techniques for producing and/or repairing textile items
- Consumer concerns that influence textile choices, including availability, cost, function (waterproof), and textile care.

Course Fee of \$15

Textiles 10

This course is designed to build upon the skills introduced from Textiles 9. Students will identify sources of inspiration and will work towards developing textile designs with consideration to how tools and materials can be effectively repurposed and recycled. As students learn and build upon their previous skills and understanding of the different materials they have available, they will learn new skills and techniques which will allow them to challenge themselves through the creation of increasingly complex products or prototypes. Throughout the year, projects are decided upon in consultation with the classroom teacher. Students typically finish three major projects.

Students are expected to know the following:

- Natural and manufactured textiles, including their origins, characteristics, and care
- Hand and machine construction techniques for producing and/or repairing textile items, including First Peoples textile practices.



- Strategies for altering patterns and upcycling
 - Principles of design used in the design of a textile item.
 - Environmental and ethical factors that influence textile choices, and the impact of those choices on local and on global communities
- Course Fee of \$15

Textiles 11

This course is designed to build upon the skills introduced from Textiles 10. Students will learn information about pattern design and manipulation in the creation of textile

items. Students will explore the influence of social media, culture, sustainability and ethics in the design, manufacturing and advertising of fashion products. Consideration will also be given to the process of up cycling fabrics and garments in order to repurpose existing items using a variety of tools and techniques. Throughout the year, projects are decided

upon in consultation with the classroom teacher. Students typically finish three major projects.

Students are expected to know the following:

- Physical and chemical properties of fabrics, including technological developments
- Strategies for modifying patterns
- Techniques for repurposing textile items
- Various factors that affect the selection of textile items, including the elements and principles of design and textile functionality
- Symbolism in textile prints and designs, including those of First Peoples.
- Economical and ethical issues in textile production and consumption
- Influence of marketing and advertising, such as social media, in the promotion of fashion and textile items.

Course Fee of \$15

Textiles 12

This course will focus on building the skills and techniques learned in textiles 11. Students will create increasingly complex textile items which will allow them to refine and develop their understanding of different fabrics and design principles as well as various methods of garment construction. Consideration will be given to how fabric type and origin relate to end use products and their life cycle. Students will also investigate how different policies and guidelines influence the production and sale of textile items.

Students are expected to know the following:

- Relationship between fibre content, fabric type, and textile use
- Methods for designing patterns
- Textile manipulation techniques
- Legislation, regulations, and agencies that influence production, labeling, and distribution of textile items

- Historical uses of textile items and their influence on modern textile use, including those of First Peoples
- Forecasting practices and how they are used in the development and creation of textile items.

Course Fee of \$15

Foods Studies 9

In Food Studies 9, students will use design cycle principles to explore the practical and theoretical elements of food. Students will explore the basic components of meal preparation (ingredients, techniques, equipment), kitchen and food safety, nutrition, food labelling, recipe design, and meal planning. Students will gain the confidence necessary to make empowered food choices and cook delicious meals from scratch.

Fee of \$60.00 for supplementary material

Foods Studies 10

In Food Studies 10, students will use design cycle principles to explore the practical and theoretical elements of food. Students will explore the components of meal preparation (ingredients, techniques, equipment), kitchen and food safety, nutrition, food labelling, economic and environmental factors that influence food choices, food systems, cultural food practices, First Peoples traditional foods, recipe design, and meal planning. Students will gain the confidence necessary to make empowered food choices and cook delicious meals from scratch.

Fee of \$60.00 for supplementary material

Foods Studies 11

In Food Studies 11, students will use design cycle principles to explore the practical and theoretical elements of food. Students will explore the components of meal preparation (ingredients, techniques, equipment), kitchen and food safety, food labelling, food marketing, economic and environmental factors that influence food choices, food guides, First

Peoples traditional foods, cultural appropriation, recipe design, and meal planning. Students will gain the confidence necessary to make empowered food choices and cook delicious meals from scratch.

Fee of \$65.00 for supplementary material



Foods Studies 12

In Food Studies 12, students will use design cycle principles to explore the practical and theoretical elements of food. Students will explore the components of meal preparation (ingredients, techniques, equipment), kitchen and food safety, nutrition, economic and environmental factors that influence food choices, food systems and security, food justice and sovereignty, cultural appropriation, food policy, and multi-course meals. Students will gain the confidence necessary to make empowered food choices and cook delicious meals from scratch.

Fee of \$65.00 for supplementary material

Drafting 9

Drafting/Design Technology 9 students learn the basic techniques of drafting including orthographic and isometric drawing with an introduction to architectural drafting, design and industrial design. Through design, problem-solving skills are developed while working in a studio environment. With a computer at every station, emphasis will be placed on CAD (computer assisted drafting and design) using Auto Sketch, 3-D Rhino, Sketch Up and Chief Architect software.

\$20.00 for supplementary materials

Drafting 10

Drafting/Design Technology 10 students continue with the techniques of drafting with more emphasis on 3-D modelling. A project Based Learning methodology is used to have students explore the world of Architecture, Engineering and Industrial Design. With a computer at every station, emphasis will be placed on CAD (computer assisted drafting and design) using Auto Sketch, 3-D Rhino, Sketch Up and Chief Architect software.



\$20.00 for supplementary materials

Drafting 11

Drafting/ Design Technology 11 is a studio course which concentrates on both architectural design and engineering presentation techniques. The

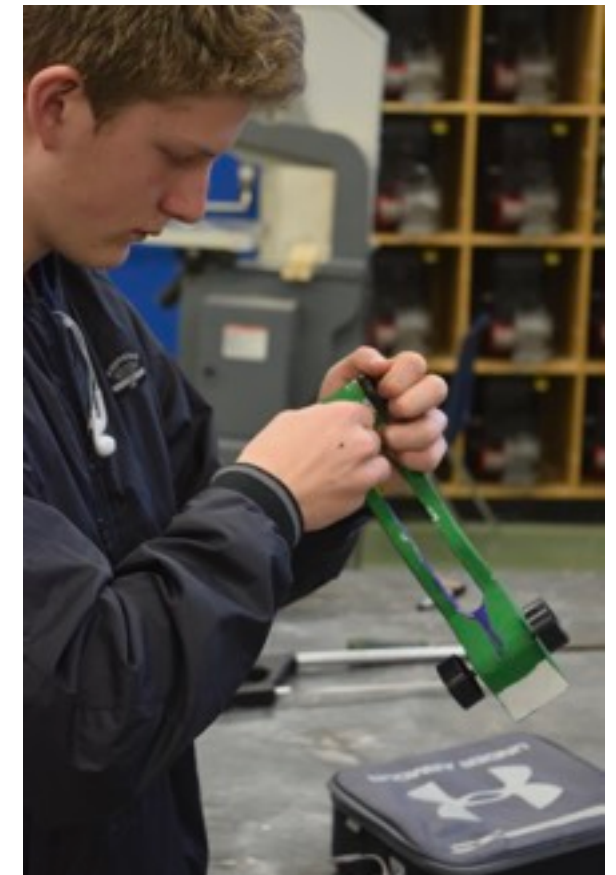
basic “Principles and Elements of Design” are introduced. Emphasis will be placed on CAD (Computer Assisted Design) using AutoCad2018, Chief Architect and 3-D Rhino6. Students are encouraged to explore the use of new technology including multi-media and 3-D imaging. Students will further develop their problem-solving skills and critical thinking skills while working both individually and in small groups. Completion of Drafting 10 would be an asset.

\$30.00 for supplementary materials

Drafting 12

Drafting/Design Technology 12 students will work on more advanced design projects that will include model making and the production of working drawings. Real world applications of design principles are emphasized. This is a studio course where students work on a major project incorporating both design principles and concepts with the use of technology. Students will work exclusively on computers using AutoCad2018, Revit, AC360, Chief Architect and Rhino6. Completion of Drafting 11 would be an asset.

\$30.00 for supplementary materials



Woodwork 9

Woodwork 9 is an introduction to the technology of woodworking. Through project construction, students will learn various methods of machine tool use, joinery, and finishing techniques. Students will also be introduced to the process of design as all students will model their projects using 3D CAD on the computer prior to construction. The safe and proper use of wood shop power tools is stressed throughout the course. The successful completion of Woodwork 9 is recommended prior to Woodwork 10.

\$50.00 for supplementary materials

Woodwork 10

Woodwork 10 is intended for students wishing to further their studies in woodworking. This course is suitable for students who have successfully completed Woodwork 9 or for grade 10 students who wish to take Woodwork 11. Skills and techniques learned in Woodwork 9 will be developed with project work. Emphasis on the Design Process will be explored, with all students modelling their projects in 3D CAD prior to construction.

*Guitar building can start during the second half of this course based on student knowledge and experience.

\$60.00* for supplementary materials

*Cost can vary depending on quality and configuration of guitar components.

Woodwork 11

Students will continue to explore the craft of cabinetmaking. Students may take on a self-directed project of their own choosing. In the past several years, many students have shown great interest in guitar building as a project selection. This project is not mandatory and is dependent on

student interest and skill level. Woodwork 10 is not a prerequisite, but is strongly recommended.

\$40.00* for supplementary materials

*Cost can vary depending on the selection of project.



Woodwork 12

Directed studies - Students will choose an emphasis in cabinetmaking, construction, or finishing. The instructor and student come together to plan out the years project(s).

Project and wood selection are determined based on experience and skill.

\$40.00* for supplementary materials

*Cost can vary depending on the selection of project.

Electronics, and Robotics 9

Electronics, and Robotics 9 is an introductory course which challenges students to explore various aspects of electronics and robotics in a hands-on fashion. We will investigate the use of tools, materials, and processes with an emphasis on safety and sustainability. Throughout the course students will have the opportunity to design, build, and test a variety of electronic and robotic projects. Some potential projects include an LED blinky and battle bots!

\$30.00 for supplementary materials

Power Technology 9

Power Technology 9 is a course which challenges students to explore various aspects of energy and power generation. In this course, students will learn about small engines, basic metal working skills, and have the opportunity to design projects that converts various forms of energy in a fun, hands-on environment. Some past projects include air boats, 2 and 4-stroke engine repairs, as well as electric motors. Safe work practices and environmental sustainability will be stressed.

\$30.00 for supplementary materials

Power Technology 10

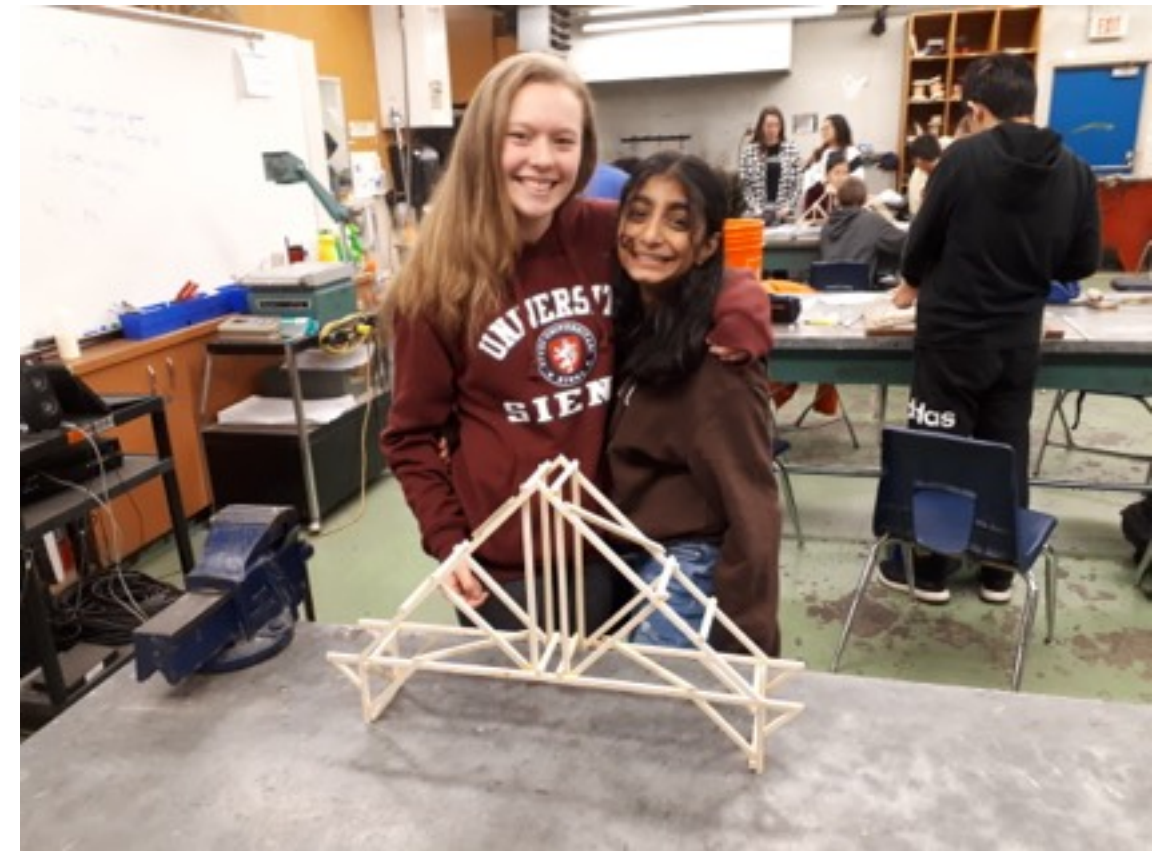
Power Technology 10 builds on the skills learned in Power Technology 9 however Power Technology is not a prerequisite. In this hands-on based course, students will learn about small engines, basic metal work skills, as well as have the opportunity to design projects that convert various forms of energy. Throughout this course, students will develop problem solving strategies by troubleshooting various power-generation devices. Safe work practices and environment sustainability will be stressed.

\$30.00 for supplementary materials

Engineering 11

Engineering 11 is a course designed to introduce the students to Engineering principles of design and problem solving in a hands-on fashion. The students will have the opportunity to explore various branches of engineering through the design, building, and testing of various projects with an emphasis on sustainability and environmental awareness. Potential topics include workplace safety, precision measurement, technical sketching and drawing, CNC machining, and the application of metalwork, woodwork, and electronics to solve various exciting design challenges!

\$30.00 for supplementary materials



Automotive Technology 11

Automotive Technology 11 teaches students the basic skills needed to understand, maintain, and repair automobiles. This course is not only intended for students thinking about a careers in the automotive trade but

teaches everyday life skills that can save a vehicle owner thousands of dollars in costly repairs! To get the most out of this course, students are encouraged to bring in their own cars or family members cars to inspect and service, however shop cars will be provided. This course will also introduce the student to trades such as metal working, fabrication, and welding.

\$30.00 for supplementary materials

Automotive Technology 12

Automotive Technology 12 takes a more in-depth look at the various automotive systems discovered in Automotive Technology 11. It is advised that students take Automotive Technology 11 before enrolling in Auto 12 however it is not a prerequisite. Students are expected to develop proficiency in automotive maintenance and repair. Prescribed labs as well as increased opportunity for self-directed work will be encouraged.

\$30.00 for supplementary materials

Advanced Placement

GENERAL PROGRAM DESCRIPTION

Students enrolled in Advanced Placement courses get a feel for the rigors of college/university level studies within the support of a high school environment. Students taking AP courses demonstrate to post-secondary admissions officers that they have sought out an educational experience that will prepare them for success at college/university and beyond.

Each AP course concludes with optional a college/university level exam developed and scored by post secondary faculty and experienced AP teachers. The exception to these exams is within the Studio Art stream, which requires the submission of a portfolio of their work. The AP organization charges a fee of \$150.00, to be paid by the student, for each exam.

Students who are successful in AP courses are able to enroll directly into the second year course at the post-secondary institution they attend, subject to the policies of that institution.

For more information about Advanced Placement go to:
<http://apcentral.collegeboard.com/home>

AP Courses

AP Computer Science Principles

Students in AP Computer Science Principles will learn about the underlying principles of Computation and IOT (Internet of Things). The course covers a broad range of foundational topics such as programming, algorithms, the internet, big data, digital privacy and security, and the societal impacts of computing. The computer language used will be App Lab (Based on



JavaScript with Text or Block-Based functionality). APCSP is a directed study course (code.org) with a heavy emphasis on research and peer review.

The course is meant to be the equivalent of a first-semester university or college course in Computer Science. Students taking this course are recommended to complete Computer Information Systems 12 or Computer Programming 12 or have equivalent programming experience with JavaScript or Java. Upon completion of AP Computer Science Principles (and after achieving a score of 4 or 5 on the AP exam) students may be granted credit at some universities.

Optional AP Exam Fee \$150

AP French Language

This course is designed to provide an advanced course to students who are willing to accept challenges to exceed their language abilities. The course will develop the four skills of listening, speaking, writing and reading equivalent to a college level course in French language. In the beginning of the year, students will be given the choice to either study a classical French play or create, as a group, their own original play and perform it to their peers as well as to other students from different schools. In March, students will study a classical novel. They will also be exposed to a variety of authentic materials such as textbooks, software, multimedia CD-Rom, Websites, articles from newspapers, as well as the French culture. Upon completion of French 12 AP (and after achieving a score of 4 or 5 on the AP exam), students may be granted credit at some universities (depending on each university's policies).

Optional AP Exam Fee \$150

AP Studio Art: Drawing

The AP Studio Art course is designed for students who are seriously interested in the practical experience of art. AP Studio Art sets a national

standard for performance in the visual arts that contributes to the significant role the arts play in academic environments. The AP Drawing course is designed to address a very broad interpretation of drawing issues and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth are drawing issues that will be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. Abstract and observational works will be expected to demonstrate drawing competence. Students will be expected to complete the AP Drawing portfolio by submitting a collection of 15 images of their process from the year (digital images of their pieces and experiments). Students investigate one inquiry question of their choosing and create work around that idea for the year. Students are recommended to have previous art experience to take this course.

\$50.00 for supplementary materials (including a good quality sketchbook, paint, paper, and printer ink); \$150 Exam Fee for portfolio evaluation by the Advanced Placement Board in the United States. Students who score highly enough with the AP Board will receive 3 university credits, applicable to post-secondary institutions.

AP 2-D Art & Design Portfolio

The AP 2D Art & Design course is designed for students who are seriously interested in the practical experience of art. AP Studio Art sets a national standard for performance in the visual arts that contributes to the significant role the arts play in academic environments. This course is intended to address two-dimensional (2-D) design issues. Students are asked to demonstrate mastery of 2-D design through many two-dimensional mediums and processes, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, illustration, painting, and printmaking. Students will be expected to complete the AP 2D Art & Design portfolio by submitting a collection of 15

images of their process from the year (digital images of their pieces and experiments). Students investigate one inquiry question of their choosing and create work around that idea for the year. Students are recommended to have previous art and design experience to take this course.

\$50.00 for supplementary materials (including a good quality sketchbook and inkjet ink); \$150 AP Exam Fee for portfolio evaluation by the Advanced Placement Board in the United States. Students who score highly enough with the AP Board will receive 3 university credits, applicable to post-secondary institutions.

AP 3-D Design Portfolio

The AP 3D Design course is designed for students who are seriously interested in the practical experience of art. AP Studio Art sets a national standard for performance in the visual arts that contributes to the significant role the arts play in academic environments. This course is intended to address three-dimensional (3-D) design issues. Students are asked to demonstrate mastery of 3-D design through many three-dimensional mediums and processes (like clay, wire, paper, fabric, fashion/clothing, cardboard, wood, etc.). Students will be expected to complete the AP 3D Design portfolio by submitting a collection of 15 images of their process from the year (digital images of their pieces and



experiments). Students investigate one inquiry question of their choosing and create work around that idea for the year. Students are recommended to have previous art experience to take this course.

\$50.00 for supplementary materials (including a good quality sketchbook and inkjet ink); \$150 AP Exam Fee for portfolio evaluation by the Advanced Placement Board in the United States. Students who score highly enough with the AP Board will receive 3 university credits, applicable to post-secondary institutions.

AP Chemistry

Topics include reaction kinetics, chemical equilibrium, solubility equilibrium, acid-base chemistry and electrochemistry. It is a fast-paced course, intended for students planning a career in the sciences and engineering fields. Students taking ACHE-12 have the option of writing the AP Chemistry examination in mid May. Upon completion of AP Chemistry (and after achieving a score of 4 or 5 on the AP exam) students may be granted credit at some colleges and universities.

Optional AP Exam Fee \$150

AP Calculus – AB

An advanced placement course in Mathematics consisting of work in Calculus and related topics comparable to courses in colleges and universities. It is expected that students who take AP Calculus will be taking calculus at the university level. Topics covered in this course are similar to the ones in Calculus 12, but are covered more in depth. AP Calculus is intended for students who have already completed the Pre-Calculus 12 course, preferably with a minimum mark of an A.

The AP Calculus - AB examination will be written in early May. Students who are planning on writing the AP Calculus exam in May must be prepared to put in extra time over and above what is assigned in class. Students in AP calculus will receive a school mark for AP Calculus even if

they do not write the AP Calculus exam in May however, they cannot use a school mark to be granted a university credit. If they achieve a score of 4 or 5 on the AP exam, students may be granted credit at some colleges and universities.

Optional AP Exam Fee \$150

AP Microeconomics 12

The purpose of the AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of Supply and Demand, Factor Markets, Market Structures, Costs of Production and how the government can intervene to promote greater efficiency and equity in the economy.

Particular emphasis is placed upon building economic theory at the university level in order to create a solid theoretical base for further economic inquiry.

Students will write the AP Exam in May and will receive their Exam mark in the summer. AP Exam Fee \$150