



# Cedar Community Secondary School

## Home of the Spartans

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# ***CALENDAR***

## **2017 - 2018**

**Please return this booklet to your counsellor for recycling.**

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# PROGRAM PLANNING

In this guide, you will find the information you need to design your high school program to meet your future career and education goals. Opportunities are abundant; follow your interests and find your future! Cedar Community Secondary offers a variety of courses that explore Humanities, Science, Math, Technology, Languages, Fine Arts, and Trades. Carefully selecting courses will prepare you for college, university, trades and work place careers.

There are many ways to build a high school program. Check out external credits, trades training opportunities, university enrichment courses, language challenge exams, work experience and apprenticeship options, distance learning opportunities.

## GRADUATION REQUIREMENTS

Requirements for graduation are specific and outlined in the chart below. Students must carefully plan their programs to ensure that graduation requirements are met and that they have selected the pre-requisite course for post-secondary Education.

## CAREER LIFE CONNECTIONS 12

Previously students in grade 12 would enroll in Graduation Transition Studies (GTS). This course has replaced GTS as a graduation requirement. Students will develop post-graduation goals and plans by exploring career and post-secondary education opportunities. Students will identify the aptitudes, attitudes and achievements necessary to reach their goals. Specific topics include career choices, education options, financial planning and health and well-being. Students will design, assemble and present a capstone project that demonstrates their learning and achievement that is a reflection of their post-graduation plan. This course will run outside of the timetable.

## Grade 10-12 Course Planner

<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>English 10</b>	<b>English 11</b>	<b>English 12</b>
<b>Socials 10</b>	<b>Socials 11</b>	Elective 12
<b>Science 10</b>	<b>Science 11</b>	Elective 12
<b>Math 10</b>	<b>Math 11</b>	Elective 12
<b>PE 10</b>	Elective 10/11	Elective 11/12
<b>Planning 10</b>	Elective 10/11	Elective 11/12
Elective 10	Elective 10/11	Elective 11/12
Elective 10	Elective 10/11	Elective 11/12

Please refer to the Grad Planner, Ministry of Education website, for more detailed information

## University and College Requirements

University admission requires English 12 plus three or four Academically Approved courses. Be sure to check out the entrance requirements for the college or university program you are interested in attending.

Common Academically Approved Courses:

Chemistry, Biology and Physics 12  
Pre-Calculus and Foundations of Math 12  
History, Geography and First Nation Studies 12  
Modern Language 12 (French, Spanish . . .)  
Other Academic Courses may include:  
Law 12 and Social Justice 12  
Calculus 12

## Ways to Earn Credits Outside of School

### External Credits

Students may earn credits towards graduation for successfully completing learning activities outside of school. External Credits approved by the Ministry are available for advanced accomplishments in Dance, Music, Athletics, Youth Development programs (Scouts, Guides, Cadets), ICBC Driver's Education, First Aid, Refereeing and many others. Students interested in exploring External Credits should consult with their counsellor for details.

### Language Challenge Exams

Students who have acquired a second language outside of school may be eligible to write a language challenge exam. The exams are offered by the Delta School District and include French, German, Japanese, Korean, Mandarin (simplified and traditional), Punjabi, and Spanish. Application to write the exams is due in the fall and the exams are held early in the new year.

### Career Explorations 12

Career Explorations 12 provides students with an opportunity to plan and prepare for their careers through relevant work experience. Career Explorations 12 combines course assignments that include work readiness assignments, work place reflections and evaluations, and a minimum of 100 hours of career-related work experience.

### Work Experience 12

The work experience program helps students prepare for the transition from secondary school to the world of work. Through work site experiences, students have the opportunity to observe and practice employability skills required in the workplace, as well as technical and applied skills relating to specific occupations or industries. In many cases, work experience consists of non-paid placements. Students begin accumulating hours of work after the registration package has been approved. If the student is employed then the employer sponsors must provide WCB coverage. Registration is ongoing and the minimum age for this course is 14 years old.

## Secondary School Apprenticeship 11 and 12

Secondary School Apprenticeship enables students to begin earning work-based training hours in an apprenticeable trade. Hours worked are registered and applied toward a student's apprenticeship, and accumulated hours allow students to complete up to four Apprenticeship courses. Additionally, apprenticeship students may be eligible for a \$1000 scholarship. This program is open to youth ages 15-19 years. Employers must provide a registered ITA employer sponsor.

# Personalizing Your Program

## Island ConnectEd

Island ConnectEd is a distributed learning school. It provides students with an opportunity to learn independently and to access courses that may not fit their timetable or that are not currently being offered at Cedar Community Secondary.

## Independent Directed Studies

Independent Directed Studies allows students to initiate their own learning under teacher supervision. The IDS program allows students to pursue learning outcomes that extend beyond those normally taught in the classroom. To participate in an IDS course, a student must have demonstrated the ability to work independently, and to have their directed studies plan approved by the principal.

## Introduction to Trades

The Introduction to Trades program is a semester long program, located at NDSS. The program allows students to complete academic classes and participate in daily hands-on learning. Students have the potential to complete 4 courses including English, Workplace Math, and two Skills and Trades Exploration courses. Trades related projects promote skills in carpentry, plumbing, electrical and basic welding. Projects are usually done on site but sometimes students will work offsite. This program is open to grades 11 and 12 (special permission may be given to grade 10's)

## Vancouver Island University Dual Credit Programs

### University Enrichment Courses

The Dual Credit Enrichment program provides access to classes at VIU for strong academic students planning to attend University. To be eligible students must attain three A's and one B in their grade 11 required courses. Information sessions for interested students are held in early February. Students can enroll in up to two courses per semester and four courses per year. The tuition is covered by the school district; students are responsible for the application fee, student fees, materials, and textbooks. Both high school credit and university credit is earned. More information is available at [ctc-careerpaths.ca](http://ctc-careerpaths.ca).

## Trades and Applied Skills Programs

These programs are offered to students with a passion for the trades or applied skills. The program provides grade 12 students with an opportunity to complete a Trades program as part of their high school program. Students earn both high school and post-secondary credits during their studies. The tuition is covered by the school district; students are responsible for the application fee, student fees, materials, and textbooks. Students are encouraged to see their counsellor for more information. The following programs are currently available:

Applied Business Technology  
Automotive Refinishing Prep Technician  
Automotive Service Technician  
Baking  
Carpentry  
Professional Cook  
Electrician  
Hairdressing  
Heavy Mechanical Trades  
Heavy Equipment Operator  
Health Care Assistant  
Horticultural Technician  
Information Technology & Applied Systems

Motorcycle Marine Technician  
RACM Refrigeration Mechanic  
Welding

## **Trades Discovery Program**

The Trades Discovery Program offered at VIU provides a hands-on experience in a variety of in-demand trade careers. Students earn credit for three grade 12 elective courses and can receive work ready certifications. The program is typically offered from February to May.

# **COURSES**

## **ENGLISH**

### **English Language Arts 10-12**

The redesigned curriculum represents an integrated and holistic approach to teaching and learning. In the English Language Arts curriculum, all six of the language arts elements (reading, listening, viewing, writing, speaking, and representing) are connected and used in each course. Each of the courses offered will be an English Language Arts class with a different emphasis. The difference between English First People (EFP) and English Language Arts (ELA) courses is the focus on Aboriginal context and content. The academic demand is equal in both ELA & EFP classes. You can find more information at the following website: <https://curriculum.gov.bc.ca/curriculum/10-12#ela>.

### **English 10 – Areas of Choice**

**New Media 10** is a program of studies designed to reflect the changing role of technology in today's society, and the increasing importance of digital media in communicating and exchanging ideas. The New Media of choice recognizes that digital literacy is an essential component of the educated citizen.

**Focused Literary Studies 10** is designed for students who are interested in the study of literature in general. In this instance, literature could consist of a variety of texts: novels, short stories, film and/or poetry. The course allows students to go more deeply into literature as they explore specific themes, periods, authors, or areas of the world through fiction and non-fiction literary works, in a variety of media.

**Creative Writing 10** is designed for students who have an interest in creative expression through language. The course provides students with in-depth opportunities to become better writers. Students will collaborate and develop their skills through the writing and design processes.

**Composition 10** is designed for students who have an interest in developing their skills in written communication in a variety of contexts. The course provides students with opportunities to think critically as they explore, extend, and refine their writing. Content may include narrative, expository, descriptive, persuasive, and/or opinion pieces. Students will work individually and collaboratively to explore and create coherent, purposeful compositions and essays.

**Spoken Language 10** provides opportunities for students individually and collaboratively to study, create, and

use language to produce original pieces in a variety of modes. The course will provide students with opportunities for performance, oral language, professional applications, and public speaking. Spoken Language 10 will appeal to students who enjoy public performance or oral storytelling, or who want to gain more experience and skill in this area.

### **English First Peoples 10 – Areas of Choice**

**EFP New Media 10** is a program of studies designed to reflect the changing role of technology in today's society, and the increasing importance of digital media in communicating and exchanging ideas. The New Media area of choice recognizes that digital literacy is an essential component of the educated citizen.

**EFP Focused Literary Studies 10** allows students to delve more deeply into literature. Students may explore selected First Peoples themes, periods, authors, or areas of the world, through literary works (fiction and non fiction) in a variety of media. Texts may include novels, short stories, plays and/or poetry.

**EFP Creative Writing 10** is designed for students who are interested in using writing for self-expression and various creative purposes. Creative Writing provides students with in-depth opportunities to become better writers through the exploration of personal and cultural identities, memories, histories, stories, and connections to place.

**EFP Composition 10** is designed for students who have an interest in developing their skills in written communication in a variety of contexts. The course provides students with opportunities to think critically as they explore, extend, and refine their writing. Content may include narrative, expository, descriptive, persuasive, and/or opinion pieces. Students will work individually and collaboratively to explore and create coherent, purposeful compositions and essays.

**EFP Spoken Language 10** provides opportunities for students to individually and collaboratively study, create, and use language to produce original pieces in a variety of modes. This area of choice will provide students with opportunities for performance, oral language, professional applications, and/or public speaking. EFP Spoken Language 10 will appeal to students who enjoy public performance or oral storytelling, or who want to gain more experience and skill in this area.

### **English 11 – Areas of Choice**

**New Media 11** is designed to reflect the changing role of technology in today's society, and the increasing importance of digital media in communicating and exchanging ideas.



Coursework is aimed at providing students with skills vital for success in an increasingly complex digital world, by affording opportunities to demonstrate understanding, and to communicate increasingly sophisticated ideas, through a wide variety of digital and print media.

**Focused Literary Studies 11** allows students to delve more deeply into literature. Students may explore specific themes, periods, authors, or areas of the world through literary works (fiction and non-fiction) in a variety of media, which may include novels, short stories, film and /or poetry. Giving students the choice of a range of literary topics allows them to follow their passion.

**Creative Writing 11** is designed for students who are interested in using writing for self-expression and other various creative purposes. The course provides students with in-depth opportunities to become better writers. Students will collaborate and develop their skills through writing and design processes. Creative Writing 11 is grounded in the exploration and application of writing processes, inviting students to express themselves creatively as they experiment with, reflect on, extend, and refine their writing.

**Composition 11** is designed for students who have an interest in refining their skills in written communication in a variety of contexts, as they continue to explore, extend, and improve their writing. The course provides opportunities for students, individually and collaboratively to study, create, and write original, authentic pieces for diverse purposes and in diverse forms. Students will work individually and collaboratively to explore and create compositions and essays.

**Spoken Language 11** provides opportunities for students to study, create, and use language to produce original pieces in a variety of modes. The course will provide students with opportunities for performance, oral language, professional applications, and/or public speaking. Spoken Language 11 will appeal to students who enjoy public performance, oral storytelling, and/or who want to gain more experience and skill in this area.

**English 11 Foundations** will focus on New Media and Focused Literary Studies to understand ways we communicate today, and would be assessed using the same criteria as the other English 11 courses. Students who struggle with basic skills would have the opportunity to encounter reading-level appropriate literature and focus on basic language skills. This course will work towards preparing them for Foundations English 12 and beyond.

## English First Peoples 11 – Areas of Choice

**EFP New Media 11** is designed to reflect the changing role of technology in today's society and the increasing importance of digital media in communicating and exchanging

ideas. Coursework is aimed at providing students with a set of skills vital for success in an increasingly complex digital world by affording numerous opportunities to demonstrate understanding and communicate increasingly sophisticated ideas, through a wide variety of digital and print media.

**EFP Literary Studies 11** allows students to delve more deeply into literature. Students may explore selected First Peoples themes, periods, authors, or areas of the world through literary works (fiction and non-fiction) in a variety of media, which may include novels, short stories, film and /or poetry. EFP Focused Literary Studies enables students to expand their development as educated Canadian and global citizens, as well as broaden their understanding of themselves and the world.

**EFP Creative Writing 11** is designed for students who are interested in using writing for self-expression and various creative purposes. The course provides students with in-depth opportunities to become better writers. Students will collaborate and develop their skills through writing and design processes. EFP Creative Writing 11 is grounded in the exploration and application of writing processes, inviting students to express themselves creatively as they experiment with, reflect on, extend, and refine their writing.

**EFP Composition 11** is designed for students who have an interest in refining their skills in written communication, in a variety of contexts. This area of choice provides students with opportunities to think critically as they continue to explore, extend, and improve their writing. The course provides opportunities for students, individually and collaboratively, to study, create, and write original, authentic pieces for diverse purposes and in diverse forms. Students will work individually and collaboratively to explore and create powerful, purposeful compositions and essays.

**EFP Spoken Language 11** provides opportunities for students to individually and collaboratively study, create, and use language to produce original pieces in a variety of modes. The course will provide students with opportunities for performance, oral language, professional applications, and/or public speaking. EFP Spoken Language 11 will appeal to students who enjoy public performance or oral storytelling and/or who want to gain more experience and skill in this area.

**All students take an English Language Arts Grade 12 course (English 12, English 12 Foundations or EFP 12) in grade 11 or grade 12.**

## English 12 – Areas of Choice

The **English 12** curriculum is designed to empower students by providing them with strong communication skills, an understanding and appreciation of language and literature, and the capacity to engage fully as literate and responsible citizens in a digital age. Students are guided in learning to think critically, creatively, and reflectively; to construct a sense of

personal and cultural identity; and to be respectful of a range of perspectives and worldviews.

**The English 12 Foundations** would be assessed using the same criteria as English 12, but students who struggle with basic skills would have the opportunity to encounter reading-level appropriate literature and focus on basic language skills.

The **EFP 12** curriculum uses First Nations content and context to empower students by providing them with strong communication skills, an understanding and appreciation of language and literature, and the capacity to engage fully as literate and responsible citizens in a digital age. Students are guided in learning to think critically, creatively, and reflectively; to construct a sense of personal and cultural identity; and to be respectful of a range of perspectives and worldviews.

## SOCIAL STUDIES

### Social Studies

The main purpose of the Social Studies curriculum is to develop graduates who have the knowledge, skills, and competencies to be active, informed citizens.

Social Studies offers students the opportunities to build understandings and knowledge on topics found in the disciplines of history, geography, political science, and economics, with contributions from other disciplines such as sociology, psychology, and anthropology. The new curriculum places greater emphasis on developing disciplinary thinking skills through six major thinking concepts: significance, evidence, continuity and change, cause and consequence, perspective, and ethical judgment.

Today's easy access to information of uncertain quality and accuracy makes it more important than ever to teach students the skills needed to gather, assess, analyze, and synthesize information and ideas from multiple sources. Once students have gathered and analyzed information, they will use it to solve problems, make decisions, and communicate their ideas effectively.

### SOCIAL STUDIES 10

The Grade 10 Social Studies curriculum maintains the same structure and format as the K–9 curriculum. The Grade 10 Social Studies curriculum finishes the historical sequence started in the new Grade 7 curriculum and finishes in the present day, with issues in modern Canadian and world history, geography, civics, and economics. It prepares students to be active, thoughtful citizens as well as having them consider issues they may want to pursue in Grade 11 and 12 Socials Studies courses. Following Social Studies 10, all students are required to take a minimum of one Social Studies course at the grade 11 or 12 level.

## 20<sup>th</sup> CENTURY WORLD HISTORY 11

This course examines the major events of the 20th Century from 1919 to 1991. Using the themes of geopolitics, economics, ideology, social change, and the role of the individual, the course focuses on the major events of the century including the aftermath of Versailles, the Great Depression, rise of dictators, World War II, the Cold War, end of European empires, and civil rights in the United States and South Africa. Open to both grade 11 and 12 students.

### BC FIRST PEOPLES 11

BC First Peoples 11 focuses on the diversity, depth and integrity of the cultures of BC's First Peoples. This course will promote understanding of the historical foundations of contemporary issues like the continued impact of colonialism and the move toward reconciliation. Students will develop a new understanding or enhance their current knowledge of the tradition, history, and present realities of BC's First Peoples. This is an important course for both Aboriginal and non-Aboriginal students as a range of perspectives will create an enlightened discussion of current and historical Aboriginal issues. Open to both grade 11 and 12 students.

### HUMAN GEOGRAPHY 11

This course examines the influence people have had on our physical environment as well as its influence on us. Students will analyze data from a variety of sources to better understand our globally connected world. Along the way, you will learn how to interpret how demographic patterns and population distribution are influenced by physical features and natural resources. At the same time as physical features affect our choices as a species, human activities alter landscapes in a variety of ways. Students will examine the implications of our changes to the natural landscape environmentally as well as other geographic factors. You will consider reasoned judgements about controversial choices humans have made, past and present, and determine what responsibility we might have to respond. This course is open to Grade 11 and 12 students.

### GENOCIDE STUDIES 12

This course will focus on the use of the term "genocide" and how it has been used to describe atrocities that have resulted in political, legal, social, and cultural ramifications. Despite international commitments to prohibit genocide, violence targeted against groups of people or minorities has continued to challenge global peace and prosperity. Through Project Based Inquiry and other strategies students will learn that while genocides are caused by and carried out for different reasons, all genocides share similarities in progression and scope. Open to both grade 11 and 12 students.

### CONTEMPORARY INDIGENOUS STUDIES 12

This course will look at the various experiences of indigenous people in Canada and around the world. It will focus on the impact of colonialism on Indigenous societies. The course

content will include the principle that identities, worldviews, and language of indigenous peoples are renewed, sustained, and transformed through the connection to the land. In addition, students will study the ways that Indigenous peoples are reclaiming mental, emotional, physical, and spiritual well-being despite the continuing effects of colonialism. The course will look at the ways that Indigenous peoples continue to advocate and assert rights to self-determination. The course will centre around the communal responsibility that reconciliation requires all colonial societies to work together to foster healing and address injustices of the past. Open to both grade 11 and 12 students.

## **PHYSICAL GEOGRAPHY 11**

This course examines the inter-relationship between people and their environment. Physical Geography includes such things as volcanoes, earthquakes, tsunamis, water, wind and ice. Time will be spent looking at the environmental impacts human activities have on the planet. This course may meet science prerequisites for some universities. Open to both grade 11 and 12 students.

## **ECONOMICS 12**

An introduction to the essentials of economics including understandings about the role of market forces, supply and demand, scarcity and how monetary systems function in the global economy. Students will explore the nature of goods and services and how banking institutions function in the economy. There will be some discussion about the differences between command and centralized economies such as in communist nations, as compared to free enterprise capitalist economies. Finally, the role and functioning of stock markets and their role in the economy shall be studied and explored. Open to both grade 11 and 12 students.

## **PSYCHOLOGY 12**

This introductory overview of psychology covers topics such as contemporary approaches to psychology, the nature-nurture debate, human development, theories of personality, learning and thought processes, memory storage and retrieval, emotions, motivation, conflict, adjustment mechanisms, and psychological disorders. Students will conduct a social experiment of choice. Open to both grade 11 and 12 students.

## **GEOGRAPHY 12**

This elective course is concerned with the inter-relationships between man and his environment. Specific problems will be examined from a geographical perspective. The first part of the course deals with the physical environment - the land, the atmosphere and the oceans. The second part considers man at different levels of scientific and technological knowledge, using the environment to satisfy human need. This course may meet the entrance requirements as a prerequisite for some university programs.

## **LAW STUDIES 12**

This course presents an overview of the Canadian legal system. Emphasis is on legal rights and responsibilities that allow citizens to reflect critically on their role in society. Topics include the history of law, Canadian Charter of Rights and Freedoms, Criminal law, correctional systems and Youth Criminal Justice. Students will examine current events going on in Canada and the world. Some projects include the wrongfully accused, famous trials, prison systems, not criminally responsible defence, environmental law and a mock trial. Meets academic requirements for some university programs. Open to both grade 11 and 12 students.

## **SOCIAL JUSTICE 12**

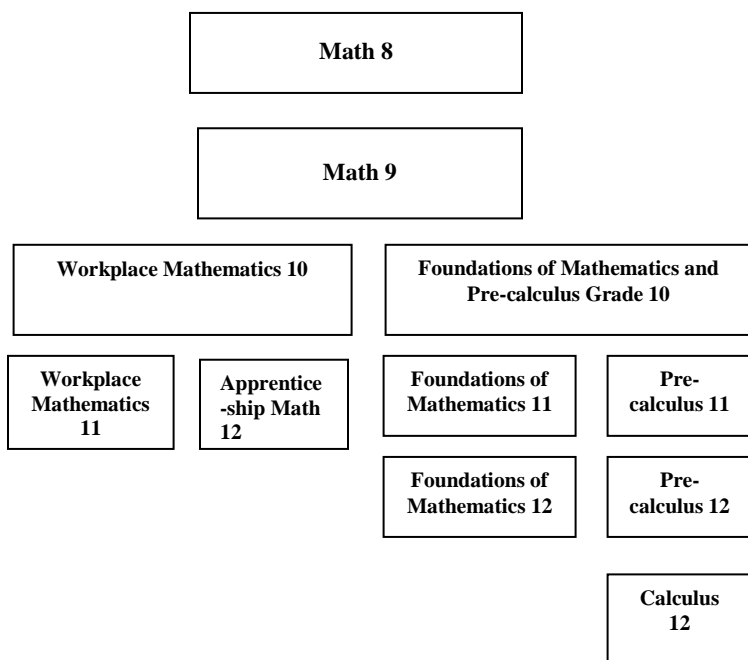
The aim of Social Justice 12 is to raise students' awareness of social injustice, to enable them to analyze situations from a social justice perspective, and to provide them with knowledge, skills, and an ethical framework to advocate for a socially just world. The course includes an emphasis on action, providing opportunities for students to examine models of social change and implement strategies to address social injustice. Social Justice 12 will provide opportunities for students to examine their own beliefs and values, as well as the origins of those beliefs. In addition, it will allow them to support or challenge their beliefs and values through reflection, discussion, and critical analysis. This course builds on students' innate sense of justice, motivating them to think and act ethically, and empowering them to realize their capacity to effect positive change in the world.

The goals of Social Justice 12 are to enable students to acquire knowledge that allows them to recognize and understand the causes to injustice, apply critical thinking and ethical reasoning skills to a variety of social justice issues, develop an understanding of what it means to act in a socially just manner, become responsible agents of change, and make positive contributions toward a socially just world. This course meets the academic entrance requirements for some university programs. Open to both grade 11 and 12 students.

# MATHEMATICS

*Note:* Students should research or contact the post-secondary institutions that they are planning on applying to for their specific math entrance requirements.

*Note:* Students are expected to have a scientific calculator to assist them with their calculations. Most courses involving geometry require a ruler, compass and a protractor. Math teachers at Cedar Community Secondary will be using Texas Instruments model TI83 or TI84 plus graphing calculators.



## DESIGN OF PATHWAYS

Each pathway is designed to provide students with the mathematical understandings, rigor and critical-thinking skills that have been identified for specific post-secondary programs of study and for direct entry into the work force.

### Workplace and Apprenticeship Mathematics

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force. Topics include algebra, geometry, measurement, number, financial mathematics, statistics and probability.

## Foundations of Math

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Topics include financial mathematics, geometry, measurement, number, logical reasoning, relations and functions, statistics and probability.

## Pre Calculus

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus. Topics include algebra and numbers, measurement, relations and functions, trigonometry, and permutations, combinations and binomial theorem.

## WORKPLACE MATHEMATICS 10

This course is designed for students wishing to pursue a trade or go directly into the workforce. Topics covered include: working with metric and imperial units and converting one to the other, applied measurement (i.e. volume and surface area), trigonometry, geometry, graphing, measures of central tendency, probability, game theory and financial literacy.

## FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 10

This course is designed for students wishing to pursue either the Foundations or Pre-calculus streams. Topics covered include: trigonometry, algebra, the real number system, exponential laws, polynomials, factoring, relations and functions, equations of lines and their characteristics, parallel and perpendicular lines, systems of linear equations and finance.

## WORKPLACE MATHEMATICS 11

This course is designed for students who plan to enter the workforce. Either this course or Apprenticeship Math 12 can be taken to meet the math graduation requirement. Topics covered include statistics, scale diagrams, 3 dimensional views and scale diagrams, linear relationships and slope, analyzing puzzles and games, financial literacy and budgeting.

## FOUNDATIONS OF MATH 11

This course is designed for students who plan on entering the social sciences in post-secondary school. Topics covered include application of rates, scale diagrams and scale factors, geometry, trigonometry, logic and problem solving strategies, statistics, relations and linear and quadratic functions.

## PRE-CALCULUS MATHEMATICS 11

This course is designed for students planning on pursuing a post-secondary program in sciences, math or engineering. Topics covered include: powers and radicals, rational expressions and equations, coordinate trigonometry (and sine and cosine laws), relations and functions (linear, quadratic and polynomial and exponential) and financial literacy.

Equipment: A graphing calculator is required for this course. Math teachers at Cedar Community Secondary will be using Texas Instruments model TI 83 or TI 84 graphing calculators.

## APPRENTICESHIP MATHEMATICS 12

Students can choose to take Apprenticeship Math 12 or Workplace Math 11 after taking Workplace Math 10. In this course students will learn to do precise measuring in metric and imperial units, solving triangles using various methods including trigonometry, draw and calculate various 3D objects, work with different formulae and circle geometry. At the end of the course, students will do a research project linking math to a trade of their choice.

## FOUNDATIONS OF MATHEMATICS 12

This course is designed for students who plan on entering the social sciences in post-secondary school. Topics covered include financial mathematics (simple and compound interest, leasing vs. buying and investments), logical reasoning, probability, functions and relations and a mathematics research project.

Equipment: A graphing calculator is required for this course. Math teachers at Cedar Community Secondary will be using Texas Instruments model TI 83 or TI 84 graphing calculators.

## PRE-CALCULUS 12

This course is designed for students planning to pursue a post-secondary program in the sciences, math or engineering. Topics covered include: coordinate trigonometry, graphing and solving problems involving trig functions, trig identities, combinations and permutations, transformations, logarithms, polynomial, radical and rational functions.

Equipment: A graphing calculator is required for this course. Math teachers at Cedar Community Secondary will be using Texas Instruments model TI 83 or TI 84 graphing calculators.

## CALCULUS 12

Topics covered include problem solving, overview and history of Calculus, functions, graphs and limits, derivatives, antiderivatives and applications of derivatives and antiderivatives. Students who plan on taking Calculus 12 (which is only offered 2nd semester) must have previously completed Pre-Calculus 12

## SCIENCE 10

This course continues to introduce and use the methods and applications of science. Science 10 is designed to provide opportunities for students to develop scientific knowledge, skills, and attitudes that will be relevant in their everyday lives and their future careers. Areas of study include; Sustainability of Ecosystems, Chemical Reactions and Radioactivity, Motion, Energy Transfer in Natural Systems and Plate Tectonics.

## CHEMISTRY 11

This is an introductory course for students with a general interest in Chemistry as well as for those who require Chemistry for more advanced study in the Sciences and is recommended for Biology 12. Topics include the study of atoms and molecules, as well as how they are bonded and how bonding can affect their structure and properties. The study of the mole and how it is used in quantitative measurements in chemistry involving solids, liquids and gases. The study of organic chemistry, the wide variety of organic compounds and how they react. This course involves the development of skills in experimentation, including observation, analysis and recording of results in lab reports. Ability in mathematics is essential.

## CHEMISTRY 12

Chemistry 12 is a course which provides an in-depth study of reaction rates, equilibrium, solubility, acids and bases, and oxidation-reduction. Success in the course requires ability in problem solving and the handling of numerical calculations, as well as a demonstrated ability to perform, analyze and report on experiments in the various topics. Good math skills are essential.

## PHYSICS 11

Physics 11 is an introductory course which covers the Topics of kinematics, free fall with gravity, dynamics, work, energy, momentum, power, circuitry, and relativity.

It is strongly recommended that Pre-Calculus Math 11 be taken prior to or concurrently. Students who have weak Algebra skills may wish to take Physics 11 in their Grade 12 year.

## PHYSICS 12

This course is a survey of physics for those students requiring physics for post-secondary studies. The following topics are studied: Vectors, 2D kinematics, dynamics, energy and momentum, static equilibrium, circular motion, electrostatics, and electromagnetism. The course will be easier for those students with a good mathematical sense and a solid foundation in algebra and trigonometry. Students are expected to develop skills in problem solving and in collection, analysis and reporting of experimental results. It is strongly recommended that Pre-Calculus Math 12 be taken concurrently.

## SCIENCE

## Life Sciences 11

This course presents a representative sample of organisms and introduces students to a variety of laboratory skills and scientific processes. The three main themes in Life Sciences 11 are characteristics of living things, processes of evolution, and taxonomy. Under these themes, the Life Sciences 11 curriculum will specifically cover ideas around evolution, viruses, taxonomy, microbiology (bacteria and protists), mycology, botany, zoology, and ecology. Life Sciences 11 demands that students be prepared to develop a strong understanding of biological terminology as the course progresses. These skills are also extended into Anatomy and Physiology 12, and will prove helpful for first year biology courses in BC post-secondary institutions.

## Anatomy and Physiology 12

Anatomy and Physiology 12 focuses on human biology using the three main themes of homeostasis, DNA and Cells, and Organization. Under these themes, the Anatomy and Physiology 12 curriculum is organized into the main sections of: cell compounds and biological molecules, cell structure and membranes, DNA and its role in protein synthesis as well as disorders like cancer, enzymes, digestion, circulation, respiration, the nervous system, the urinary system, and the reproductive system. An ability to work with and understand biological terminology is essential for students to be successful.

**Anatomy and Physiology 12 may include “blood labs.” These labs will only occur with written permission from a parent or guardian and full compliance with School District 68 protocols.**

## EARTH SCIENCE 11

Earth Science 11 is a survey course designed to introduce students to the diverse aspects of Earth and Space Science. Students entering this course should have a good knowledge of Science skills and course content from their junior grades.

The course itself is based on five (5) key subject areas: Earth Materials (Rocks and Minerals), Plate Tectonics (Earthquakes and Volcanoes), Astronomy, Atmosphere and Climate, and Oceanography and the Hydrosphere.

Activities encourage critical thinking in environmental issues, as well as interpreting the impact of human activities on the planet.

## ENVIRONMENTAL SCIENCE 11

Environmental Science 11 is a newly created science 11 credited course. The course will have students explore topics within the big ideas of diversity in local ecosystems, processes and changes within local ecosystems, sustainability within local ecosystems, and the conservation and restoration of ecosystems. Students will be participate in several projects dealing with these big ideas that specifically involve the skills of questioning and predicting, evaluating, applying and innovating, and communicating.

## PHYSICAL EDUCATION

### GENERAL OBJECTIVES AND PURPOSE

The Cedar Community Secondary Physical Education Program's goal is to promote the student acquisition of knowledge, skills and attitudes necessary for the development of a positive attitude toward health. Students will gain an understanding of the importance and benefits of a healthy lifestyle. Through participation in a variety of performance-oriented activities (i.e. individual, dual and team games and fitness activities), the student's self-concept and interpersonal skills will be enhanced. The program consists of approximately nine units. Starting in Grade 9, students may be given an opportunity to make some selection of the activities in which they wish to participate. Senior PE courses place an emphasis on leisure-oriented activities, leadership development, and personal fitness evaluation. The development of personal fitness potential is an ongoing component of all levels of Physical Education at Cedar Community Secondary. Students are required to have the basic PE strip consisting of running shoes, gym socks, shorts or sweat pants and a T-shirt. It is highly recommended that suitable clothing is available for foul weather and hot days (including water and sunscreen) at all times.

### PHYSICAL EDUCATION: Outdoor Education Grades 9, 10, 11 and 12

Outdoor Education is a 4 credit course designed to enable students to develop an understanding and appreciation of the different types of outdoor physical activities. Students will explore how participation in various types of outdoor activities can influence the health and well-being of individuals and the environment. Examples activities could be: local seashore hikes, Lantzville and Lynn Valley hikes, canoeing on Brannen Lake, rock climbing Romper Room, orienteering, and geocaching. Outdoor sports activities could be: Tennis, Ultimate Frisbee, Disk Golf and Flag Football. The course will combine outside time with classroom instruction. There will be instruction in First Aid (certification), Water Safety, and Hiking Preparation. Students considering a Career and/or educational path related to recreation, environmental conservation or other related area would benefit from this curriculum ( Game Warden, Recreation Programmer, Field Biologist) Also, students just wanting to learn more about participating in outdoor activities will find this course enjoyable.

## PHYSICAL EDUCATION 10

PE 10 reinforces skills, principles and rules acquired in previous years, with an emphasis on team play and game strategies. Particular concentration is on achievement of superior fitness levels and student participation in areas of interest.

Students taking this course may be given an opportunity to choose some of the units in which they wish to participate.

There is a stronger emphasis on lifetime and leisure-oriented sport activities. Activities may include: Tennis, Golf, Orienteering, Aerobics, and Weight Training, in addition to the regular performance-oriented activities offered in previous grades.

**Materials:** *PE Strip*

## PHYSICAL EDUCATION 11

In the Coed PE 11 course, there is a greater focus on leisure-oriented activities that may take students off-campus. The course consists of performance-oriented activities (volleyball, basketball and soccer) and leisure oriented activities which include bowling, tennis, skating, swimming, disk golf and various community runs. Personal development activities may include SOFA – First Aid Course, Active Health and Fitness and school based activities (e.g. officiating and score-keeping). Students may have the opportunity to volunteer their services to the school and community during non-class hours. Evaluation will measure participation and attitude, knowledge and leadership.

**Materials:** *PE Strip*

## PHYSICAL EDUCATION 12

The Coed PE 12 course will provide enjoyable experiences and skill development in fitness, sport and outdoor recreation. More emphasis than in previous grades will be placed on recreational activities, and the development of leadership skills. Some of the activities will take the student off campus. There is an expectation that students will contribute their services during non-class hours to the school and community. Core units include performance-oriented activities (volleyball, basketball, badminton, tennis, and dance). The personal development activities component may include a “self-fitness evaluation” and school based activities (e.g. coaching, officiating, running tournaments). Evaluation will measure participation and attitude, knowledge and leadership.

**Materials:** *PE Strip*

## PHYSICAL EDUCATION 11: HEALTH AND WELLNESS

This course is designed to give students the opportunity to learn moderate intensity level fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardio respiratory endurance activities. Students will learn the basic fundamentals of strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviours in

fitness, wellness, and movement activity for a lifetime.

## PHYSICAL EDUCATION 12: HEALTH AND WELLNESS

This course is designed to give students the opportunity to further their understanding of fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students may plan, develop and benefit from comprehensive weight training and cardio respiratory endurance activities. Students will learn the more advanced techniques of strength training aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviours in fitness, wellness, and movement activity for a lifetime.

## LANGUAGES

### Courses Offered

French 8	French 11*
French 9	French 12**
French 10	
Beginners' Spanish 11	
Spanish 11*	

*\*Please note that completion of a language at the Grade 11 level is an entrance requirement for some post-secondary institutions. All language courses focus on the four areas of language acquisition: reading, speaking, listening and writing. Language courses also strive to foster cultural awareness and appreciation.*

## FRENCH

### FRENCH 10

This course expands on and further develops the basic listening, speaking, reading and writing skills learned in French 9. Learn more about the culture and increase your communication skills through real-life themes, cultural activities and projects.

### FRENCH 11

This course further develops communication skills in the areas of listening, speaking, reading and writing. Develop a deeper awareness of the culture and diversity of French speaking countries and regions. Expand your ability to communicate in French through real-life themes, cultural activities and projects.

### FRENCH 12

This course further develops communication skills in the areas of listening, speaking, reading and writing. Develop a deeper awareness of the culture and diversity of French speaking countries and regions. Expand your ability to communicate in

French through real-life themes, cultural activities and projects.  
\*\*Completion of this course gives a student entering a General Arts Program a language credit at some universities. The student may, therefore, not be required to take a first year university language course to satisfy their university graduation requirements.

## SPANISH

### BEGINNERS' SPANISH 11

This course combines Spanish 9 & 10 to provide an introduction to Spanish language and culture. It is designed for students who begin their Spanish studies after Grade 9. Students who successfully complete Beginners' Spanish 11 qualify for Spanish 11.

### SPANISH 11

This course further develops communication skills in the areas of listening, speaking, reading and writing. Develop a deeper awareness of the culture and diversity of Spanish speaking countries. Expand your ability to communicate in Spanish through real-life themes, cultural activities and projects.

*Recommendation for Spanish 11 is Beginners' Spanish 11*

## BUSINESS EDUCATION

### BUSINESS EDUCATION 10: Entrepreneurship

Have you seen "The Apprentice" on T.V.? Do you think you know how to sell? Or do you think you might want to own your own business some day? This course will help you decide if you have the right stuff! There will be many opportunities to assess your own entrepreneurial potential. There will also be opportunities to test your business ideas out through a variety of business projects.

### BUSINESS EDUCATION 10: Marketing

How do you motivate someone to buy your product? What is good customer service? What is a target market for a business? Where and when should you advertise? All of these concepts involve marketing. This course shows you how retailers study consumer behavior to target a specific group and convince them to buy your products or services. Marketing will enable you to develop and use your creative side (or find it) through projects that emphasize product innovation, advertising, store layout and design, etc.

### COMPUTER KEYBOARD ESSENTIALS 11

If you missed taking Keyboarding 9, this is a second chance. The ability to type at a reasonable pace, without making mistakes, is a skill that is essential today, in every career. This course will prepare you to keep up with the demand required by most colleges and universities for typed assignments. Typically, students will double or triple their typing speed in this course. Keyboarding lessons are individualized to meet the specific needs of each learner. The other major part of this course involves learning how to design and create documents for personal and business use. Desktop publishing skills will be included and will involve becoming familiar with a number of different software programs. Students will use this course for the rest of their lives, it is very practical.

### BUSINESS COMPUTER APPLICATIONS 11

If you see yourself using a computer to produce business documents in your career, you will love this course! You will learn the ins and outs of all the programs in MS Office (Word, Power Point, Access, & Excel). Other programs will also be explored, for example Adobe Photoshop and/or Dreamweaver. Students will gain an understanding of how to use the computer as a problem-solving tool in real life situations. Students will also use computer programs that are designed to develop an individualized typing program for each student. The goal is to improve your speed and accuracy while developing touch typing technique. Post-secondary institutions expect that students have a number of the skills learned in this course, therefore, this course is highly recommended for students who will continue their education beyond high school.

### MARKETING 11

How do you motivate someone to buy your product? What is good customer service? How do you increase sales? Why do businesses select target markets? Where and when should you advertise? All of these concepts involve marketing. Marketing skills have applications in all career areas: learn how to sell products, services and/or ideas. Practice working as a member of a team that produces results, and on time. This course emphasizes retail marketing. It will enable you to develop and use your creative side (or find it) through projects that emphasize product innovation, brand awareness, advertising, store layout and design, etc.

### MARKETING 12

The focus of this course is manufacturing and international business, as opposed to the retail focus in Marketing 11. There is big money to be made in the global economy and this course will show you how it is done. Topics include: 1) understanding different cultures/values to assist with international trade; 2) determining the products, price, place and promotional steps for business opportunities; 3) understanding market research in product development; 4) how does brand awareness influence



sales; and more. There will be many opportunities to test your business ideas out through marketing projects and real business situations.

## YEARBOOK PUBLISHING 11

### *(Desktop Publishing 11)*

Have you ever wondered what it would be like to see your work published? Would you like to learn about leading industry software packages such as Adobe In-design and Photoshop? The yearbook course is for you. Students will photograph, design, interview, and create great pages that go into the yearbook, for all to see. We use Digital SLR cameras that encourage students to take professional quality pictures. Then, they can manipulate them with our classroom software. The course satisfies both the Applied Skills and Fine Arts requirements for graduation.

## DIGITAL PHOTOGRAPHY 10

Are you interested in graphic design, photography, photo journalism or publishing? This is the course for you. Get practical experience and build your portfolio by learning a variety of different photography skills. This course is to introduce students to the power of a digital camera, get experience with a DSLR camera and to develop skills with Adobe Photoshop and Adobe IN-Design. Students may also do a unit on black and white film photography

## PHOTOGRAPHY 11

This course is a continuation of Digital Photography 10. Students will continue to develop their skills with digital cameras and continue to enhance their photo journalism skills. We will also continue to dive further into Adobe Photoshop and Adobe In-Design. Students will be expected to take photographs for the development of our yearbook and possibly use their skills to design yearbook pages. Students may also do a unit on black and white film photography. Didn't take Digital Photography 10? That is fine, Digital Photography 10 is **not** a prerequisite.

## PHOTOGRAPHY 12

In this course, students will be taking on a leadership role within the school. They will be responsible for taking photos for the yearbook (during school time **and** after school hours) and work closely with the yearbook class. They will also be taking photographs for our school newspaper, our TV monitor system and our school website. Students will also dive further into the potential of a DSLR camera, while continuing to develop their Adobe Photoshop and Adobe In-design skills. This course is a must for any student wishing to pursue a career in graphic design, photography or journalism as careers in photography are discussed along with learning about different photographers from around the world. Digital Photography 11 **is** a prerequisite.

## YEARBOOK 12

### *(Photography 12)*

*Students enrolled in Yearbook 12 will build upon their knowledge learned in Yearbook 11.*

These students will take on a leadership role and editorial responsibilities in the production of the school yearbook.

**NOTE:** Students cannot receive credit for both Yearbook and Photography 12.

## INFORMATION & COMMUNICATIONS TECHNOLOGIES (ICT)

### INTRODUCTION TO COMPUTER ANIMATION 10

This exciting course introduces the students to the different aspects of computer animation. Computer animation offers a unique opportunity for students to utilize their graphic, written and technology skills – all requirements for the future workforce. The course will be divided into several sections including 2D FLASH Animation (hugely fun and entertaining), 3D Animation (addicting and creative), and Video Editing (Adding sounds and Post Production to DVD and Video). Students will synthesize information from a variety of electronic sources for their presentations. We will also investigate the Billion Dollar Industry of Computer Animation by exploring and watching current 3D animation movies.

**NOTE:** This course can be taken in Grade 9 or 10

### INFORMATION TECHNOLOGY 10

This course is a preparatory course in Information and Communication Technology. The course will cover Basic Computer programming, Digital Imagery and Media Development, Applied Digital Communications, Web Page Publishing, and Multimedia Presentations beyond PowerPoint. While most students can do Facebook and get cheat codes, this course will empower students to outperform their peers in digital presentations and communication. In IT 10, students will also learn the hardware of computers, digital imagery techniques to craft unique graphics. A final project will be developed using multimedia software that will combine text, graphics, and sound in an easy to use mouse-driven format.

### WEB DEVELOPMENT 11 (Level 1)

#### *(Applied Digital Communications 11)*

The internet is changing the way we work in society. Being able to effectively use different computer programs will make students more valuable to potential employers. Web Development 11 is a great course that permits the arts and academics to combine with ease. This course is designed to introduce students to areas of central importance to modern

computing. These areas are: HTML, CSS, Dreamweaver, Flash and Content Management Systems such as Word Press. Students who intend to specialize in math, science, computer science or engineering at a post-secondary institution should include this course in their program.

**NOTE:** This course can be taken in Grades 10, 11 or 12.

## **PROGRAMMING 11 (Level 1)**

*(Computer Programming 11)*

In this captivating gaming course students will learn the fundamental concepts and terminology of software application development and develop skills in designing and writing simple computer programs. The course assumes no programming background and provides an overview of the software development process in addition to introducing important programming constructs and methodologies. Throughout this course students will write a variety of simple programs and games.

This course is intended for students who wish to learn what software development is and what software developers do and wish to evaluate their personal aptitude for a career as a programmer or software developer. Often students who take this course obtain a whole new appreciation for computer programs.

This course is appropriate for individuals who are contemplating a career in software development, computer studies, and COMPUTER GAME PROGRAMMING. It is recommended that students who choose this course have a GOOD skill level in mathematics. Try out a sample of the games at

[http://itismath.com/?page\\_id=22](http://itismath.com/?page_id=22)

## **ANIMATION 11 (Level 1)**

*(Digital Media Development 11)*

Animation 11 will provide students with basic skills required to Model and Animate in 3 dimensions with a high-end computer animation program as demonstrated in current advertising, multimedia and film production. The course could be a “quick start” into a career or post-secondary course associated with the new and expanding fields in film, television, publishing, multimedia and other career paths.

**Topics covered:** Techniques such as composition, elements of design, focal point, use of space, 3D drawing and character animation will be introduced. The course also investigates the creation of the Toy Story movie to understand the process of animation production. We will also investigate the Billion Dollar Industry of Computer Animation by exploring and watching current 3D animation movies.

successful in the emerging field of mobile application, design and development. Students will gain a strong knowledge of multiplatform mobile technologies such as android and apple devices and learn the important design aspects and basic programming skills for their games. This course is a great introduction into Computer Programming 11 and Animation 11.

## **WEB DEVELOPMENT 12 (Level 2)**

*(Applied Digital Communications 12)*

This course is a continuation of the WEB DEVELOPMENT 11 (Level 1) course. Students will continue to develop an expertise in Web Page Design such as: Dreamweaver, Fireworks, Flash, CSS, CSS3, javascript and PHP. Furthermore, we will enhance our program with multimedia development and networks communications. This course is designed for students who are planning to enroll in a post-secondary computer course, or who would benefit in understanding sophisticated information technology tools to increase and refine their skills and abilities.

**Recommended:** C+ or higher in Web Development 11 (Level 1)

## **PROGRAMMING 12 (Level 2)**

*(Computer Programming 12)*

In the Programming 12 course students will use several different programming languages to develop programming skills. Using the Internet and other informational sources students will gain an expansive understanding of the software development industry. Students will continue to learn logics and graphic programming.

This course is appropriate for individuals who are contemplating a career in software development, computer studies, and COMPUTER GAME PROGRAMMING. It is recommended that students who choose this course have a good skill level in mathematics.

## **ANIMATION 12 (Level 2)**

*(Digital Media Development 12)*

Using the 3D Studio Max software, an industry standard program, students will advance their skills in modeling & animation and explore Character Animation. Students will work on projects demonstrating problem solving abilities, tutorial comprehension, and tutorial creation aptitude. Students will model and animate characters in a 3D environment possibly working in groups to complete projects. Topics of field of view, advanced lighting, and post rendering compilation will also be incorporated. Is Electronic Arts or Pixar looking for you?

Students who finish Animation 12 in their Grade 11 year are encouraged to take a directed studies course in animation to hone their skills at animating by creating a Demo reel of their work.

# **INDUSTRIAL EDUCATION - WOOD**

## **WOODWORK 10**

Intended for students who do not wish to wait until Carpentry and Joinery 11 to continue with their exploration in wood-working. This course is a continuation of the Grade 9 woodworking course. Students are presented with a much greater variety of project choices, all of which will require the

mastery of more advanced woodworking skills.

## WOODWORK 11

This course is suited to serious woodworkers, ones that might be interested in a career in the wood industry. Proper machine use and tool procedures will be taught so students can conduct themselves in a safe manner at school or on the jobsite. Joinery, fasteners, adhesives, plan reading and all machine operations appropriate for the required projects is also taught to ensure solid furniture or cabinet production. Finishes appropriate to the project will be chosen and applied so the object will last. Projects may include tables, dressers, chairs, jewelry boxes or chests, lathe turnings, clocks or medicine chests for example. Many students will build projects that are destined to become quality antiques!

*Recommendation: Woodwork 9 or 10*

## DRAFTING AND DESIGN 10

Designed as a continuation of Drafting 9, this course will improve your skill level in areas of Landscape, Interior Design and Engineering, as well as residential and commercial architecture. Using the latest AutoCad and Envisioneer products, you need only your creative talents. For students new to Drafting, projects and learning will be adapted to meet your needs and interests.

## DRAFTING & DESIGN 11

Continuing from Grade 10, student projects will reflect a professional standard and focus on detail in their designs and creativity. Using AutoCad and Envisioneer products, the Residential, Commercial and engineering designs will be more sophisticated. New students are welcome, and projects will be adapted to fit interests and expectations.

## DRAFTING AND DESIGN 12

Designed as a continuation of Drafting & Design 11. Students will continue to grow and develop skills in a personally designed project-based environment. You will improve your skills and develop a strong portfolio of projects and achievements. Those new to drafting are welcome, and the course may be adapted to meet your interests.

## RESIDENTIAL CONSTRUCTION 12

For the majority of this course, the focus is on becoming familiar with the processes of residential construction, including the fundamentals of framing, roofing, closing-in, stair construction, etc. The first project is the construction of a sawhorse which can be put to use in the shop or at home. Students will then collaborate to build a client specific garden shed or some such structure.

The course will be particularly useful to any student who:

- may be considering a career in the residential construction industry or related industries (such as

architecture, cabinetmaking, furniture-making, etc.)

- as well as for those who do not want to have to entirely depend on others in future years for their house-building, maintenance, or modification needs.

## CABINET CONSTRUCTION 12

This course is largely a self-directed experience in which the learning outcomes and projects are a result of negotiation between the teacher and the student. In recognition of the student's accumulated woodworking experience, he or she is encouraged to direct their project building energies towards the construction of items of personal challenge and usefulness. It is expected that larger-scale "master piece" type projects will be built by students in this course.

*Recommendation: WW 11*

## INDUSTRIAL EDUCATION – MECHANICS

### AUTOMOTIVE SERVICE TECHNOLOGIES (AST)

These classes are mainly competency-based theory with the focus of mostly hands on shop work. For the hands on part of the course you are expected to work in the shop diagnosing and repairing automotive service problems. A student successfully completing all four courses will be adequately prepared to pursue a rewarding career in a variety of associated trades and technologies,.

### LEVEL 1

This course introduces the student to the automobile by studying various components such as the basics of automotive engines, tires, and brakes and related theories of operation. Lab procedures involve the use of hand tools, servicing of the automobile. Autobody repair and refinishing will be explored. This course is required in preparation for AST LEVEL 2.

### LEVEL 2

#### Prerequisite AST Level 1

This course studies the basics of automotive engines, driveline and cooling system. Related practical lab assignments involve the disassembly, inspection and reassembly of unit components. There are opportunities for the student to learn any aspect of the automotive systems in this course of study. It is not limited to the studies mentioned above. Autobody repair and refinishing will be explored. Students learn the use of various pieces of shop repair, test, and diagnostic equipment.

## HOME ECONOMICS

### FOOD STUDIES 10

Prepare the foods from different regions of Canada. Learn about customs and traditions while exploring new tastes and revisiting old favorites.

## **FOOD STUDIES 11**

This course provides the knowledge and training in foods required for personal and family use as well as the study of nutrition. Topics include work organization, food purchasing, use of prepared and partially prepared foods, meal planning, cookery techniques, and the serving of meals. The students will leave the course with a collection of their "Favorite Recipes".

## **FOOD STUDIES 12**

This course provides experience in preparing international foods. The production of more complicated food items requiring advanced techniques will be studied. Students will be concerned with nutritional values, food processing, cost factors, and recipe selection. The students will leave the course with a collection of their "Favorite Recipes".

## **TEXTILES 10**

Adjusting commercial patterns for personalized fit and a variety of construction techniques will be taught. Projects constructed from a various fabric types will not be limited to clothing but may include decorator items, accessories and quilting. Students will choose projects that match their abilities and interests.

## **TEXTILES 11**

The use of specialty fashion fabrics will be introduced in this year. Altering patterns for personalized fit and various construction techniques will be taught. Projects of choice will be constructed from commercial patterns and/or personal design. Students will choose projects to match their abilities and interests.

## **TEXTILES 12**

This course will especially appeal to students who are interested in the fashion industry. Fashion drawing & design are a part of this course. Students will be expected to challenge themselves in their choice of patterns, fabrics and embellishments. Students will choose projects to match their abilities and interests.

## **FAMILY STUDIES 11**

This course focuses on children from conception to adolescence. It will give you an understanding of the pleasures and responsibilities that children bring. Time will be spent in learning ways to raise healthy, happy children. There will be many hands-on experiences with children to help gain insight into their lives. Computerized babies are available to role play parenting.

## **FAMILY STUDIES 12**

This course focuses on personal growth and family dynamics. It covers interpersonal relationships, handling stresses and crises in life, moving out, the joys and challenges of living on one's own, and the cycle of the family. Computerized babies are available to role play parenting.

# **VISUAL AND PERFORMING ARTS**

## **ART 10**

Art 10 is considered to be the last foundation year of introductory studio courses. It offers instruction in visual art media and the processes involved in creating art. Confidence is increased in the utilization of the elements and principles of design and students can produce imagery that demonstrates the development of their artistic skills, personal interests, and creativity.

Projects in drawing, painting, sculpture, graphics and printmaking continue to build skills and expertise.

## **ART FOUNDATIONS 11/12**

Art 11/12 is intended for senior students who may or may not have taken any junior level art courses and would like an art course that covers the basics of art and design while offering art experiences that suit their age and interest level. The visual arts areas of expression are drawing and painting, sculpture and ceramics, graphic arts (collage, poster design) and printmaking (linocuts, silkscreen printing, monoprints, etc.).

## **GRAPHIC DESIGN/PRINTMAKING 11/12**

A course in graphic design introduces the student to the world of the graphic designer. Today, graphic design is both an art and a profession in which artists selectively arrange visual elements through the use of typography (lettering), images (created by either illustrators or photographers), and colours in order to convey a message to an audience. Graphic designers combine words and images to create a new art form.

Graphic art processes include, the relief process (linocuts, woodcuts), intaglio (etching), and the stencil or serigraphy process (silkscreen printing).

Printmaking methods explore a variety of themes and approaches: fabric (t-shirts or fabric design), advertising art forms such as magazine design, poster design, cartooning, and the use of printmaking as an art form in itself. A black & white photo unit may be included.

## **DRAWING AND PAINTING 11/12**

These courses are intended for those students who wish to focus their studies on two-dimensional art processes and continue to develop their personal means of expression and design. Drawing skills are reviewed and enlarged upon through the use of a variety of wet and dry media (charcoal, conte, pastel, pen and ink, etc.). Painting skills also continue to be developed

through the use of a variety of painting media (acrylics, water colour, and collage) and the use of technique. The study of art both past and present support the exploration of style, media and process.

## CERAMICS & SCULPTURE 11

Ceramics and Sculpture 11 provides students with the opportunity to engage in a focused and in-depth study of ceramics and sculptural processes. Students will become knowledgeable and skillful in the materials and processes used in the development of 3-D art forms. This will include the creation of freestanding hand built clay sculptures. In addition, students will explore a variety of sculptural processes such as soapstone carving and Paper Mache sculpture. Students are provided with opportunities to expand their technical skills no matter what level of experience they currently possess and to develop the skills, knowledge and attitudes required to create skillful, purposeful and creative artwork. **This course meets the fine arts graduation requirements.**

## CERAMICS & SCULPTURE 12

*This class builds upon the skills learned in Ceramics and Sculpture 11.* Students will continue to develop their understanding of how to build with clay and make three-dimensional artwork. In addition students will continue to have the opportunity to develop their skills and assignments will build upon and expand confidence in working with sculptural materials. **This course meets the fine arts requirement for graduation.**

## DRAMA 10

This course marks the transition between Drama and Acting. Beginning with creative drama, the course explores movement and mime, and then works toward performance of story theatre for elementary audiences. **Students should be aware that some written work is required.**

## FILM & TELEVISION 11

Shoot video? Ever wonder how to what it REALLY takes to make those videos look more professional? This introductory course will show you how. All areas of the production process will be covered to help you achieve your goals more affectively: storytelling, storyboarding, camera shots and angles, directing, filming, editing, audio, lighting, and production management. Assignments will include shooting two or more films that will later be sent to festivals around the world. Theory work will include viewing and critiquing films and apply that learning into their final projects. Students can expect to finish the course and be able to produce their own independent films.

***\*This course is open to Grade 10 students as well.***

## ACTING 11

This course is an introduction to formal theatre. Because theatre

is primarily concerned with communication to an audience, this course will deal with a new discipline in its own right. The theatre course will use the creative skills developed in Drama 8, 9, and 10, and add to them a history of the theatre, plus the technical skills of communication.

Students should be aware that some written work is required.

***Recommendation: Preferably DR 10 or an active interest in acting.***

## ACTING 12

The groundwork in Acting 11 will be put to good use in Acting 12. After an introductory unit in Theatre Sports, the course will concentrate on acting styles, including Shakespearean and Restoration. After a short course on audition techniques the course will finish with a production of student scenes.

***Recommendation: ACT 11***

## MUSIC PROGRAM

There are two performing options for Band - Concert Band and Stage Band.

### Concert Band 10

The Concert Band is the main ensemble for brass, woodwind, and percussion. These bands will involve the majority of students in the Music Program and perform a wide variety of musical styles, including Classics, Overtures, Film Music, and some Pop music. The Concert Band will perform in concerts, festivals, and on tour.

***Recommendation: Previous level of Concert Band or permission of instructor.***

### Jazz Band 10

The Jazz Band is open to players of trumpet, trombone, saxophone, keyboard, guitar, bass, and drums. Jazz Band musicians will study and perform Jazz, Latin, and Rock styles and they will have an opportunity to learn solo improvisation. The Jazz Band will perform in concerts, festivals, and on tour. Jazz Band cannot accommodate all music program students.

***JAZZ BAND PLAYERS ARE STRONGLY URGED TO ELECT CONCERT BAND IN ADDITION TO JAZZ BAND IF THEIR SCHEDULE PERMITS.***

Students desiring to participate in extra-curricular band groups must also be registered and participate in a concert band or jazz band course or have their counsellor's permission.

### CONCERT BAND 11/12

The Concert Band is the main ensemble for brass, woodwind, and percussion. These bands will involve the majority of students in the Music Program and perform a wide variety of musical styles, including Classics, Overtures, Film Music, and some Pop music. The Concert Band will perform in concerts, festivals, and on tour.

### JAZZ BAND 11/12

The Jazz Band is open to Grades 9 to 12 players of trumpet, trombone, saxophone, keyboard, guitar, bass, and drums. Jazz Band musicians will study and perform Jazz, Latin, and Rock styles and they will have an opportunity to learn solo improvisation. The Jazz Band will perform in concerts, festivals, and on tour. Jazz Band cannot accommodate all music program students.

***JAZZ BAND PLAYERS ARE STRONGLY URGED TO ELECT CONCERT BAND IN ADDITION TO JAZZ BAND IF THEIR SCHEDULE PERMITS.***

Students desiring to participate in extra-curricular band groups must also be registered and participate in a concert band or jazz band course or have their counsellor's permission.

## **GUITAR 10-12**

This course is designed to meet the needs of guitar players of all levels focusing on skill development, chord forms, movable scale patterns, technical picking patterns, note and tablature reading skills, and performance. Students supply their own acoustic guitar.

## **DANCE PROGRAMS**

### **DANCE 9 - 10**

The focus of this course is on movement in a variety of genres including contemporary, hip hop, jazz, modern stage, ballet and tap. Students will learn basic technique in each area and develop their skills through intensive daily training (combinations, barre work, stretch and strength). Students will learn the basic principles of choreography and performance and how to utilize these principles in order to create and perform dynamic choreography. Students will choose to focus on choreography or performance depending on his or her preference and all students will participate in a final showcase.

### **DANCE 11 - 12**

The focus of this course is on movement in a variety of genres including contemporary, hip hop, jazz, modern stage, ballet and tap. Students will continue to develop basic technique in each area and develop their skills through intensive daily training (combinations, barre work, stretch and strength). Students will learn the basic principles of choreography and performance and how to utilize these principles in order to create and perform dynamic choreography. Students will choose to focus on choreography or performance depending on his or her preference and all students will participate in a final showcase. This is an excellent course for student who dance outside of the timetable and want to improve their overall technique and choreography/performance skills.

## **SPECIALIZED PROGRAMS**

### **PEER TUTORING 11**

This course is an option for very responsible students who model exemplary student behaviour interested in the opportunity to help fellow students and to develop their own interpersonal skills. After a short orientation/training session with the peer tutoring teacher, students will be placed in an appropriate setting to assist a teacher. Students will be involved in the tutoring of individual students or groups. Students are graded by their sponsor teacher, and on weekly journals and assignments. Diverse placements are available to the peer tutor ranging from electives (e.g. computer studies, PE, drama), academic courses (e.g. Science, French, Math), to special settings such as Skills for Life and the L.A. Centre.

Students considering this course need to have a proven record of reliability and good work habits, as well as a desire to help others. A strength in at least two subject areas is also desirable.

### **HUMAN SERVICES LEADERSHIP 11**

The focus of Leadership 11 is to increase students' understanding of leadership and to apply leadership skills and styles in a variety of group and individual projects. This course aims to foster an awareness of our responsibility as individuals and as members of the community. Students have the opportunity to develop lifelong skills in areas such as communication, conflict resolution, problem solving, team building, goal setting, time management, project planning and public speaking.

### **HUMAN SERVICES 12A** ***(Peer Tutoring Focus)***

In this course, students will be provided an opportunity to develop leadership skills and continue to assist their fellow students through Peer Tutoring.

### **HUMAN SERVICES LEADERSHIP 12B**

This course will build on the skills learned and practiced in Leadership 11, while providing a greater opportunity to take a leadership role within the course. Students will have the opportunity to build skills in a variety of projects and activities and activities within the school and community. Students will continue to build skill in communication, conflict resolution, problem solving, team building, goal setting, time management, project planning, and public speaking.