

ENGLISH 12

EN600 Grade Level 12 Credits 4.000

Speaking, listening, reading, writing and critical thinking skills continue to be the foundational pillars of this course; with the New Curriculum, First Peoples' literature and issues will also be studied. Students will read, view and listen to, and respond in writing and orally to, short fiction, novels, poetry, essays and drama; students will also complete an Independent Inquiry Project based upon a foundational text (of their choosing) and one of the five options outlined in the New Curriculum.

ENGLISH 12 FIRST PEOPLES

EF600 Grade Level 12 Credits 4.000

EFP 12 is one of the three courses available for students to satisfy the grade 12 English Language Arts graduation program requirements. Students will study authentic First Peoples' texts in a variety of traditions with a strong emphasis on the oral pedagogy of First Peoples' culture and First Peoples' world views. Students will focus on the central themes of Identity and the Significance of Colonization. This course is open to all students who have completed the prerequisite. The structure of the course lends itself to activities that stress cooperative learning and creative thinking. A Provincial Exam worth 40% of the final mark must be written by all students in this course. Assignments and activities will include oral and written projects and assessments related to literature topics covered.

GRADUATION TRANSITIONS

GT600 Grade Level 12 Credits 4.000

Graduation Transitions is an ongoing process throughout the graduation years, starting in Planning 10 and culminating in Grade 12. This is an opportunity for students to reflect on their knowledge and abilities and plan for life after graduation. Students must collect evidence of their achievements in the following required areas. Personal Health - students develop a personal health plan and document participation in 150 minutes per week of moderate to vigorous physical activity in Grade 10, 11 and 12. Community Connections - Students explore personal and career goals during secondary school and create a plan for life after graduation. Successful completion of Graduation Transitions is required to graduate.

ABORIGINAL STUDIES 12

AS650 Grade Level 12 Credits 4.000

This course focuses on the oral and artistic expression of Aboriginal cultures. It also deals with Aboriginal traditions, issues and customs, both pre- and post-European settlement. Students in this course are encouraged to take a leadership role in the class, school and wider community. Aboriginal Studies is a graded elective.

ACCOUNTING 12

BE610 Grade Level 12 Credits 4.000

RECOMMENDATION-This course should be taken by students considering a career in business, and is a required course for the Accounting Career Prep Program. Student workbooks used in class may be purchased. COURSE CONTENT-Accounting 12 enables students to use industry-standard software and systems to analyze and solve accounting problems and produce and present accounting reports for a small business. Topics covered include: Accounting cycle to Financial Statement, Depreciation, Bank Reconciliation Statements, Payroll and Inventory Applications, Accounting for a partnership, a corporation and financial analysis; Simply Accounting 6.0 software will be used. ASSIGNMENTS/ACTIVITIES-Recording transactions-general and specialized journals and ledgers. Preparing Financial statements. Keeping payroll records and using the computer for recording and statement preparation.

ENTREPRENEURSHIP 12

BE620 Grade Level 12 Credits 4.000

RECOMMENDATION-This course is recommended for anyone interested in learning about how business works. It offers a wide range of business topics and gives students the opportunity to develop skills through the creation of two real businesses. Depending on the success of these businesses, students will be able to earn money during the course. *COURSE CONTENT*-Students learn the theories of business development and operation. While these theories are being studied, practical business experiences will be planned, created and opened. Before Xmas students will engage in a corporate style business competition where teams are set up, products are developed and sold and profits are shared. For more information on this course, please see the Course Planning Guide. *ASSIGNMENTS/ACTIVITIES*-Students will be engaged in all three real business activities as well as numerous business planning assignments.

FINANCIAL ACCOUNTING 12

BE615 Grade Level 12 Credits 4.000

RECOMMENDATION-Financial Accounting 12 is for a Grade 12 student who would like to learn the basics of accounting including solving financial problems that business face. Students gain insights into financial problems and their solutions. This course will provide a sound background for a student who would like to learn to keep a set of books for a small business and/or pursue further study in accounting at the post-secondary level. Student workbooks used in class may be purchased. *COURSE CONTENT*-Accounting cycle for Service and Merchandising Business. Inventory Control, Cash and Internal Control and Financial Statement Analysis. *ASSIGNMENTS/ACTIVITIES*-Preparing journals and ledgers. Preparing financial statements. Preparing books for a small business. Using computer software for statement preparation and Completing Personal Tax Manually and Electronically.

ADVANCED DIGITAL MEDIA 12

DM660 Grade Level 12 Credits 4.000

Create your own Digital Direction! See www.3ddss.com Graphic Design-Phone Apps-Film & Audio Production-Game & Web Design

This course is for those already enrolled in or has completed DM12, and would like to pursue another stream of digital media (graphic design, film production, game design or web design); or spend more time furthering their interests in their current stream. Students will work on projects such as magazine layouts, poster design, scripting, shooting and editing movies or building their own video games or phone apps; learn to use tools such as Photoshop, Illustrator, Premiere Pro and GameMaker Studio. Use great equipment including HD professional camcorders, digital cameras, drawing tablets and 3-D printing! Students should be self-motivated and be able to work independently.

COMPUTER ANIMATION 12

DM625 Grade Level 12 Credits 4.000

OVERVIEW-Computer 3D Animation & CGI 12 is linked to the new 3D Digital Media program. Computer animation is a growth industry in BC. CGI skills with animation and modeling is a large part of that growth, with application to a diverse range of fields ranging from film and television production to computer game development and design. *COURSE CONTENT*-This course will provide students with the opportunity to develop a skill set that will enhance their transition to post-secondary and industrial animation opportunities. *Course Synopsis*: An advanced course in animation with an emphasis on character animation, mesh models, lighting, camera movement and more. The course will be project driven with an emphasis on using the principles of animation.

DIGITAL DESIGN MAKERSPACE 12**DM630** Grade Level 12 Credits 4.000

A Makerspace is a workspace where creative students come together to dream, invent, build and share their ideas. It is a combination of a computer lab, woodshop, laboratory, electronics shop and art studio. Students will have access to 3d printers, laser cutter, Arduino and Raspberry Pi kits, Lego Mindstorm robotics, flatbed printers, and cameras just to start. Students are encouraged to discover and follow their passions, invent new creations and solve real world problems with innovative thinking. IDS Course will give you a 2nd block of Makerspace.

DIGITAL DESIGN MAKERSPACE 12 IDS**DM630I** Grade Level 12 Credits 4.000

IDS Course will give you a 2nd block of Makerspace.

DIGITAL MEDIA DEVELOPMENT 12**DM650** Grade Level 12 Credits 4.000

This course is for grade 12 students, or students who have completed DM550. DM12 is part of the Delta Digital Design (3D) program. It is a flexible learning environment that allows students to pursue their own interests: graphic design, film production, game design, web design, or even 3-D printing! For those who have completed DM550 plus/or DM560, this course gives students the freedom to further explore their areas of interest with more individualized projects and the opportunity to develop their portfolio. Students should be self-motivated and able to work independently.

CREATIVE WRITING 12**EN620** Grade Level 12 Credits 4.000

Creative Writing is designed for senior students who have a flair and a passion for writing. Students will have opportunities to develop writing skills in a variety of genres, including memoir, poetry, short fiction, scripts and creative non-fiction. Students will also read and write in their journals daily. The focus of the course is on improving individual student's writing styles and increasing awareness of the publishing process and the broader writing community. The course will be critiqued through individual and collaborative workshops and the evaluation of writing portfolios.

ENGLISH LITERATURE 12 AP**EN610A** Grade Level 12 Credits 4.000**ADVANCE PLACEMENT**

Literary works are "thought experiments" that speak to the human condition. Authors through the centuries have attempted to communicate tentative answers and this course is a survey of some of the foundational writers of the English literary tradition. The course will deepen your understanding and appreciation of the ideas and writings that have shaped our contemporary democratic world. Students planning to attend post-secondary education will develop the writing and thinking skills required for success at university or college. Also, the student will be prepared for an optional Advanced Placement exam. The successful A.P. student can, for most university programs in North America, skip first year English. If preferred, the student can opt out of the exam and simply aim for English Literature 12 credits. Essays and tests will be the main assignments. This course can be offered as a blended DeltaAccess and school course for one hour per week.

FARM ROOTS MINI SCHOOL 12**ZFAR12** Grade Level 12 Credits 4.000

Farm Roots is an innovative mini school program where students build and design a working, sustainable farm. While learning the core curriculum, students develop leadership and

communication skills- preparing them for employment in today's world. Farm Roots students attend the campus in Boundary Beach every second day and their own high schools the other days. Students can earn up to 20 credits in this program from the core curriculum like socials and science. They can also earn university credit through the dual credit portion of the program through the Sustainable Agriculture Faculty of Kwantlen Polytechnic University. Take your learning outside! Close your textbook and learn while doing hands-on, real-life projects. For more information go to www.deltalearns.ca/farmroots.

CULINARY ARTS TRAINING 12

HE660 Grade Level 12 Credits 4.000

Culinary Arts program focuses on professional food preparation. Students learn and develop skills for the culinary industry. Culinary Art students take pride in creating delicious, nutritious and attractive food items for the schools "Pacer's Bistro" as well as occasional banquets. The recipes, equipment and pace of the program are representative of a professional kitchen. Students progress through baking, sandwiches, salads, soups, sauces and hot foods, as well as customer service and sanitation using a hands-on approach. Theory and the BC FoodSafe Certification Course are also taught through short lectures in the classroom. In addition, learning is achieved through exciting and dynamic culinary field trips. Many scholarship opportunities and awards are available to outstanding Culinary Art students. Students also develop an awareness of the need for constant attention to safety and hygiene within public food service operations.

FOOD STUDIES 12

HE600 Grade Level 12 Credits 4.000

Food Studies 12 is a very hands on practical course. Baking and cooking practices are continued with a focus on learning functions of ingredients as well as making multi course meals more nutritious. Pastas, meat and alternatives, vegetables, salads, as well as baked goods are a few of the units covered in this course. Course highlights will be a roasted stuffed chicken in the winter term as well as learning the technique of making ice cream cakes. No prerequisite required.

PROF'L BAKING & PASTRY ARTS TRAINING 12

HE670 Grade Level 12 Credits 4.000

Baking and Pastry Art focuses on professional preparation and presentation of baked products and pastry items. Students learn and develop skills for the baking industry. Students progress through yeast doughs, quick breads, pies, tarts, cakes, cupcakes, cookies, custards, frostings, syrups and sauces, using a hands-on approach. Baking and Pastry Art students take pride in creating delicious, high quality and attractive food items for the school's "Pacers' Bistro", as well as occasional banquets. The recipes, equipment and pace of the program are representative of a professional kitchen. Theory and the B.C. FoodSafe course are taught through short lectures in the classroom. In addition, learning is achieved through exciting and dynamic culinary fieldtrips. Many scholarship opportunities and awards are available to outstanding Baking and Pastry Art students.

TEXTILES STUDIES 12

HE620 Grade Level 12 Credits 4.000

Gives students the opportunity to think creatively while having fun and learning new skills and techniques. Textiles 12 will focus on fashion construction as well as other assignments given throughout the year. The course is designed to be self challenging for those students with a sincere interest in developing more advanced skills in sewing and using more difficult commercial patterns. Opportunities for using machine sewing, sergers, and embroidery will be given. Highlights of this course are the ability to choose projects that challenge each students sewing abilities while being in a fun and

relaxed atmosphere. No prerequisite required.

FRENCH 12 **LA600** Grade Level 12 Credits 4.000

*PREREQUISITE-Successful completion of French 11 (a standing of over 70% is recommended).
RECOMMENDATION-This course is highly recommended for students who wish to continue their language education. The programme D'ACCORD 2 will be used. COURSE CONTENT-The expansion of grammar and the exploration of more advanced grammar continues to be a focus in this course. French and French Cdn literature are introduced. ASSIGNMENTS/ACTIVITIES-There will be daily written exercises, and both oral and aural assignments in addition to component tests and quizzes. Reading extracts from the literature text (Decouvertes) and in-depth practice in writing compositions will be stressed.*

GERMAN 12 **LA610** Grade Level 12 Credits 4.000

*PREREQUISITE-Satisfactory completion of German 11 (a standing of over 70% is recommended).
COURSE CONTENT-The skills introduced in German 11 are further developed. The focus will be on more advanced speaking, listening, reading and writing skills.*

SPANISH 12 **LA620** Grade Level 12 Credits 4.000

*PREREQUISITE-Successful completion of Spanish 11 (a standing of over 70% is recommended)
RECOMMENDATION-Those interested in enhancing their reading, writing, listening comprehension and speaking skills in Spanish are encouraged to enroll. The program Realidades 2 will be used and students will improve their Spanish through reading authentic materials. COURSE CONTENT-The expansion of grammar and the improvement of reading, authentic documents, viewing latin movies, and creating numerous dialogues to practice speaking skills.*

CALCULUS 12 AP **MA602A** Grade Level 12 Credits 4.000

ADVANCE PLACEMENT

*COURSE CONTENT-This course is designed to prepare students for post-secondary courses in Calculus. At the end of the course, students will have the opportunity to write the AP Calculus AB Calculus Exam. This exam may provide students credit for the first semester of Calculus (Differential Calculus) at North American post-secondary institutions. A full description of this exam can be found at:
http://www.apcentral.collegebound.com/apc/public/courses/teachers_corner/2178.html.
The topics to be covered include: Limits, Definition of Derivative, Derivative Rules, Graphing Functions, Extreme Value Problems and Antidriviviatives.*

FOUNDATIONS OF MATH 12 **MA600** Grade Level 12 Credits 4.000

*PREREQUISITE-Foundations of Mathematics 11 with a minimum C+ Grade or better.
COURSE CONTENT- This is an elective academic course that expands on some of the topics studied in Foundations of Mathematics 11. Topics include financial applications, logical reasoning, probability, statistics, and relations and functions. This course is for students who do not need to study calculus in a post-secondary institution.*

PRE-CALCULUS 12 **MA602** Grade Level 12 Credits 4.000

*PREREQUISITE-Successful completion of Pre-Calulus Mathematics 11 with a recommended minimum C+ grade. A graphing calculator is required for this course.
COURSE CONTENT-This course is designed to prepare students for the study of Calculus. The topics covered include transformations, trigonometry, logarithms and exponents,*

combinatorics, and polynomial, radical and rational functions. This course will be offered both as a half-year semester course and a full-year linear course. Students who complete Pre-Calculus 12 prior to their Grade 12 year will be prepared for Advanced Placement Calculus beginning in September.

ACTIVE LIVING 12 (PE) PE600 Grade Level 12 Credits 4.000

Building on the knowledge, skills, concepts and activities of PHE 10, Active 11/12 focuses on finding activities that students can incorporate into their daily lives and fostering an appreciation for living and active and healthy lifestyle. Students will participate in a variety of activities and games; have the opportunity for community and school based field trips as well as support and encourage others in living a balanced and healthy lifestyle.

FITNESS & CONDITIONING (PE) 12- GIRLS PE620 Grade Level 12 Credits 4.000

Building on knowledge, skills, concepts and activities of PHE 10, Fitness & Conditioning 11/12 focuses on developing a students personal fitness level through a variety of activities both individual and group. Students will gain knowledge in the following areas: Human Anatomy and Physiology, Principles of Training, Healthy Living and Social Responsibility. This course will include community and school based field trips as well as school facilities that also include the weight room, gymnasium, field and surrounding community.

FITNESS & CONDITIONING 12 PE650 Grade Level 12 Credits 4.000

Building on knowledge, skills, concepts and activities of PHE 10, Fitness & Conditioning 11/12 focuses on developing a students personal fitness level through a variety of activities both individual and group. Students will gain knowledge in the following areas: Human Anatomy and Physiology, Principles of Training, Healthy Living and Social Responsibility. This course will include community and school based field trips as well as school facilities that also include the weight room, gymnasium, field and surrounding community.

ACTING 12 - THEATRE PERFORMANCE TH610 Grade Level 12 Credits 4.000

PREREQUISITE-Theatre Performance 11: Acting and a strong commitment to the DSS Theatre Program. Professional productions are recommended throughout the term. *COURSE CONTENT*-This course is designed for the advanced acting student who wishes to continue their training/studies in acting. It reinforces the skills stressed in Acting 11, but with emphasis on excellence in performance, character analysis, development and projection, voice, movement, blocking, self challenge and self critique and theatre experimentation. Script reading and analysis required. *ASSIGNMENTS/ACTIVITIES*: Students are required to act in the DSS annual One Act Play Festival. This commitment requires in class and after school rehearsals and performances. *Projects in:* acting styles, script monologue and dialogue, theatre history, mask work, auditioning and cold reads, play review and character analysis.

CONCERT BAND 12 - INTERMEDIATE MU600I Grade Level 12 Credits 4.000

General Information: This is a course for Grade 12 students with minimum 1 year of recent band experience (or equivalent). The skills learned at the beginner level are expanded through playing more complex music, music theory, history and listening. Students are expected to practice at home for a minimum of one hour per week. Mandatory concerts are also part of the program. Students can arrange for rental or purchase of

instrument through local music shop. (School will help facilitate this.) A limited number of instruments are available to borrow through the school on a needs basis.

CONCERT BAND 12 - ADVANCED

MU600S Grade Level 12 Credits 4.000

GENERAL INFORMATION-Students may provide their own instruments and miscellaneous equipment. Some instruments/equipment will be available through the school without fee on a needs basis. Students using school instruments will be limited in choice. Those who choose to have their own instrument may "rent to own" or purchase an instrument through retail music stores. The school will help facilitate this. This is a course for Grade 12 students who are at an advanced level. They must have had at least two years at the Intermediate level or have the director's permission to participate in this course. Instrumental Music 12: (Senior) provides a more challenging repertoire and greater emphasis on interpretation and musicianship. Students rehearse primarily during class time, but are expected to participate in weekly student-led rehearsals outside of class time, as well as in performances. Students are encouraged to participate in the annual spring field trip.

DIRECTING/SCRIPT 12- THEATRE PERFORMANCE

TH640 Grade Level 12 Credits 4.000

PREREQUISITE-Theatre Performance 11: Acting & enrollment in Theatre Performance 12: Acting. Admission to the course is based on the approval of the instructor.
RECOMMENDATION-It is highly advisable that the student has taken a course in stagecraft or has done extensive extracurricular work. As well, the student should be able to work well independently. They must also be able to devote out-of-class time to their project work.
COURSE CONTENT-A student learns to read and analyze scripts with the intention of production. This course requires the writing and directing of scenes and one act plays. The student learns the qualities of leadership and skills of cooperation with both staff and students. It is an excellent course in which to learn responsibility. This is an advanced theatre course.
ASSIGNMENTS/ACTIVITIES-Will include reading and writing scripts for various media and directing scenes and projects.

GUITAR 12 - INSTRUMENTAL MUSIC

MU630 Grade Level 12 Credits 4.000

GENERAL INFORMATION-There are 4 Guitar Programme Levels: #1 (Beginner/never played the guitar before) #2 (Novice/has a good knowledge of open chords & can read music in the 1st position) #3 (Intermediate/has the ability to play barre chords & is competent at alternate thumb picking with open chords) #4 (Advanced/alternate thumb picking with barre chords & has a good understanding of scales in different modes). NOTE: Each block of Guitar (except Gr 8) will have Gr 9-12 & a variety of levels 1-4. Guitars are provided for all students. *PREREQUISITE*-This is a course for Gr 12 students wishing to study the guitar. Students will be placed in an appropriate level 3-4. *COURSE CONTENT*-Skills taught in reading chord charts, tablature, notes and rhythmic patterns; also strumming & picking patterns through the study of appropriate songs. Will learn to write their own songs and have the opportunity to perform for the class individually or in small groups and to record their own songs using multiple track computer software.

GUITAR 12 - COMPOSITION & TECHNOLOGY

MU631 Grade Level 12 Credits 4.000

TAKE THIS COURSE IF: You want to combine your love of playing music with digital media. If you are an aspiring artist or find yourself listening to the soundtrack during a movie or love visiting bands' websites, this is a natural fit. *WHO CAN TAKE THIS COURSE?* This is a course for intermediate or advanced grade 12 guitar players with a strong desire to

learn all about sound recording and digital media. Students who have taken Guitar 11 (C&T) have the opportunity to build on their knowledge and experience to create more complex and professional projects. There will be a wide array of digital media projects; single and multi-track recordings, podcasts, music videos, live shows, creating jingles, movie soundtracks and more! Due to limited space, instructor approval is required.

BIOLOGY 12 **SC610** Grade Level 12 Credits 4.000

PREREQUISITE-Biology 11, minimum 67%. Chemistry 11 would be a benefit. *COURSE CONTENT*-Cell Biology: cell compounds, cell structure, biological molecules, DNA. Cell Processes and Applications: protein syntheses, transport across cell membranes, enzymes. Human Biology: digestive system, circulatory system, respiratory system, nervous system, urinary system, reproductive system. *ASSIGNMENTS/ACTIVITIES*-Assignments are given on a regular basis. As course content is demanding, students must be strong readers. A regular program of home study is essential to success in this course.

CHEMISTRY 12 **SC620** Grade Level 12 Credits 4.000

RECOMMENDATION-Minimum of 67% in Chemistry 11 with good work and study habits. *COURSE CONTENT*-The Chemistry 12 course contains the following topics: reaction kinetics, equilibrium, solubility of ionic substances, acids, bases and salts, oxidation - reduction. *ASSIGNMENTS/ACTIVITIES*-Assignments, homework and lab activities are assigned on a regular basis. A regular program of home review is advised for success in this course.

PHYSICS 12 **SC630** Grade Level 12 Credits 4.000

RECOMMENDATION-Physics 12 is recommended as a follow-up Physics course suitable for students who have a particular interest in Physics, or who plan to continue in science or engineering. Students taking Physics 12 should have a strong academic background in Math 11 and Physics 11 and be taking Math 12 concurrently. *COURSE CONTENT*-Vector kinematics, vector forces in equilibrium, vector dynamics, energy and vector momentum, circular motion and gravitation, electrostatics, circuitry and electromagnetism. *ASSIGNMENT/ACTIVITIES*-Problem solving, lab work, quizzes and tests.

COMPARATIVE CIV 12 **SS620** Grade Level 12 Credits 4.000

COURSE CONTENT-Comparative Civilization is a survey of the major historical periods which formed the beliefs and structures of man, from Early Stone Age to modern society. We study the music, art, literature and architecture of each major historical period. This course has an academic focus, while examining the foundations of major civilizations from around the world. It follows the Ministry of Education Integrated Resource Package prescribed learning outcomes, giving students an appreciation of a variety of cultures and their roots. A variety of teaching strategies are used to engage all learning styles.

CRIMINOLOGY 12 **SS660** Grade Level 12 Credits 4.000

COURSE CONTENT-Criminology 12 is an introductory course on the study of crime, criminals and the penal system. The topics include: the causes of crime, biological, social and psychological theories of crime, the roles of police, the treatment of criminals and organized crime. *ASSIGNMENTS/ACTIVITIES*-Activities include court watching at the B.C. Supreme Court and various guest speakers. Assignments are designed to analyze current events, details of specific crimes and criminals and the application of legal

defenses. Research, writing, critical thinking skills and the application of various theories are developed through a variety of assignments.

ECONOMICS 12

SS670 Grade Level 12 Credits 4.000

Economics 12 fills the admission requirements for local universities such as SFU and UBC. Students will understand how an economy works from a macro and micro economic perspective. In addition to economic concepts, students will also be taught how to put together and conduct business presentations, formal business reports, and to think critically. An emphasis is placed on what to expect from both a university course structure and a career in business. Topics include: Government policies and price controls, Supply and Demand, Economic Indicators, The Canadian and Global economy, Financial Securities and the Stock Market, The Real Estate Market, Incentives and Human Behaviour and Current Business new and trends.

GEOGRAPHY 12

SS650 Grade Level 12 Credits 4.000

COURSE CONTENT-Geography 12 accommodates students that are on the path of Science or the Arts. Some university programs will accept Geo 12 as a science admission requirement. Geography 12 is the study of the physical, natural and human elements of the global environment. It is the study of earth science, vegetation and animal life, natural disasters, ecology and environmental studies, maps and air photo interpretation, resource management and case studies. A number of fieldtrips will be happening during the course including one to Whistler to observe the fantastic examples of volcanic and erosional action in our area.

HISTORY 12

SS640 Grade Level 12 Credits 4.000

COURSE CONTENT-This is a thematic course covering the major events and significant figures in the world from 1917-1991. Students will study the post WWI world, The Great Depression, WWII, the Cold War and subsequent years up to the fall of communism in Europe. ASSIGNMENTS/ACTIVITIES - Tests in this course will include paragraph questions and document-based questions.

LAW 12

SS610 Grade Level 12 Credits 4.000

COURSE CONTENT-This course is an introduction to Canadian Law emphasizing criminal and personal injury law. ASSIGNMENTS/ACTIVITIES-Assignments include role playing group projects and mock trial presentations. Students are expected to incorporate class work with current legal issues.

AUTOMOTIVE TECHNOLOGY 12

IE640 Grade Level 12 Credits 4.000

PREREQUISITES: IE540 - AUTOMOTIVE TECHNOLOGY 11 (Recommended) RECOMMENDATION: This course is for anyone wishing to go into the Automotive trade or do any serious maintenance/repair on a car. Any serious hobbyist will find the knowledge and experience important and challenging. This course may also be taken as a credit for the Career Preparation/Work Experience Program. COURSE CONTENT: Areas covered may include engine operation and construction, transmission operations, clutches and differential operations and assembly. We take a brief look at the autobody area. In addition, we will look into the car and how it affects society. ASSIGNMENTS/ACTIVITIES: 33% Theory/67% Practical This course is project based and very student driven. Most of the shop time is unstructured providing students an opportunity to engage in work on a project that is meaningful to them. Example: Their own car, a family car, a friend's car, one of our shop projects (including our electric race vehicles).

Some time may be spent on labs.

AUTOMOTIVE TECHNOLOGY: AUTOBODY **IE641** Grade Level 12 Credits 4.000

RECOMMENDED PREREQUISITES: IE540 - AUTOMOTIVE TECHNOLOGY 11 It is also recommended the student be enrolled in IE640-AUTOMOTIVE TECHNOLOGY 12. RECOMMENDATION: Would you like to know how to paint a car? How about airbrushing an exciting graphic like flames? This course is for any student wishing to augment knowledge of the automobile or pursue a career in the autobody paint/repair business. A serious hobbyist/restorer will also find it invaluable. May also be taken as a credit for the Career Preparation/Work Experience Program. COURSE CONTENT/ACTIVITIES: This course will cover the theory of autobody construction, damage analysis, repair and refinishing. Theory will be reinforced by practical demonstrations and time for the students to practice and engage in real world hands-on repairs that are project based and student driven. Some students may also get the opportunity to paint components of a car, motorcycle, or other individually engaging projects.

AUTOMOTIVE TECHNOLOGY: ENGINE **IE642** Grade Level 12 Credits 4.000

PREREQUISITE-Automotive Technology 11. It is also recommended that the student be enrolled in Automotive Technology 12. RECOMMENDATION: This course is for the serious student wanting to either tackle a high level project like a motor/transmission/differential rebuild or looking to get into the trade, pursuing a career in and becoming an Automotive Service Technician. If the student is planning on a high level project, extra shop time is strongly recommended (taking more than one block). This course can also be taken as a credit for the Career Preparation/Work Experience Program. COURSE CONTENT: This course will run into greater detail on operations of the engine and its drivetrain. This will give students a much more in depth view of various engine types. Special areas such as pollution control and various testing equipment will also be covered. ASSIGNMENTS/ACTIVITIES: There are no major assignments in this course, although some labs focusing on an active project may be introduced at the discretion of the instructor.

CARPENTRY & JOINERY: 12 **IE611** Grade Level 12 Credits 4.000

PREREQUISITE: IE513 - Carpentry & Joinery 11. Carpentry & Joinery 12 must be taken concurrently as part of the Career Preparation Program. RECOMMENDATION: Carpentry & Joinery 12 follows the Grade 11 course and is recommended for those with an interest in woodworking and would like to learn more about basic house construction. This course meets the Applied Skills Foundation Studies requirement. COURSE CONTENT: Carpentry & Joinery 12 continues to provide the students with the opportunities to deepen their knowledge, skills and attitudes in this area as a preparation for a career or special interest. They will learn safety, problem solving and personal skills that can be helpful in many endeavours. ASSIGNMENTS/ACTIVITIES: Students in this course build a major construction project such as a small house, shop, or other related project in the school compound. That structure is then transported to the site and erected at the end of the school year.

CARPENTRY & JOINERY:RESIDENTIAL **IE612** Grade Level 12 Credits 4.000

PREREQUISITE: Carpentry & Joinery 11. Must be taken concurrently with Carpentry & Joinery 12 or with instructor's special permission. Required for Career Preparation Program for Carpentry. RECOMMENDATION: Recommended for students with interest in learning more about house construction. This course meets the Applied Skills requirement and better equips students for post-secondary education or an apprenticeship

in construction. *COURSE CONTENT:* Follows and builds upon work done in Carpentry & Joinery 12. Emphasis is on house construction, allowing students more time to work on specialized areas of the construction of the major project. *ASSIGNMENTS/ACTIVITIES:* Students will continue working on the housing project or a major project to that effect. With involved processes in framing, stairs, windows and doors, the project comes together to a fully functional structure that will be erected on site.

CARPENTRY & JOINERY 12: CABINET

IE613 Grade Level 12 Credits 4.000

PREREQUISITE-Can be taken only with the successful completion of Carpentry & Joinery 11. It must be taken concurrently with Carpentry & Joinery 12 or with special permission obtained from the instructor. It is required as part of the Career Prep Program for Carpentry & Joinery. *RECOMMENDATION*-Those who wish to learn more about building cabinets in shop, those considering woodworking (of any type) as a career, and for those planning to enter a construction program at a post-secondary institution or apprenticeship in the construction trades. It can be used to meet the Applied Skills. *COURSE CONTENT:* Additional exposure to the construction shop is the emphasis of the course. Proper and advanced uses of machine tools and processes in regards to fine woodworking, finishing carpentry and cabinet construction. A variety of finishes will be explored including spraying on water based coatings to make projects look of very high quality! *ASSIGNMENTS/ACTIVITIES:* Real world skills generated through student led projects.

DRAFTING & DESIGN 12

IE620 Grade Level 12 Credits 4.000

No PreRequisite required - Drafting & Design 12 is a course that will interest students who wish to increase their knowledge of art skills with drawing and designing of manufactured products. Working with computers within a CADD (Computer Assisted Drafting & Design) in a 2D and 3D design world. ACAD, Blender, Slulptris, Sketchup and other software will be explored. *COURSE CONTENT* - This course will provide opportunity to investigate any techniques used to communicate graphically in industry. Modules include use of scales, linetypes, geometry, views, dimensioning, freehand sketching and rendering, perspective, sections and conventions. Model making may also be explored. Using 3D software - design and model an object on computer - then print the model on our 3D printer.

DRAFTING & DESIGN: ENGINEERING

IE621 Grade Level 12 Credits 4.000

RECOMMENDATION-Engineering & Mechanical Drafting is recommended to students wanting to improve their skills in drafting with a focus on mechanical/engineering drawings. Computer Assisted Drafting, Auto Cad and other software will be used in this course. Those who may want to pursue a career in the multi-level use of engineering drawings within industry will benefit from this course. *COURSE CONTENT*-Engineering & Mechanical Drafting will build on drafting and design fundamentals learned in Drafting & Design 11. It will provide opportunity to master many techniques used to communicate graphically throughout industry. Modules include: use of scales, line types, geometry, views, dimensioning, grid system, auxiliary and section views. Freehand sketching/rendering, developments, and perspective. *ACTIVITIES*-Students complete a series of assignments in accordance with the National Drafting Core. A major emphasis will be on increasing computer skills using our high level CAD lab.

DRAFTING & DESIGN: ARCHITECTURE

IE622 Grade Level 12 Credits 4.000

RECOMMENDATION-If relationship between form, function and structure interests you, welcome to Drafting & Design 12: Architecture & Habitat Design.

COURSE CONTENT-This course looks at architectural styles and cultural influences related to various architectural designs. Students evaluate role of climate and location, structural materials and systems and building technologies in various cultures and time periods. *ACTIVITIES*-Students will apply design sketching and rendering techniques in communicating design ideas. This will evolve through appropriate techniques, symbols and conventions to prepare a set of working drawings of their habitat design. Projects are completed as 2D & 3D representations with Camera Walkthrough as 3D CGI. Emphasis will be placed on the use of Computer Assisted Drafting & Design (CADD) with various graphic software programs, including 3D Blender.

METAL FABRICATION & MACHINING 12

IE650 Grade Level 12 Credits 4.000

PREREQUISITE: None! *COURSE CONTENT:* Metal Fab and machining 12 teaches several processes for working with metals. In our well-equipped Metal Shop, we use processes like machining on the Lathes and Milling Machines, MGAW and Stick Welding, Brazing, Sand Casting, Sheet metal forming and light CNC (computerized) machining.

ASSIGNMENTS/ACTIVITIES: Students build several Skill Building projects throughout the year such as Cast Aluminum C-Clamp, Soft-Faced Hammer and Foot Stool. They progress to a Term 3 Project combining many processes in the shop. Students in their second year of Metal Work might be grouped for larger projects like Go Karts, Mini Bikes, Bicycle Trailers, etc. We encourage real-life applications for the processes taught such as shoe racks, lift kits, bike carriers, wine racks, grappling hooks, chin-up bars, and almost anything else you can imagine being made out of metal! We apply the processes learned in fun, useful and challenging real-life projects to last a lifetime.

WOODWORK TECHNOLOGY 12

IE610 Grade Level 12 Credits 4.000

This course is for anyone, of any skill level. Beginners will get instruction on all machines and processes in the shop. Experienced students will design and produce higher level projects with more advanced woodworking concepts and processes. Depending on experience and skill level students will have choices for projects. Higher level projects have included a grandfather clock, complex and stunning dining room tables, 3D Router-produces signs and headboards, and larger cabinet projects. Please visit dsstech.ca!

ART FOUNDATIONS 12

AR600 Grade Level 12 Credits 4.000

Only to be taken by course teacher approval. (May be taken in addition to AR500-Art Foundations 11.)

This is an individualized program for students who are also enrolled in Grade 11 courses in Art and require more time to pursue their passion for art and/or photography. Students in Foundations are serious about art and independently work on projects and assignments that may lead to an entrance portfolio for an art/design school of choice. This independent course of study must be approved by the supervising teacher.

CERAMICS & SCULPTURE 12 - STUDIO ARTS

AR630 Grade Level 12 Credits 4.000

COURSE CONTENT-This course continues to build skills, a knowledge base and context relating to ceramics and sculpture. Individual programs that explore personal image development are encouraged. The basic course explores the world of 3D design and sculpture through paper mache, cardboard, found object construction and small clay projects. Enhanced projects include the use of glass and metal and include glass bead making, stained glass, glass fusing, mosaics and larger clay projects.

DRAWING & PAINTING 12 - STUDIO ARTS

AR620 Grade Level 12 Credits 4.000

PREREQUISITE-Students should have successfully completed Studio Arts 11: Drawing and Painting 11. COURSE CONTENT-This course continues to build upon the foundations of drawing and painting that has been constructed in Grade 11. Emphasis will continue to be placed on skill building and students will have opportunities for self study. Find your passion and feed it through your commitment to excellence. ASSIGNMENTS-Study Picasso and create a cubist portrait. Learn to analyze and try painting like your favourite artist. Refine your understanding of drawing the figure through studying bones and muscle. Try drawing like Leonardo. Play with shadow and light like the surrealist Magritte. Push yourself through self-directed learning.

MEDIA ARTS 12- PHOTOJOURNALISM

AR652 Grade Level 12 Credits 4.000

PREREQUISITE- Media Arts 11 or basic working knowledge of digital cameras and photograph techniques. This course is for students enthusiastically interested in taking photographs for the DSS Yearbook. Those who have already completed Media Arts 11, there is the opportunity to take on a leadership and organizational role. This course is about capturing all the events, highlights, memories and everyday life of DSS students throughout the year. Students will learn about taking candid, event and action photos and preparing them for print, as well as the theory and techniques for creating professional quality layouts. Interpersonal skills and teamwork are paramount as working closely with the yearbook production team is essential.

PRINTMAKING/GRAPHICS 12-PHOTOGRAPHY

AR651 Grade Level 12 Credits 4.000

"Photography takes an instant out of time, altering life by holding it still." Dorothea Lange

This course will expand on processes learned in Photography 11. Students will learn how to work with multiple exposures and textures. Students will work with exciting processes like capturing water the moment an object is dropped into it, or the beautiful, organic quality of smoke. Students will continue their learning about studio lighting and how to take glamour and beauty shots. Capturing motion will be explored in greater detail in a process called shutter drag. Students will also learn the close association between studio lighting and cinematic lighting. Self directed projects will be cultivated as students create a body of thoughtful creative work. Digital photography will be explored in great detail through photoshop as well as some analogue and darkroom work.

YEARBOOK DESIGN 12

AR653 Grade Level 12 Credits 4.000

PREREQUISITE-The production of the yearbook requires students from many different disciplines: photography, graphic design and media arts; business education, desktop publishing, marketing and journalism. Students must be self-motivated and be able to work well with others. Yearbook Production is strongly recommended as it is a unique opportunity. No other course offers the experience and the prestige of producing a book that will create memories for a lifetime. The DSS yearbook has an award winning tradition of creative and professional design. Crew members must be able to work in group situations under real-world deadlines. The yearbook is a lot of work, but it is also one of the most rewarding high school experiences. Course content includes theme theory and creations; yearbook layout design (manual and InDesign); photography and photo-correction for print; image creation using Illustrator and photoshop; creative writing and proofing; marketing and advertising; plus time, file and people management skills.

CHORAL MUSIC 12: CONCERT CHOIR

MU620 Grade Level 12 Credits 4.000

(after school)

This course is designed for all students interested in developing their singing voice. Previous choral experience is helpful, but not required. Students will learn choral singing skills and basic music theory. They will learn to sing in a variety of genres such as: jazz, pop, folk, classical, musical theatre, etc. Students will be evaluated in the areas of performance, participation and musical proficiency (technique, style, etc.) Because the choir is performance-oriented, students are given the opportunity to perform in school concerts as well as to travel both locally and abroad to enrich their choral experience. There is no prerequisite course. THIS COURSE WILL BE OFFERED AFTER SCHOOL 2 DAYS PER WEEK. STUDENTS SHOULD SELECT THIS COURSE IN ADDITION TO THEIR 8 COURSES.

THEATRE COMPANY 12

TH630 Grade Level 12 Credits 4.000

ONLY GR 11 QUALIFIES AS FINE ARTS CREDIT

This course is an opportunity to be part of a cast of a scripted play. The creation and performance of a theatre production requires collaborative efforts of the entire company. In place of an extracurricular production, this course is offered outside the timetable 2 days a week after school with the time commitment increasing closer to show date. Students should select this in addition to their eight courses. They learn about the nature of a Theatre Company and the interconnected roles and responsibilities, both on stage and behind the scenes. Students are required to have a mature, committed and professional attitude towards the creative and rehearsal process and performance. By doing so they learn skills and attitudes necessary to perform within a Company, including valuable personal and interpersonal skills that they can apply in broader social and career contexts. Acceptance is by audition in early Spring (singing, acting and dancing). Pls note: Rehearsal demands increase closer to show date requiring increased attendance.

THEATRE PRODUCTION 12- SENIOR STAGECRAFT

TH620 Grade Level 12 Credits 4.000

Technical Theatre II - This course expands on skills gained in the junior years with the added bonus of connecting and working with professionals in community theatre. Students in this course are taught to be crew chiefs and take on a mentorship role in the program. Personal projects in an area of your coice are encouraged. This course runs outside the timetable once a week and can be taken more than once. Students will be expected to crew in a number of shows.