

Course Planning Guide 2015-2016 School Year



Pender Harbour Secondary School
Madeira Park, BC V0N 2H1
Tel: 604-883-2727
Principal: Paul Bishop

A Message from the Principal

Welcome...

TO THE 2015/2016 COURSE PLANNING PROCESS!

This course selection booklet has been published to assist students and parents with the important task of arranging the academic program for next year. This is one of the most important activities prepared by our school. As you consider your options, please keep in mind your post secondary goals. The courses that we offer enable all students the opportunity to access post-secondary program pre-requisites. Although courses are determined by the number of students that request them, we do realize that students can choose to take courses on-line through our local Distributed Learning School, SPIDER, or other programs around the province. The staff at Pender Harbour Secondary School provides in-class support through the use of Learning Centre (formerly Applications for Learning) classes to ensure that students have the structure to succeed. However, it is also important for parents to remember that they need to be involved with student course work and maintain good communication with all of your child's school teachers. Finally, I encourage all students to speak to their parents/guardians, teachers and school counselor about the course selection process and its implications on their future aspirations.

We continue to strive for a school experience that provides a variety of exceptional programs designed to meet the needs of our school community. Students have an important role in creating their school experience and our focus is to enable students to take greater ownership of their learning. Students have the ability to engage in their learning in a way that best meets their own learning style. Therefore the choices that you make should challenge you to meet your potential, and provide you with the knowledge, skills and attributes that will pave the way to your future success.

Best wishes, Mr. Bishop

A BIT ABOUT THE SCHOOL...

STUDENT SERVICES

Counseling Office

A Counselor is available to assist students with a variety of issues including personal counseling, academic advising, interpersonal conflict etc. Referrals to other professionals and agencies can be discussed with your school counselor. Counselors are in the unique position of following students' progress over their five high school years. All students are welcome to drop by to meet the teacher-counselor: Lorraine Dimond

District Aboriginal Support Teacher: Tamara Forsyth-Jacobsen

Teachers in the District Aboriginal Education Support Program provide academic and transitions support for students with Aboriginal heritage, as well as Aboriginal cultural teaching enrichment for all students and classes.

Learning Assistance

Our Student Support Services teacher helps coordinate assistance to students needing help with the development of learning and study habits. Students will improve their academic levels in all subject areas.

Student Support Services

Support Services are provided to students with physical disabilities, chronic health impairments, neurological disorders, and behavioural challenges through the office of the Support Service Teacher. Services may include:

- creation of an individual education plan
- support of Education Assistants in the classroom
- referral for district support services (Speech & Language, Occupational Therapist, Visual Impairment teacher, Autism Specialist, etc.)
- referral for assessment (achievement & cognitive testing)
- coordination with other agencies (MCFD, Probation, Community Services, Children's Hospital, Sunny Hill, Provincial Outreach for Autism & Related Disorders)
- securing adjudication for Provincial and school exams
- application to SET-BC for technology solutions
- overall monitoring of a student's progress at school

HOW TO USE THE COURSE SELECTION GUIDE

Overview

This guide has been put together to help students and parents determine the best course of study over the secondary school years.

Inside will be found a list of required courses for Grades 8-12 and a description of all those elective courses from which a student is able to choose. Students at junior levels should look ahead to what they may want to take in their senior grades to ensure that the appropriate junior courses are taken.

Our goal is to work with students to provide choice and flexibility of programming. Students will have the option of both face-to-face courses scheduled into set blocks, along with other supported blocks for students who wish to take courses through Distributed Learning. Our staff work closely with Distributed Learning schools and teachers to ensure that students receive the help they need to succeed. As with every course, it is up to the student to complete the work and maintain close communication with teachers.

For more information concerning any of these courses or for any assistance in making your decisions on course selection please contact the school at 883-2727.

COURSE SELECTION FOR GRADE SEVEN, EIGHT & NINE

Students must take the following courses in grades Seven and Eight: English, Social Studies, French, Science, Mathematics and Physical Education.

In addition, students will receive a sampling of exploration courses scheduled throughout the school year. Students in grade 7 will take music, while grade 8 students will have Band as an option. Grade 8 and 9 students not taking Band will have a different elective offering such as Art, Woodwork or Foods.

French is an optional course starting in Grade 9. Students, with parent permission may choose to have a different elective course. (Please note: a Language 11 is a requirement for some post-secondary programs. Please check this guide and confirm with the school counselor for more info.)

THE GRADUATION PROGRAM!

Students in grades 10-12 are on the graduation program.

BRITISH COLUMBIA GRADUATION REQUIREMENTS

80 credits are required to graduate and are comprised of the following: **52** required credits, (including Grad Transitions) and **28** elective credits.

52 credits are required courses, including:

English 10	4 Credits
English 11 (or Communications 11)	4 Credits
English 12 (or First Peoples 12 or Communications 12)	4 Credits
Social Studies 10	4 Credits
Social Studies 11 (or B.C. First Nations Studies 12)	4 Credits
Science 10	4 Credits
a Science 11 or 12	4 Credits
a Mathematics 10	4 Credits
a Mathematics 11 or 12	4 Credits
Physical Education 10	4 Credits
Fine Arts or Applied Skills 10, 11 or 12	4 Credits
Planning 10	4 Credits
Graduation Transitions	4 Credits
Total:	52 Credits

28 credits are elective credits: These credits are earned throughout grades 10, 11 and 12. A minimum of 12 credits at the grade 12 level must be attained.

Graduation Planning Program

Graduation Transitions is a requirement for all BC secondary school students. It is an opportunity for students to reflect on their knowledge and abilities and to plan for life after graduation by collecting evidence of their achievements in the following required areas: Personal Health, Community Connections, and Career and Life. Upon completion of the minimum requirements, a "Requirement Met (RM)" mark will be assigned, and students will earn four (4) credits toward graduation. This course is outside of the timetable and is required for graduation.

Planning 10: This course has a focus on:

- 1) The Graduation Program - the components of the program and requirements for graduation.
- 2) Education planning and Careers - exploration and options.
- 3) Financial planning - for successful transition from secondary school to further education/training or employment and household budgeting.
- 4) Health - informed decision making.

Provincial Exams

There are five required provincial exams:

- 1) English 10
- 2) Math 10 (Apprenticeship and Workplace or Foundations and Pre-calculus)
- 3) Science 10
- 4) Social Studies 11 (or Canadian Civics 11 or B.C. First Nations Studies 12)
- 5) English 12 (or Communications 12)

The grade 12 exam is worth 40% of the overall mark, while the others count for 20% of the final mark. Provincial Scholarships are now based on the five provincial exams. To be awarded the \$1000, a student must be in the top 5000 students in BC based on the average of the five provincial exams. The student must have completed the courses & written the exams & have a final blended mark of B in English 12. Recipients are notified in October of the year following graduation.

COURSE DESCRIPTIONS

ENGLISH

English 10

The purpose of English 10 is to provide the opportunity to pursue the acquisition of basic English language skills preparatory to English 11. It covers the process aspects of both reading and writing based on a broad theme. English 10 has a mandatory provincial exam worth 20% of the final mark.

Communications 11

This course satisfies graduation requirements for Language Arts 11. There is less emphasis on literature and more emphasis on practical communications. Students with academic post-secondary plans should take English 11 and 12.

English 11

The purpose of English 11 is to provide students with the opportunity to complete the acquisition of basic English language skills preparatory to English 12, while introducing students to the skills necessary for analysis and critical evaluation of literary and rhetorical forms. Areas of student study include reading, writing, listening, speaking and language development.

Communications 12

The purpose of Communications 12 is to encourage the reading of a wide variety of literary forms, to encourage personal expression both orally and through expository competence and to prepare students for the job market. This course has a mandatory provincial exam worth 40% of the final mark.

English 12

English 12 focuses on the expressive, functional purposes of language and its uses in a wide variety of contexts. It encourages the critical appraisal of various literary forms, develops expository competence, prepares students for College and University English courses and encourages the use of language for personal expression and communication. This course has a mandatory provincial exam worth 40% of the final mark.

First Peoples English 12

English 12 or First Peoples (EFP12), provides opportunities for all students to engage with the experiences, values, beliefs, and lived realities of the world's First Peoples. This course is not just for Aboriginal students, but for all students.

Through the study and comparison of the literature, arts and cultures of Canada's First Nations as well as indigenous peoples from other parts of the world, all students can gain insight into the diverse factors that shape identity. The course presents a new, exciting, and authentic exploration of the important and distinctive genres of First Peoples' expression such as oratories, creation stories, contemporary stories, trickster/transformer stories, poetry, masks, songs, dances, art, crafts, etc.

This course may be taken instead of, or in addition to, English 12 & like English 12 it has a provincial exam worth 40% of the overall mark.

SOCIAL STUDIES

Social Studies 10

The focus of grade ten social studies is to look at pre- and post-Confederation changes in Canada and the relationship of Canada to the rest of the world during the 19th Century. Topics include the geography of Canada, immigration and settlement, Confederation, the impact of change on First Nations peoples, the Métis, social and technological changes, Canada's relationship with the United States, and Canada and the global community. Throughout the term, students will also be looking at current events that are of local and global concern.

Social Studies 11

Social Studies 11, a required course for graduation, marks the culmination of students' social studies education. Building upon the foundation of knowledge, skills, and attitudes students have gained in social studies from Kindergarten to Grade 10, it offers students an integrated approach to Canadian and global issues. Social Studies 11 is also a foundation course for further study in the humanities and social sciences. With its focus on

historical and contemporary social, cultural, political, economic, and environmental issues, Social Studies 11 contributes to the important goal of preparing students for their future lives as Canadian citizens and members of the international community.

The course has three major areas of study: *Canada in the Twentieth Century*, which covers the politics of the world and Canada's changing role in that world; *Government*, which explores the Canadian governmental structure and the electoral process; and *Geography and Global Issues*, which examines both world and national environmental issues and Canada's role in developing effective national and international strategies. This course has a mandatory provincial exam worth 20% of the final mark.

Civic Studies 11

The aim of Civic Studies 11 is to enhance students' abilities and willingness to participate actively and responsibly in civic life. Civic Studies 11 offers opportunities for students to deliberate individually and with others on civic matters - local to global - for the purpose of becoming informed decision makers empowered in civic action. This course offers students opportunities to form reasoned views on issues, and to participate in real-life learning in order to develop civic-mindedness. This course meets the Social Studies 11 requirement. Although Civic Studies 11 is intended to be experiential, like SS 11, it has a provincial exam worth 40% of the final grade.

B.C. First Nations Studies 12

This course investigates the diversity of B.C.'s Aboriginal Peoples. We examine the languages, cultures, and histories of several distinct First Nations in our province. This course meets the graduation requirements for a senior social studies course. It may be taken in place of Social Studies 11. This course has a mandatory provincial exam worth 20% of the final mark.

Geography 12

In this course students will examine the theories of internal and external processes of the Earth. Attention will be paid to elements that create and destroy the Earth, including plate tectonics, earthquakes, volcanoes, wind, water, and glacial activity. This course includes weather and climate. As well, students will explore the impact of human activity on our planet, including

resource extraction and development. The material will be presented in classroom lectures, activities, labs, projects and field studies. As the course combines material from two similar disciplines, students will be able to qualify for either a senior Science or Humanities 12 credit.

History 12

Often dubbed the most interesting of the grade 12 academic courses, this fascinating study of twentieth century world history focuses on the social, political, and economic changes of the past 100 years. Students will research such interesting topics as the Russian Revolution, World War II and the Cold War. Heroes and Villains of the twentieth century, like JFK, Gandhi, Hitler, and Stalin will also be examined.

Law 12

This course will provide an opportunity for understanding the complex legal world that affects every part of our lives. Students will be introduced to the origins of the Canadian legal system and the Charter of Rights and Freedoms, and they will explore both Criminal Law and Civil Law. Emphasis will be placed on employer-employee relations, landlord and tenant issues, contracts, marriage and divorce, impaired driving and drug-related offenses, and the Youth Criminal Justice Act. Students will participate in a Mock Trial, a tour of the Vancouver Provincial and Supreme Courts, and presentations on a variety of legal issues.

MATHEMATICS

Everything in life has a foundation in math. Have you every looked at the symmetry of a flower, a spider web or architecture around you? It is all math... The main streams covered each year are: Uncertainty, Spatial Sense, Relations, Patterns, Change and Number Sense

Mathematics 7, 8 and 9

These courses identify the learning outcomes considered vital to the development of numeracy (these learning outcomes are essential for all students to learn and provide a guide for teachers when students are having difficulty) and prepare students for any of the pathways in grades 10 to 12. After successful completion of Mathematics 8 and 9, students choose from two provincially developed mathematics pathways for grade 10.

Mathematics 10 Courses

Students going into grade 10 have two choices: **Apprenticeship and Workplace Mathematics 10** or **Foundations of Mathematics and Pre-calculus 10**.

Apprenticeship and Workplace Mathematics 10

Apprenticeship and Workplace math courses are meant for students who are interested in everyday math. We tend to look at measurement, geometry, personal finance, algebra and trigonometry. This course has a mandatory provincial exam worth 20% of the final mark. On completion, students may select Apprenticeship and Workplace Math 11.

Foundations of Mathematics and Pre Calculus 10

Students looking to further their knowledge of pure mathematics will excel at Foundations and Pre-calculus courses. We will look at measurement, Algebra & Numbers and Relations & Functions. This course has a mandatory provincial exam worth 20% of the final mark. On completion, students may select Foundations of Mathematics 11, Pre-Calculus 11 or Apprenticeship and Workplace Math 11.

Mathematics 11 Courses

Students entering grade 11 have three choices: Apprenticeship and Workplace Math 11, Foundations of Math 11, or Pre-Calculus 11.

Apprenticeship and Workplace Mathematics 11:

This course 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 measurement and area in using the metric and imperial system, solving right triangles, slope of a line, interpreting graphs, volume and surface area, problem solving, personal budgets and financial planning, simple and compound interest.

Foundations of Mathematics 11: This course 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 geometry and proofs, scale, volume and surface area of 2-D and 3-D objects, financial mathematics including statistics, normal distribution and probability, measurement, relations and functions, solving linear equations in two variables, quadratic functions, and problem solving.

Pre-calculus 11: This course 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 absolute value, solving rational and radical equations, relations and functions, solving polynomial expressions, trigonometry including (sine, cosine, and tangent), angles in standard position, law of sines and cosines, statistics including permutations and combinations, binomial theorem, sequences and series, problem solving

Math 12 Courses

Foundations of Math 12: This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in the arts or the humanities. Topics include financial mathematics, logic with numbers, set theory, probability, combinatorics,

relations and functions. Prerequisite: Foundations of Math 11 or Pre-calculus 11.

Pre-Calculus 12: The course is intended to provide students with the mathematical underpinnings and critical thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus, like sciences or engineering. Topics include trigonometry, relations and functions (exponential & logarithmic, polynomial, radical, rational, and transformations), and combinatorics. Prerequisite: Pre-calculus 11.

Calculus 12: Introduction to fundamentals of calculus, limits, differentials, related rates, integrals, curve sketching, area, etc. An exciting course for those going to post secondary or for interest.

SCIENCE

These classes are developed and designed to help our students become life long scientists. We are developing safe lab skills and scientific literacy. The main streams covered in each year:

Grade 7: Ecosystems, Chemistry and Earth's crust

Grade 8: Cells, Fluids, Water and Optics

Grade 9: Reproduction, Chemistry, Electricity and Space

Grade 10: Ecosystems, Chemistry, Motion and Energy Transfer

Science 10

This builds safe laboratory skills and scientific literacy while exploring a variety of topics in Life Science, Chemistry, Physics and Earth Science. Specific topics include sustainability of ecosystems; chemical reactions; radioactivity; motion, velocity and acceleration; energy transfer in natural systems; and plate tectonics. There is a provincial exam in this course worth 20% of the final mark.

Biology 11 & 12

The study of biology provides opportunities for the development of individuals' abilities to reason logically and independently and also deals with a wide variety of human concerns. Secondary biology helps students to understand their surroundings and themselves and the technological society

in which they live. Senior biology provides the basis for further academic work and career training for those students who wish to pursue their interests in biological science and related fields after leaving high school and provides an understanding of human biology for those not intending to further their studies after Grade 12.

Chemistry 11 & 12

Chemistry deals with the properties and reactions of materials. It is concerned with the identification, characterization, and transformation of matter and with the energy changes accompanying these transformations. A core of fundamental chemical knowledge is central to an understanding of other science disciplines and applied sciences, which students may wish to study or in which they may want to pursue careers. Through this chemistry program all students will realize the opportunities that exist for careers and technology in Canada, and will be encouraged to consider such careers.

Earth Science 11

This course provides students with a broad introduction to the processes influencing the Earth. Topics include forces that attack the surface (water, wind, glaciers), plate tectonics (earthquakes, volcanoes), rocks and minerals, using topographic maps, the Earth in the Universe, atmospheric science (storms and climate), and geologic time. Earth Science 11 is an excellent introduction to *Geology & Geography 12*.

Geology 12

In this course students will examine the theories of Solar System formation and both the internal and external processes of the Earth. Attention will be paid to elements that create and destroy the Earth, including plate tectonics, earthquakes, volcanoes, wind, water, and glacial activity. Students will also have a chance to study the wide variety of rocks and minerals that these processes create. As well, students will explore the impact of human activity on our planet, including resource extraction and development. The material will be presented in classroom lectures, activities, labs, projects and field studies. As the course combines material from two similar disciplines, students will be able to qualify for a senior Science credit.

Physics 11

Physics is an insightful analysis of the scientific theories and concepts behind many of the wonders of the universe. Imagine being able to discover the individual characteristics of the velocity, distance and forces in a theoretical train collision. You will also take part in discussions about the concepts Galileo, Newton and Einstein grappled with, through the history of scientific inquiry, as a first step towards an understanding and use of the most outstanding equations found in physics.

Physics 12

Includes the study of vector kinematics, dynamics and momentum, circular motion and gravitation, electrostatics, circuitry and electromagnetism. You have already had an introduction to these in Science 10 and Physics 11. You will build on what you have learned. Check to see if you need this course to enter into post-secondary program before selecting Physics 12 as a credit course. Recommended: C+ in both Math 11 and Physics 11.

COASTAL ECOLOGICAL STEWARDSHIP 11

Are you a mountain biker, hiker or water-sport enthusiast? Is outdoor recreation important to you? Do you enjoy the forest trails you ride and walk on that trace the topography of the land? Do you like to paddle the fresh/salt-water locales of the Sunshine Coast? Have you wondered how climate change, global warming and sea level rise may affect a waterfront community in the near future? Ecological changes could alter the beauty of the area that you have grown up in and change what you have become accustomed to. This course involves scientific field studies into the unique ecological zones of the Sunshine Coast in a way that looks at how to preserve our natural ecosystem into the future.

Science and Technology 11

To prepare students for further education and for their adult lives, the Science and Technology 11 curriculum engages students in the investigation of scientific questions and the development of plausible solutions. Science education develops and builds on students' sense of wonder about the world around them and encourages a feeling of responsibility to sustain it. This course addresses a wide range of topics from Agriculture to Space Exploration

MODERN LANGUAGES

Choosing a second language as an elective is both academically and personally advantageous. Academically, an approved second language to the grade 11 level is required for direct entry to some universities. French 12 is recommended for students planning to pursue a degree in Arts, or a career in tourism, journalism, broadcasting, and advertising or as a federal employee.

Personally, learning a second language will enrich your experience when traveling, open your mind to new cultures and literature, enable you to communicate with a greater comprehension of your mother tongue and other languages and enhance your understanding of historical and contemporary issues.

Keep the door to a university education and personal development open by including a second language in your course selection for next year.

French 10

Emphasis is on guided conversations. Themes include movies, geography, city and travel. Grammar includes basic tenses.

French 11

Emphasis is on spontaneous conversations. Themes include restaurants, childhood, driving, advertising, and stress. Grammar includes all major tenses.

French 12

Emphasis is on immersion and experiencing creative works. Themes include animals, work, successes, current events, and art.

PHYSICAL EDUCATION

The aim of Physical Education is to enable all students to enhance their quality of life through active living, which is the integration of physical activity into daily routines and leisure pursuits. Physical Education provides opportunities for all students to be physically active, to develop an appreciation for and enjoyment of movement and to acquire the knowledge, skills and attitudes which enable them to enhance their quality of life through active living. Physical Education at Pender is taught as a series of units that include alternate environmental activities, dance, games, gymnastics and individual and dual activities. The units chosen each year may vary depending on the availability of resources, equipment and the expertise of the teaching staff.

Please Note: PE 10 is a required course for graduation.

Physical Education 11/12

This is a physical activity course that focuses on lifetime sports, physical fitness and outdoor education.

Outdoor Recreation 10/11/12

Students will develop skills and knowledge through experiencing a variety of outdoor pursuits. This program will focus on exploring local options through the interests of the students. Golf, tennis, aquafit, mountain biking, hiking are options; students collaborate with their teacher to explore options.

Leadership 10, 11, 12

There are three realms to the Leadership class: self-leadership, leadership in the school and leadership in the community. This is an opportunity to help make things happen in your world and to get credit for it, to gain skills that will help you make better decisions and to get more out of your day-to-day lives. Since Leadership is outside of the timetable, you have the chance to still be involved in extra curricular activities with on going communication with the teacher. It is a lot of fun and it pays to make a difference.

APPLIED SKILLS

Foods and Nutrition 10 - no pre-requisite

If you are interested in cooking, this course is for you. After completing theory and lab work students will increase their knowledge about safety in food preparation, role of ingredients, food preparation techniques, nutrition, social and economical influences on meals and the importance of eating local ingredients. Labs are a variety of soups, pretzels, pizza, apple/fruit pie, red pepper hummus, Butter Chicken with rice, pasta meals and a variety of wrapped meals. A hands-on course that requires good attendance to be successful.

Foods and Nutrition 11/12 - no pre-requisite

A hands-on course that includes theory work and labs to enable students to begin or continue to explore many areas involved in food preparation. Students will begin to plan for cooking on their own or learning skills for employment in the food industry. Studies will include terms and techniques, equipment, methods and ingredients used in preparing meals. Festive and seasonal desserts, soups, protein meals, and staples will be prepared. Students will learn issues related to global food issues and areas of careers in the food industry. BC Certification in Food Safe Level I will also be offered.

FINE ARTS MUSIC COURSES

Concert Band 8-12

Concert Band is offered to students in grades 9-12 who already play a brass, woodwind, or percussion instrument. This is an advanced band class for students who already have well-developed skills on their instrument. The band works on a wide range of musical styles, from rock to classical! Music literacy and comprehension are learned through music performance.

Students who participate in Concert Band perform several times a year in concerts at the school as well as in the community. The band performs in the Sunshine Coast Festival of the Performing Arts every year and tours the Elementary Schools in the District on an annual basis.

ART COURSES

Art 10

The major objective of the Art program is to introduce the student to art experiences, which will stimulate and extend their visual curiosity, develop their appreciation of their own art and the art of others, and to develop their potential to respond critically to visual and aesthetic phenomena. The course also seeks to enable the students to gain expertise in art processes and skills and to prepare them for further art courses should they decide to continue their studies in this area.

Art 11 and 12

This course offers opportunities to explore visual relationships and personal images using a variety of art mediums, including painting, photography, ceramics, drawing and video. This will enhance their ability to create authentic personal imagery, which is the result of reflecting on personal experience which attempt to embody that experience in the materials of art. The students will be encouraged to take part in curriculum decisions based on their individual directions of study.

This course also offers to opportunity for students to work one on one with the teacher to create an application portfolio for post-secondary Art School.

Drama 10

The goal of Drama 10 is to develop dramatic skills ad self-awareness. We work to develop the student's self-esteem and confidence through collaborative dramatic activities. Participation, effort, attitude and willingness to take theatrical risks are of the utmost importance.

Peer Tutoring 10/11/12

Senior students provide assistance to junior students in the classroom or individually. Instructor permission required. Students will receive some training and there is a small paperwork component.

Yearbook 10, 11, 12

In this course, students learn a variety of skills while engaged in an interesting "hands-on" project: producing the school's yearbook. Emphasis will be placed on the following areas: computer page layout, typography, computer graphics, journalism, photography, publishing and marketing. Classroom activity will be closely related to the "real world" challenge of meeting deadlines, producing a viable product, and marketing that product. This course will run as a linear course outside of the timetable.

METAL FABRICATION & MACHINING 10-12

A senior project based course promoting student-designed projects. Students will fine-tune their hand tool, welding, forging and machining skills to create projects. Medieval armour sheet-metal techniques, blacksmithing, jewelry making, mig-welding, arc welding, metal lathing and milling machine work will be utilized in project creation.

CARPENTRY/JOINERY 10-12

A senior project based course promoting student-designed projects. A Red Seal carpenter will teach students carpentry/joinery skills. If you can imagine it and put it on paper we can build it! Cabinets, curved wood projects, laminations, glue-ups, CNC machining, traditional bowl turning and power carving are just some of the skills we will employ in the course. This is a great way to be introduced to the real world techniques utilized in the woodworking trade, which is the largest employer of tradespeople in our province.

MECHANICS 10-12

This course introduces students to the mechanical systems of automobiles with specific attention to the components of the Chevrolet V8 internal combustion engine. Students will learn assembly procedures including torque specs, gasket sealing, degreasing a cam, valve spring testing, how to cc cylinder heads, calculating compression ratios, etc. Forced induction such as turbo chargers, superchargers and nitrous will be discussed as well as how to combine the correct parts to build serious horsepower. Environmental carb tuning and modern racing catalytic converters will be discussed along with the next trend in racing; electric engines and their incredible torque potential.

DISTRICT LEVEL PROGRAMS

Various options are offered to students throughout the district based on interest each year. These courses are offered at a variety of locations on the Sunshine Coast. Please talk to the counselor or Principal for more information.

ACE-IT Career Programs

(ACCELERATED CREDIT ENROLLMENT IN INDUSTRY TRAINING)

The **ACE IT Auto Service Technician Program** is offered in partnership between the Sunshine Coast School District and Vancouver Island University (VIU). The program provides a unique opportunity to work under a certified mechanic while gaining course credit towards graduation. Instructors from VIU oversee the program and give credit for work completed so that when students complete the program, they have also gained their "Automotive Service Technician Level 1" as recognized by the Industry Trades Authority (ITA). Students gain 24 credits for graduation: Auto Service Technician Level I 12 - AST 12 A, B, C, D and Work Experience 12 A, B. The program is a full year running from Sept. to June. Students attend Monday to Thursday at Chatelech Secondary School.

The **ACE IT Carpentry Program** is offered in partnership between the Sunshine Coast School District and Vancouver Island University (VIU). The program provides a unique opportunity to work under a red-seal carpenter while gaining course credit towards graduation. Instructors from VIU oversee the program and give credit for work completed so that when students complete the program, they have also gained their Carpentry Level 1, which is recognized by the Industry Trades Authority (ITA). Students gain course credit for Carpentry 12A, B, C and Work Experience 12A. This program takes place second semester, starting in February, and is completed the third week of July. Students attend Monday to Thursday and work at the Wilson Creek Habitat for Humanity site.

The **ACE IT Cook Training Program** is offered in partnership between the Sunshine Coast School District and Vancouver Island University (VIU). The program provides a unique opportunity to work under a red-seal chef while

gaining course credit towards graduation. Instructors from VIU oversee the program and give credit for work completed so that when students complete the program, they have also gained their Cook Training Level 1, which is recognized by the Industry Trades Authority (ITA). Students gain course credit for Cooks Training 12 A, B, C plus Work Experience 12A. This program takes place in second semester from February to June, from Monday to Friday, and is located at Elphinstone Secondary School.

Secondary School Apprenticeship - Earn while you learn!

Secondary School Apprenticeship (SSA) is an educational program jointly supported by the Ministry of Education and the Industry Training Authority (ITA). Through participation in the SSA program, students earn up to 16 credits towards graduation and begin earning work-based training hours. Typically industry-training programs consist of 80% work-based training under the guidance of a certified tradesperson or equivalent and 20% technical training. Course credit includes: SSA11A, B and SSA12A, B. Please see your counselor for more info.

Work Experience

This course is designed to provide students with the opportunity to gain valuable work experience in conjunction with their in-school education. This program will enable students to:

- Explore career choices
- Gain confidence and self-reliance
- Develop awareness of personal qualities essential for success in the workplace
- Obtain references and contacts that will assist in securing future jobs