

# DISTRICT SECONDARY SCHOOLS

## Programs of Choice, Advanced Placement (AP) & Other Specialty Courses

### 2015-2016

Concurrent Studies [SFU](#) & [Douglas College](#) - Available at All Schools

## SOUTH ZONE

### Dr. Charles Best

*(French Immersion)*

AP Chemistry  
AP Physics  
AP French Exam  
AP Psychology Exam  
Independent Directed Studies  
Science Co-op (Scimatics)

Chemistry 12 and Physics 12 students have the opportunity to enroll in AP Chemistry and AP Physics in semester two. Français 12 students are automatically signed up for the French AP exam as their French language skills are at a very high level through the Immersion Program. Furthermore, students who have excelled in Psychology 12, have scored high on the AP exams and are encouraged to write it. In addition, students who are mastering a course through their own efforts or through outside tutors have the opportunity to sign up and write AP Exams. This has been done in [Calculus](#) and [English Literature](#) in the past. Through teacher recommendation, students can sign up to for independent directed study in the elective areas; for instance, Graphics, Drawing & Painting, Photography, Information Technology and Carpentry and Joinery have been popular. "Scimatics will combine Math 11 Pre-Calculus, Chemistry 11, and Physics 11 with a field experience component to be completed in the first semester. Candidates should be independent, self-motivated learners who are looking for a possible career in the math/sciences area." Interested students can see their counselor for further information and the registration process.

### Centennial

Advanced Placement (AP)/Honours

AP Biology 12  
AP Chemistry 12  
AP Calculus  
AP World History  
AP Psychology  
Independent Directed Studies (IDS)

**IDS:** Student wishing to do a **self-directed study** and write the AP exam in May is encouraged to do so. Every year we have a number of students selecting this option. The AP Coordinator is able to track down resources for students and guide them to a teacher who can help out in that particular subject area. As an example, we had students write exams in the following subject areas last year on a self-directed basis:

**Calculus AB, Calculus BC, Physics B, Chinese, European History, World History, Japanese 12AP.**

In addition, we also allowed a few students from other (non-AP) schools to register and write their AP exams at Centennial.

Our school does **allow concurrent studies**; students would be registering for the winter/spring semester. Centennial has had students do concurrent studies at Douglas College and also at SFU. With counsellor approval, Centennial students can register for any Douglas College first year university-transfer course where space permits. SFU has a similar process.

**Pre-AP Science Program** - Grade 9 students have the ability to accelerate, thereby providing additional opportunities for the Advanced Placement science courses in grades 11 and 12. Grade 9 students in the pre-AP program work both independently and with a science teacher on Science 9 online in semester one; students then take Science 10 Honours in semester two. Students who choose this program need a computer and internet access. In grade 10, students would take one or more grade 11 level science courses followed by grade 12 level courses in grade 11. In their grade 12 year, students would be eligible to choose from a variety of AP seminar science courses.

**Math 9/10 Accelerated Program** – The program is for grade 9 students who have demonstrated the ability and desire to participate in an accelerated program of studies in mathematics. Qualifying applicants are enrolled in Math 10 Foundations & Pre-Calculus (Honours) upon the successful completion and outcome on a challenge exam. These students will then be eligible to complete Math

11 (Pre-Calculus OR Foundations) in grade 10; Math 12 (Pre-Calculus OR Foundations) in grade 11; Calculus 12 in semester one of grade 12 and **Calculus AP** or selected concurrent studies Math courses through SFU or Douglas College during semester two of grade 12.

## Pinetree

## Honors & Advanced Placement

### **AP Approved Courses**

**AP English Language 12** (Gr. 11 Year)

**AP English Literature 12** (Gr. 12 Year)

**AP Biology 12**

**AP Chemistry 12**

**AP Physics 12**

### **Independent Directed Studies (IDS) Courses**

**Math**

**Science**

**Japanese**

All courses are face to face and approved by the College Board (See AP College Board Ledger <https://apcourseaudit.epiconline.org/ledger/>). Some courses have up to 60 students enrolled (i.e. Bio 12AP and Chem 12AP). As for the IDS, it is truly independent study on a topic that interests them (Based upon the extended essay in IB). Students choose a topic that suits their interests and then work with faculty to develop those interests. Even though Pinetree does not offer a specific AP Calculus class our Honours program and specifically Calculus 12H prepares students to write either the AP Calculus AB or BC exam. New for 2011/2012 will be the addition of honours classes for Art 9, 11 and 12. These courses will focus on developing the student's portfolio and exploring post secondary educational opportunities in the visual arts in Canada. This is complimented by our Language department an IDS course that prepares students for the Japanese AP Exam.

### **Honors Courses**

**Art:** Art 9H, Art 11H and Art 12H

**English:** Humanities 9; English 10;

**Mathematics:** Math 9H, Math 10 (Fall)/11 (Spring) and Math 12 (Fall); Calculus 12 (Spring); Independent Directed Studies (Grade 12 Year)

**Social Studies:** Humanities 9, Socials 10, Socials 11, History 12

**Science:** Science 9, 10; Bio 11H; Ch 11H; Ph 11H;

*In addition, students may write AP exams in Economics (Macro and Micro) and Psychology*

## **NORTH ZONE**

## Gleneagle

## Advanced Placement (AP)/Honours

**AP Calculus AB** (within timetable semester 1)

**AP European History** (Wednesdays after school Sept. to May)

**AP Psychology** (Tuesdays and Thursdays after school Sept. to May)

A number of Gleneagle students may write AP exams with us based upon their own studies or those with a private 'tutorial' service (e.g. Biology, Chemistry, American History, etc.)

### **Honours Courses**

**English** • English 9 and 10

**Mathematics** • Mathematics 9 and 10 •

**Social Studies** • Social Studies 9, 10 and 11 • Economics 12 (**AP Prep**) • European History 12 (**AP Prep**)

**Science** • Science 9 and 10

**Social Sciences** • Psychology 12 (**AP Prep**)

**Info Tech & Media Arts** • Digital Media Development 9:

**TALONS** – The Academy of Learning for Outstanding, Notable Students – District Secondary gifted program

**COAST** - **Coquitlam Outdoor Academic School Term-** outdoor education for selected Gleneagle Grade 10 students

**JumpstART9** - see Specialty Courses below

## Heritage Woods

### AP Calculus 12 Independent Directed Studies (IDS)

#### Honours Courses:

**English** • English 9, 10, 11 and 12

**Mathematics** • Mathematics 10 and 11, and Pre-Calculus 12 (prerequisite for **Calculus 12 AP**).

**Math 9 accelerated:** After passing a grade 9 challenge exam, students will be enrolled in, and gain credit for, Math 10. This will allow students to be one year ahead in their math classes, opening up more options, including Calculus AP in their grade 12 year.

**Social Studies 9, 10 & 11 – Cultural Exchange** • network/laptop based courses. This version of Social Studies is for students who wish to broaden their perspectives and one day hope to travel. In addition to the Prescribed Learning Outcomes, students in this course will use various technologies to communicate and work with students overseas.

**Independent Directed Studies (IDS)** – There are two specific IDS courses in Philanthropy and Environment. Additionally, students can extend the learning outcomes of any course in the school by attaining the approval of a teacher to work directly with the student. This allows for a highly customized high school education that emphasizes individual passions and areas of interest.

**Science Co-op 11** – - see Specialty Courses below.

**Hollywood 9** • - see Specialty Courses below

## Port Moody      International Baccalaureate District Program Grade 9 – 12

The International Baccalaureate (IB) Diploma Programme is a challenging two-year pre-university curriculum, primarily aimed at students aged 16 to 19. It leads to a qualification that is widely recognized by the world's leading universities. It is a programme that challenges students to excel in their studies and in their personal growth. The aim of all IB programmes is to develop internationally minded people who, recognizing their common humanity and shared guardianship of the planet to help to create a better and more peaceful world. An IB education is characterized as one that centres on learners, develops effective approaches to teaching and learning, works within global contexts and explores significant content.

The IB Diploma has been offered as an integral part of the broad educational program at Port Moody Secondary since 1986. A high degree of flexibility is built into the program to ensure that students have the opportunity to individually make choices and selections that provide maximum personal benefits.

The IB Program has been adopted as a district program of choice to ensure that all highly motivated and talented secondary students in School District #43 have equal access to the opportunities provided through this internationally renowned program. It is a district-wide program of choice offering a coordinated curriculum from grade 9 through grade 12 for talented and highly-motivated students. IB includes appropriately challenging experiences in an environment of positive stimulation that comes from working within class groupings of similarly motivated and talented students.

For more information please see: [www.ibo.org](http://www.ibo.org) or [www.pmssblues.net](http://www.pmssblues.net)

## Coquitlam Open Learning (COL) - COL Course List

### 1. Online Immersion

- Ideal for high school students who are competing or performing at a very high level or need a lot of flexibility with their course schedule and pace of learning.
- Twice weekly face-to-face support available at [Millside Centre](#).

### 2. Flexible Paced Courses

- Students can cross enroll in COL courses while enrolled in their local high school.
- Each secondary school has a COL liaison teacher to support students at their local school.
- Students take online courses for many reasons including; to accelerate, to upgrade a course mark, to take an additional course, or to work at a more flexible pace.

**The Inquiry Hub Secondary School** is a smaller, personalized high school located at Millside Centre. The Inquiry Hub offers grade 9-12 students an innovative, technology driven, full-time program which allows students to pursue their own learning questions by shaping students' educational experience around their interests and cross curricular studies.

This is an ideal setting for self-directed students, and students who want to focus their learning around academic interests that they are passionate about. Students are encouraged to take on projects that make a difference, and apply their learning in practical and meaningful ways. Students leave with all the credits needed for a BC High School Diploma, and have the opportunity to create a comprehensive portfolio based on projects they have pursued. Universities are already showing an interest in portfolios and applied learning, and this will increase dramatically in the next few years.

# EAST ZONE

## Riverside

### **1:1 RIVERSIDE PREPARES STUDENTS FOR THE 21ST CENTURY**

For years, Riverside has been working on ways to integrate technology into teaching and learning practices. We are committed to developing the infrastructure and staff capacity that would enable students to come into the school with their own tablet or laptop and use it daily in the classroom. Our focus with technology is on creating citizens who are able to effectively collaborate, create, problem solve, research, and understand media in both a digital and analog world. Next school year, we will continue with this 1:1 digital environment for grades 9, 10, and 11 in which each student brings a device to school. Parents are encouraged to learn about how the technology has been integrated into our classrooms by visiting our school's web-site [riverside@sd43.bc.ca](mailto:riverside@sd43.bc.ca) and the principal's blog: The link is: <http://aciolfitto.wordpress.com/>

### **French Immersion**

**AP Chemistry** (semester 2)

**AP Physics 12**

**Independent Directed Studies (IDS)**

**French DELF Exam**

### **Honors Courses**

**Mathematics** • Mathematics 9, 10, 11 and 12

**Science** • Science 9, 10

**English** • English 9, 10, 11 and 12

**Socials** • 9 and 10

### **Leadership:**

Multicultural Leadership 10, 11 and 12

IDS Leadership 10, 11 and 12

Athletic Leadership 10, 11 and 12

Action Locales 10 (French Immersion Leadership)

**Hockey Academy 10, 11 and 12** - see Specialty Courses below

**High Performance Sports Academy 10, 11 and 12- TWIST** - see Specialty Courses below

**Science Co-op 11** - see Specialty Courses below

**Computer Networking 11 and 12** - see Specialty Courses below

**Culinary Arts Apprenticeship Program** - see Specialty Courses below

## Terry Fox

**AP English Literature/English 12 Honors Full year dual credit**

**AP Psychology 12**

**AP Chemistry 11 and 12 (11, 12 and seminar)**

**AP Calculus 12**

**Independent Directed Studies (IDS)**

**French DELF Exam**

### **First year University Concurrent Studies**

Terry Fox Secondary allows and encourages concurrent studies; students would be registering for the winter/spring semester for courses at Douglas College and SFU for first year University-transfer credits where space permits.

### **Pre-AP Honours Program**

Terry Fox offers students a wide selection of Honours and academic extension courses for students hoping to pursue AP level courses in their senior years. These include:

**Mathematics** • Math 9, and 10

**Sciences** • Science 10

**English** • English 9, 10, 11 and 12

**Social Studies** • Social Studies 9, 10, and 11

**French** • French 10, 11, 12 **DELF Exams** (see Specialty Courses below)

**Science Career CO-OP** - see Specialty Courses below

**Sport Science 11** - see Specialty Courses below

**Chess 11 & 12- Math based elective** - see Specialty Courses below

**Athletic Leadership** - see Specialty Courses below

**Football 11 and 12; Basketball 11 and 12** - see Specialty Courses below

**Sports Medicine 11** - see Specialty Courses below

**Astronomy 11** - see Specialty Courses below

## **Specialty Courses and Programs of Choice in our District Open to All Students**

**The following programs are offered on a limited enrolment basis in one or more secondary schools in our district.** Students who have an interest in enrolling in any of these "Programs of Choice" should contact their home school counsellor for further information.

### **[Emily Carr](#) – Headstart Concurrent Studies Course Based at Gleneagle [Apprenticeship Programs](#) – Different Secondary Schools**

#### **Advanced Placement (AP)/Honours**

##### **[Pinetree](#), [Centennial](#)**

These Advance Placement schools offer coordinated program of enrichment for Grades 9-12. Students will be selected for honours classes in core areas, after an application process. In the senior years, students will be prepared to enter AP (Advanced Placement) classes. These courses allow students to work together in challenging environments that will gradually acclimatize them to the rigors of university classes. This program is designed for students who are interested in attending university. The course of study allows students to work together in a rigorous and exciting learning environment.

#### **Aerobics 12**

##### ***Terry Fox***

This course emphasizes the increase of cardiovascular and muscle fitness. Students will engage in challenging fitness classes. Students enrolled in this course have the option to be certified in the CFES (Canadian Fitness Education Services) Aerobics instructor course. Those students who choose to be certified will learn about instructor teaching skills, program planning, and the components of an aerobics class and safety considerations

#### **Astronomy 11**

##### ***Terry Fox***

Astronomy is a branch of physics. About 10% of the course has a math component in which we solve three variable equations, unit conversions, metric system and trigonometry problems. About 90% of the course involves studying the characteristics of a large number of celestial objects, methods of space travel, stellar motion, biographies of astronomers and the history of the NASA space program. There is no final exam in this course. This course does not provide a Science 11 credit towards graduation but does count as an elective.

#### **Athletic Leadership Program**

##### ***Terry Fox***

This course is for the sports enthusiast who would like to learn more about various aspects of leadership in a sporting environment. Some topics covered in the course are: Team Management, Basic Sport Med., Leading Intramural Activities, Building Leadership Capacity, Organization, Sports Nutrition and Event Planning. A practical component of the course will be included. This is a program designed to support student leadership skills through sport management.

#### **Automotive Service Technician ACE-IT Apprenticeship *Centennial***

This post-secondary program is part of the Industry Training Authority ACE-IT initiative, and is open to Grade 12 students intending to pursue careers as Red Seal certified Automotive Technicians. Students completing this full semester, dual credit, four course program will receive 16 credits toward graduation and will write the Standardized Level 1 assessment exam. A 70% grade on this exam will qualify the student to progress to Level 2 training when requirements for Apprenticeship training hours are met. Work-based training will be an integral part of this program, and must be completed by September 30 of the graduation year. This program is designed for motivated students with a career focus and will provide excellent Apprenticeship placement advantages for successful students. Enrollment in this program will

be limited to 18 students per year, and admission will be by application. The application process will include an interview and a review of attendance records and will require a recommendation from the student's Automotive Technology 12 instructor. Applicants will need to have been programmed in such a way as to have completed foundation requirements by the end of the Fall semester of their Grade 12 year.

Foundation: Auto Tech 11 and 12 (C+), English 12 or Communications 12, Math 11 Essentials (B) or Math 11 Principles, "L" drivers' license, working knowledge of computers.

### **Basketball Fitness Boys/Girls 11/12**

#### ***Terry Fox***

This course is designed for athletes who wish to develop sport specific fitness and skills. Students will focus on a wide variety of advanced conditioning programs such as plyometrics, interval training, running, and weight training as they relate to basketball. Specific physical components of the course will include speed, agility, weight training and quickness. Special emphasis will be placed on developing individual skill development programs that best meet the student's needs. This course is open to grade 10, 11 and 12 student athletes and will be offered on a linear schedule from 6:45am to 7:30am.

### **Biology 12 AP Seminar**

#### ***Centennial***

This Semester 2 course deals with topics in greater detail than in Biology 11 and 12. It has an extensive laboratory component which includes DNA isolation, fingerprinting and transformation experiments. Course content includes: Molecules and Cells – basic biological chemistry, cells, energy transformations (25%); Heredity and Evolution – molecular genetics, heredity, evolution (25%); Organisms and Populations - taxonomy, survey of protista, monera and fungi, plants, animals and ecology (50%). This course will aid the student in scholarship competitions and in obtaining advanced standing or credits at some universities. Foundation courses: Biology 11, Chemistry 11 and Biology 12. Biology 12 should be taken in Semester 1.

### **Carpentry ACE-IT Apprenticeship**

#### ***Terry Fox***

Students will take 4 courses in Semester 2 at Terry Fox then go to Kwantlen Polytechnic University from the middle of June. Foundation courses: C in Math 11 Essentials and physical ability for the job.

### **Chemistry 12 AP Seminar**

#### ***Riverside, Centennial, Terry Fox***

This course covers material equivalent to first year university chemistry. It is an excellent preview of university chemistry and will give students an advantage in post-secondary science programs.

Foundation course: Chemistry 11 with an "A" or "B." Chemistry 12 should be taken in Semester 1.

### **[COAST - Coquitlam Outdoor Academic School Term](#) - Grade 10 students**

#### **[Gleneagle](#)**

**COAST** is about personal development as much as it is about academic development. From the mountains to the sea, students are challenged to extend their learning outside the classroom. By combining academic work with field studies, leadership training, and outdoor education, we aim develop enriched connections and broad understandings to the world around us. The curriculum supports the development of independent, inquiring, life-long learners with a focus on community service. Students can look forward to a semester of building enhanced self-confidence, stronger physical fitness, and a sense of accomplishment within a supportive learning environment.

### **Chess 11& 12**

#### ***Terry Fox***

Students will develop their analytical and critical thinking skills, and grow in their knowledge of all aspects of the Chess game. Visualization and pattern recognition will be introduced and nurtured. Opening and endgame theory will be examined, as well as students' ability to analyze their own and others' games. This course is designed to act as a bridge from a novice player to an intermediate player. By the time the student completes the course, he/she will be able to compete in almost any chess tournament around the world, as well as play casually for leisure.

## **Computer Networking 11 and 12**

### ***Riverside***

This career program connects students in Information Technology Management with a challenging career in the computer networking field. Students are linked with both business and post secondary opportunities.

## **Concurrent Studies (Douglas College and SFU)**

Accepted students will be able to take several university level courses while still enrolled in high school. Courses begin in September and January. Students must see their school counsellor for eligibility and registration information.

## **Construction Electrician ACE-IT Apprenticeship**

### ***Best (February to January)***

Students will take 2.5 courses in the second semester of Grade 11 followed by work experience in the summer. Students will take 2.5 courses in the fall of their Grade 12 year to complete the program.

## **Cook Training ACE-IT Apprenticeship**

### ***Centennial, Gleneagle, Riverside***

Topics of study include kitchen layout and maintenance, equipment operation, knife skills, terminology, plate presentation, Food Safe/HACCP, sauces, soups and stocks, and the Pastry Program. Cook Training 12A focuses on elaborate food items such as pates, galantines and secondary sauces as well as the use of more specialized equipment.

## **Coquitlam Teen Parenting Program**

### ***CABE***

This program is designed to enable pregnant and parenting teens to continue with their education in a supportive and flexible environment. Courses are offered in a variety of ways including self-paced, structured classes and other options. Students are able to enrol in courses at CABE or at a district secondary school depending upon program availability. Information and courses on children and parenting skills are an important aspect of the program. The YMCA Little Scholars Childcare infant and toddler program is available on site and allows parents to be actively involved with their child while continuing their education. *Please call: (604) 939- 4511 for additional information.*

## **Culinary Arts Program ACE-IT:**

### **Gleneagle, Riverside**

Here is a unique opportunity for secondary students to earn graduation credits and industry certification in “Culinary - Cook Level 1 Technical Training” - Level One Red Seal Certification credits.

## **Dance (Performance Dance)**

### ***Port Moody, Terry Fox, Heritage Woods***

Students need to be experienced dancers who display dance abilities via an audition. \*Focuses specifically on performance skills.

## **EPIC Program (District)**

The purpose of the EPIC program is to facilitate families and schools working in partnerships to ensure that students who are elite performers in athletics, theatre, music, dance and modeling are able to build educational programs that maximize success both in meeting Graduation Program requirements and achieving their potential in their discipline. Student who compete or perform at a provincial, national or international level, students who are recognized as being in the top 10% in their discipline in the province, or students whose participation in a discipline is required to miss scheduled schooling on a regular basis may be interested in this program. For more information, please contact your child's counselor or visit the district site outlining [EPIC](#) information

## **Experiential Studies 10**

### ***Centennial***

This program will combine Science 10, Earth Science 11, Planning 10, Social Studies 10, and Physical Education 10. All curriculum requirements for these programs will be met. The program aims to extend and enrich a student's understanding of these five courses. The subjects will be taught in a manner that integrates traditional class work, science labs, projects, and field studies. The field experiences will vary from one to three day trips to one larger two-week trip. Field experiences may center on subjects like biology, geography, geology, history, etc. while doing activities such as kayaking, mountain

biking and hiking. Students must attend Centennial for the entire year as there are activities and fundraising done in Semester 1.

### **Forklift, Bobcat & Scissor Lift Training**

#### ***All schools- Counselor approval***

Forklift is a 2 day course; Bobcat and Scissor Lift are 1 day for Industry Certification. Training is in Vancouver.

### **Fish & Wildlife 12 (Fisheries Ecology 12)**

#### ***Centennial***

Students in this program play an important role in protecting and enhancing the local environment. Major projects involve the operation of Mossom Creek Hatchery, water quality of local streams, marine studies of harbour seals and plankton, streamside vegetation identification, small vessel operation and VHF radio certification, and environmental outreach via public fairs and visits to elementary classrooms.

Foundation course: Science 10.

### **Football Fitness 11/12**

#### ***Terry Fox***

This course is designed for athletes who wish to develop sport specific fitness and skills. Students will focus on a wide variety of advanced conditioning programs such as plyometrics, interval training, running, and weight training as they relate to football. Specific physical components of the course will include speed, agility, weight training and quickness. Special emphasis will be placed on developing individual skill development programs that best meet the student's needs. This course is open to grade 10, 11 and 12 student athletes.

### **French DELF Exams**

#### ***Terry Fox, Riverside***

The *Diplome d'études en langue française* (DELF) is an internationally recognized series of qualifications awarded to language learners to validate their skills in French. Through an examination process of their speaking, listening, reading and writing skills, students can be granted diplomas at various levels. The resulting diploma issued by the French Ministry of Education is valid for life and is recognized by many educational and business institutions worldwide. French 10, 11 and 12 students will be offered an opportunity to participate in this international French language assessment program.

### **French Immersion**

#### ***Riverside, Charles Best***

The French Immersion program has several goals that enable students to achieve, reach and become functionally bilingual.

### **Global Perspectives 12**

#### ***Pinetree***

An exciting program designed to provide students with the opportunity to travel to, and participate in, a hands-on-project in a developing country, as well as develop awareness of global issues and career options in various related fields. This year long program is integrated with Career Preparation Work Experience. Students will be encouraged to develop a vision for their futures, including personal goals, career directions and educational opportunities. The targeted audience is current Grade 10 & 11 students.

### **[Hairdressing Program ACE-IT](#)**

#### **[Gleneagle](#)**

This is a 10 month in-school training program for secondary school students to earn graduation credits and industry certification in hairdressing. Students earn 24 graduation credits through Secondary School Apprenticeship if hired as an apprentice. Students establish themselves in a career that allows them opportunities to explore other options related to the hairdressing industry.

Foundation courses: Completion of Grade 11.

## **Hockey Academy**

### **Centennial, Riverside, Terry Fox**

This course provides the opportunity for male and female hockey players to supplement their minor hockey experience and improve their hockey skills. Course content includes the development of technical skills (power skating included), individual tactics, team tactics, team play/systems, strategy, off-ice training specific to hockey and health and wellness. Students will be required to have previous skating experience and preferably some hockey skills.

## **Emily Carr Headstart to Art**

### **Gleneagle**

Emily Carr offers high school students the opportunity to complete 3 university credits plus a portfolio review. Students must be recommended by their high school art teacher.

## **Independent Directed Studies (IDS)**

### ***All Secondary Schools***

IDS courses are intended for students who wish to extend their learning in a particular curricular area of expertise, interest or passion. IDS courses enable students to initiate their own area of learning and to receive credit towards graduation. IDS courses can be academic or in any other area of interest to the senior student.

## **International Baccalaureate**

### ***Port Moody***

The International Baccalaureate (IB) program has been adopted as a district program to ensure that all highly motivated and talented secondary students have equal access to the opportunities provided through this internationally renowned program. This is a district wide program that offers a coordinated curriculum from Grade 9 through Grade 12. IB includes appropriately challenging experiences in an environment of positive stimulation that comes from working within class groupings of similarly motivated and talented students.

## **Joinery ACE-IT Apprenticeship**

### **Best**

Students take 3 courses in Grade 12 plus Work Experience. The program includes 15 weeks of course work beginning in mid-June at BCIT. Foundation courses: Carpentry and Joinery 11 (B), Math 11 and English 11. Drafting 11 recommended.

## **JumpstArt**

### **Gleneagle**

- an integrated, enriched Art/Humanities program offered for grade 9 students. The JumpstArt program is an excellent option for students who are passionate about art and who may plan to specialize in their senior years.

## **Learning with Technology 11 Project**

### ***Centennial***

- an alternative study option for English 11, Social Studies 11 and Biology 11. Enrolled in English 11 – Learning with Technology; Social Studies 11 – Learning with Technology; Biology 11 – Learning with Technology; and ICT 11 – Modular Survey.

## **Music Composition & Technology**

### ***Centennial, Heritage Woods***

Using both traditional methods and contemporary audio/digital equipment, students will have opportunities to design, create and record music. In addition, students will learn guitar fundamentals or build on their guitar skills. Students will learn open chords, barre chords, and how to read guitar tablature and chord boxes. Students will learn about song form and how to compose with a guitar.

## **Musical Theatre 11/12**

### ***Gleneagle, Pinetree, Port Moody, Riverside, Heritage Woods (9)***

Students will learn the basics of surging, acting and movement techniques as they relate to music theatre. The students take a leadership role in directing and producing a musical theatre performance.

## **Physics 12 AP**

*Dr. Charles Best (Seminar), Pinetree (Seminar), Riverside*

AP Physics is designed to foster physics knowledge, problem solving ability and physics connections to other disciplines and societal issues. AP topics include; kinematics and dynamics with calculus, simple harmonic motion, angular mechanics, direct current circuits, alternating current circuits and optics.

## **Psychology 12 AP Seminar**

*Centennial, Dr. Charles Best, COL, Gleneagle, Terry Fox*

AP Psychology is designed to introduce students to the scientific study of human behaviour and mental processes. Students will be exposed to the psychological facts, principles, and phenomena associated with the topics of neuroscience, behaviour, sensation and perception, consciousness, learning, cognition, emotion, development, personality, disorders, and treatment. Clearly this course is a university-level Psychology preparation. Successful completion of a College Board examination will result in a placement/credit of a typical introductory university/college course in psychology.

## **Recording Arts and Science 9 - 12**

*Terry Fox (gr.9 -12), Port Moody (gr 10-12)*

This course is designed to explore all aspects of audio production. As technology grows, there is ever increasing new fields of 'multimedia' sound production and post-production. This course works for those interested in Music Technology and Recording, Broadcasting, TV & Film, Animation, Theatre and other audio productions. Topics covered in this course will include: basic and advanced mixing techniques for audio CD, theatre and live performance; mixing for Movies and video games, including 5.1 surround sound; recording various soloists and ensembles including rock bands and contemporary music videos; advanced microphone techniques and knowledge of sound manipulation technology such as reverb, flangers, gates, compressors, mixing boards, etc. Voice-overs, synchronization and 'Foley' Artistry will be covered as well as arranging and mixing existing music for multimedia and writing original music using the latest technology.

## **Rock School 10/11/12**

*Port Moody, Terry Fox, Heritage Woods*

- An innovative course providing instruction on how to play in a modern pop/rock/rap/etc. group. This is for guitar players, bass guitar players, keyboard players, horn players and vocalists who already know how to play or sing but need help in putting it all together. It covers how to market yourself in the real world of music, i.e. promotion, making contracts, understanding contracts, royalties, dealing with agents and how to get a "gig".

## **Science CO-OP 11 – Digital**

*Riverside*

This exciting career program will offer Grade 11 students the opportunity to enroll in Chemistry 11, Physics 11, Math 11 Pre-Calculus and Work Experience 12 in the first semester of their grade 11 year (see individual course descriptions for more detail). Students will be grouped together as a "cohort" for these classes. The selected courses provide a foundation for further science studies and entrance into a university science program. Technology will be used to assist in this exploration. Enrollment is limited based on available space and technology. Teaching times will be adjusted so that all students in the program can go on their Work Experience after Christmas break (100 hours) and not miss classes. Work Experience placements will be in a science related field. Note: please contact the school for full details.

## **Science Career CO-OP**

*Terry Fox, Heritage Woods*

This program is for students interested in exploring science-related careers and doing some enrichment/application activities to extend science concepts learned in the regular curriculum. There will be many opportunities for hands on experience through field trips and work experience. In grade 11, students take their science and work experience courses together as a group in Semester II, so that when they do their 3-week work experience they do not miss regular class time. Independent Study in Chemistry and Physics 12 with enrichment topics extended or not usually covered in high school may be included. The grade 12 year is scheduled with the normal flexibility. There is a screened process for the program. *At Terry Fox Science Career CO-OP 11 includes Biology 11, Physics 11, Work Experience 12, & Independent Studies 12*

## **Sport Science 11**

### ***Terry Fox***

This course is designed to expose students to aspects of Biology, Biochemistry and Physics as concerned with sports and the human body. The topics that will be explored will prepare students for post-secondary work in the faculties of Kinesiology (SFU) and Human Kinetics (UBC). Those topics include human anatomy and physiology, biomechanics and other principles of physics, analysis of team and individual sports, principles of training, nutrition, and sports injury management. This course does not provide a Science 11 credit but does count as an elective towards graduation.

## **Steel Fabrication ACE-IT Apprenticeship**

### ***See Counsellor at any secondary school***

Students who complete this program will be employment ready. There will be 2 intakes at BCIT starting in mid-August or February. Foundation courses: Completion of Grade 11, Math 10 Principles or BCIT math pretest

## **String Orchestra 9-12**

### ***Port Moody, Heritage Woods***

- A credit course in orchestral instruction and performance for violin, viola, cello or double bass players. This course will explore the 'classic repertoire' and will have numerous performance opportunities. Offered in the evening so it will not take away valuable scheduling times during regular school hours, members of our community are invited to join as well.

### **[T.A.L.O.N.S. - The Academy of Learning for Outstanding Notable Students](#)**

#### **[Gleneagle](#)**

The only program of its kind in the Coquitlam School District, specifically designed for *gifted learners* in grades 9 & 10 focusing on the Autonomous Learner Model. It addresses the unique needs of gifted learners by integrating English, Social Studies, Math, Science, Physical Education, Planning and Leadership, allowing learners to form connections only possible in an interdisciplinary program. Application to this program is only available for district identified gifted learners **currently** in grade 8 and application package will be sent to eligible students in middle schools in December 2013.

## **Technology Design & Invention 11 (Industrial Design)**

### ***Pinetree, Riverside, Terry Fox, Heritage Woods***

As an exciting and comprehensive program, this course involves both computer activities and project development, and relies on previously acquired design and problem solving skills. Learn to design and create wonderful devices like video games, radio-controlled machines, multi-media, battle-bots, light organs, submersibles, skyscrapers, etc. Learn more about the wonderful world of technology. This course demands a high level of interest, self-motivation and teamwork.

## **Trades Discovery 11**

### ***Terry Fox***

The intent of this course is for students to explore the skills and knowledge of Carpentry, Electrical, and Plumbing plus one other trade area. This will help students choose one of the ACE-IT programs in the future or help them transition to one of the Trade Programs offered at Post Secondary once they have graduated. This course can be taken in grade 11 or 12.

## **Vocal Technique 11/12 (BAA)**

### ***Heritage Woods, Port Moody***

This singing course is designed for students who want to learn how to sing solo with proper vocal technique and style. This course is not a choir class and is for the serious singer or the novice. Vocal Technique will include individual, along with group instruction in the areas of vocal technique, sight-singing, theory and working with an accompanist(s). Opportunities to perform will be provided. All styles of vocal music will be covered.

## **[District Career Programs](#)**

Career Programs are designed to help students explore careers while still in secondary school to move seamlessly into post-secondary institutions or work. SD43 offers a variety programs to target students specific needs and situations. Click on [Programs](#) for a full description of all our programs including brochures and registration documents. We also have a  [quick overview](#) of our major programs.