

*Samuel Robertson Technical*  
*Secondary School*

**2014 - 2015**

*Course Planning*

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# Making Choices

## How Do I Choose My Courses For Next Year?

When we select courses for high school or post secondary, we make those selections for a number of reasons. Some of them might be: grad requirement, post-secondary requirement, fun/enjoyable, new challenge, friends in course, easy credit, no other choice, or discovery. In considering any course, we must reach beyond these simplistic reasons, and evaluate the benefits of the course in larger and longer terms. How can we do this?

Sit down with your parents and discuss your career/educational goals. Do you know what your career goals are? Have you done any exploration to help you understand the education and skills required to reach your career goal? If you don't have a career goal, how can you best exercise your options so as to ensure that you will be able to have a wide variety of choices when you graduate? Are you aware of your interests, skills, learning styles and values? These will impact any decision you make.

Before selecting any course you need to do some research on the course. You can find out about the course from:

- The course Selection Guide
- Course Outline on the school/teacher website
- From the Ministry of Education website
- Asking teachers of the course
- Asking students who have taken the course

No single source will be sufficient. In order to avoid surprises and disappointment you must check multiple sources!

Ask yourself the following questions.

1. Do I need this course for graduation?
2. Do I need this course for post secondary education? (see "Optional Provincial" courses)
3. What skills will I learn? (Life Skills, practical skills, livelihood skills)
4. How will these skills help me as; a person, an employee, a student, a member of society?
5. Will it help me get my first job?
6. Does it enhance my resume?
7. Does it help me apply for scholarships and bursaries?
8. Does this course have career potential for me?

- What are the learning outcomes?
- What is the course content?
- How will the content be delivered?
- What are the achievement indicators.
- What is the method(s) of evaluation?
- What are the teacher expectations?
- Who is teaching the course?

*Make an informed choice first!  
If you rely on the school being able to  
make a change later, you are likely to  
be disappointed.*

# Graduation

**Students must complete a MINIMUM of 80 Credits to Graduate**

## **Grade 10**

- 1) **English 10**  
(Provincial Exam)
- 2) **Socials 10**
- 3) **Math 10** (See page 4)  
(Provincial Exam)
- 4) **Science 10**  
(Provincial Exam)
- 5) **P.E. 10**
- 6) **Fine Arts**  
**Applied Skills**
- 7) **Planning**
- 8) \_\_\_\_\_

## **Grade 11**

- 1) **English 11**
- 2) **Socials 11**  
(Provincial Exam)
- 3) **Math 11** (See page 4)
- 4) **Science 11**
- 5) \_\_\_\_\_
- 6) \_\_\_\_\_
- 7) \_\_\_\_\_
- 8) \_\_\_\_\_

## **Grade 12**

- 1) **English 12**  
(Provincial Exam)
- 2) **Grad Transitions**
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_
- 6) \_\_\_\_\_
- 7) \_\_\_\_\_
- 8) \_\_\_\_\_



# Career Center

**The Career Centre** provides students with a variety of services including: career exploration and testing, community volunteer opportunities, work experience placements, post-secondary exploration including planning and applications, scholarship/bursary research, assistance with employment including job seeking and resume and cover letter building.

The Career Centre assists students in finding placements and keeps a record of their participation. SRT students have been placed with employers such as Ridge Meadows Hospital, Ridge Meadows Home Show, RCMP Youth Academy, Maple Ridge Fire Department, Vancouver Aquarium, Science World and countless local businesses.

## Grad Transitions

All students are required to accumulate a minimum of 30 hours of Work Experience (volunteer or paid), to meet the requirements of Grad Transitions. Ideally, students would use this towards exploring their career options, which will also assist them in making decisions for their post-secondary plans.

## Work Experience

SRT programs prepare and provide opportunities for students to develop skills essential for the workplace. Students in CP Programs are evaluated on a large number of employability characteristics: appearance, attitude, organization, competence, confidence conscientiousness, co-operation, dependability, friendliness, quality of work, reliability and responsibility. Work Experience may take the following forms:

**Job Shadow:** This is a short-term placement(s), usually a half or full day in length to give students an opportunity to explore a career before pursuing a long-term work experience placement.

**Work Experience Programs (WEx):** Work Experience provides an opportunity for students to explore potential career areas. All grade 10 - 12 students to take Work Experience as part of their graduation program. Students will earn 2 credits (50 hrs) and 3 credits (75 hrs). The following activities may qualify as work experience activities:

School arranged placements	Student employment
Entrepreneurship	Electronic work experience
Job shadowing	Work-study program
Community volunteer	Field experiences

**Career Preparation Programs (CP)** A CP Program is a great way to integrate a student's in school program of studies with a career placement. Students can earn up to 8 additional graduation credits as well as a Certificate of Completion that will be presented at the graduation ceremony. Students must complete 100 hours of field related work experience and 3 senior grade 11 and 12 courses in one of these focus areas:

- Business & Applied Business
- Liberal Arts & Humanities
- Fine Arts, Design & Media
- Science & Applied Science
- Fitness & Recreation
- Tourism, Hospitality & Foods
- Health & Human Services
- Trades & Technology

## Secondary School Apprenticeship (SSA)

Secondary School Apprenticeships allow students who are employed in apprenticeable occupations with a registered employer to earn up to 16 credits towards graduation. Students will be registered with the Industry Training Authority (ITA) and upon completion of each 120 hours of paid employment students will receive 4 credits towards graduation (to a max of 16 credits) and be recorded by the ITA and count towards their apprenticeship. A \$1000 scholarship is available to students who complete the program with a C+ average and 900 hours.

# *Business*

## **Marketing 11**

This course looks at basic marketing principles including advertising, promotions, displays, product development, packaging and branding. Students will earn valuable experience working in a small business (our school store) where they are trained in cash register skills, customer service and team cooperation. Marketing 11 is a must for those interested in business or looking for a practical way to apply their creativity.

## **Marketing 12**

This course looks at advanced marketing principles including global economies. The course is text based using internet support. Students in Marketing 12 are expected to take a leadership / management role in running the school store.

Prerequisite - Marketing 11

# *Hospitality*

## **Textiles 9-10**

Express your unique sense of style. This course is an introduction to clothing construction. Students will learn the basics of sewing on sewing machines and sergers. Various sewing techniques and the reading of commercial patterns will be a focus. Evaluation is based on theory, practical work and daily progress. Projects include: handbags, pajamas, skirts and shorts.

## **Textiles 11**

Pre-requisite: Textiles 9-10

Building on skills learned in textiles 9-10, textiles 11 focuses on projects using more difficult fabrics and construction methods. Projects include garments like yoga-wear or sweat pants, hoodies and bathing suits that use mainly knit fabrics. This course is mainly practical in nature, however theory plays an integral role in successful completion of projects.

## **Textiles 12**

Pre-requisite: Textiles 11

Calling all designers! A continuation of textiles 11, this course will continue to build on skills already learned. Advanced sewing and tailoring techniques will be the focus. Sewing with specialty fabrics as well as basic design theory will be taught. Students are given more freedom to create free choice garments that suit their style and needs.

## **Textiles Arts & Crafts 9-12**

Through exploration of various textile media the students will create personal and household projects. Students will learn art elements; principals of construction (knitting, crochet, felting); and fabric embellishment (embroidery, cross-stitch, applique, and quilting). Projects also include small crafts such as handbags, Christmas stockings, bunnies and bears, candle and soap-making and other small craft projects.

## **Culinary**

These courses are designed to give students a basic overview of working in a restaurant or banquet style kitchen. Areas of study include: basic cooking & baking skills, proper use & care of a chef's knife & other kitchen equipment. Students will complete Food Safe Level I and receive a corresponding certificate essential for employment in the food service industry. Daily production of food for the school's cafeteria provides students with the hands on opportunity to develop marketable skills which can lead to direct employment.

**Cook Training 11 and 12** each consist of 3 separate courses. Students may take one course or up to three at each grade level. Each course is worth 4 credits so it is possible to have 24 credits in Cook Training.

## **Foods 10**

Students will start with basic recipes and theory accompanying them, then progress to more difficult and multi-course meals. Topics covered include, principles of food production and their relationship to the environment, nutrition, careers in hospitality, food marketing, and consumerism. This course will provide students with more than the basics to prepare meals at home, or start off in the food industry. Please note that this course is 60% practical and 40% theory.

**Foods 11** - International Foods will introduce you to foods, dining customs, and food preparation techniques of various cultures from around the world. Classes will focus on learning through practical demonstrations and labs. Prerequisite Foods 10

## **Foods 12**

Students will continue to learn food preparation techniques that they will use to create delicious, nutritious and healthy meals. They will study social, economic and cultural influences on food. There is an emphasis on learning by cooking.

# *Languages, Social Sciences, Humanities*

## **English 9**

Prerequisite: English 8

Students will work with more mature subject matter and themes, and will demonstrate growth in the various areas. Increased focus will be given to formal written expression, oral expression, and increasing the quality of cognitive process skills.

## **English 10 -**

Prerequisite: English 9

Interpretation, analysis and appreciation of literature and other forms of communication continue. As well, students are expected to be able to recognize and proficiently use a number of literary techniques of increasing complexity. Provincial Exam Course

## **English 11**

Prerequisite: English 10

Students will explore theme at a more complex level, and a wide variety of literary devices will be covered. Students will move beyond a traditional essay, and begin particular essay formats. Language control and manipulation is expected, as is complex literature analysis and appreciation.



### **English 12-*Available as Multiplatform***

Students will continue to analyze, interpret, critique and respond to complex and varied pieces of literature and other media. Emphasis will be placed on literary techniques and stylistic devices. Students will be expected to demonstrate excellence in academic writing, as well as demonstrate their competency in oral and audio-visual formats. Provincial Exam Course

### **English Literature Honours 12**

Prerequisite: B in English 11

This course is aimed at students who are motivated and who excel and are interested in studying English and history. It is particularly valuable for students looking at pursuing post-secondary education, and especially those wishing to further study within the English/Humanities/Social Sciences areas. Students will receive credit for English 12, and write the English 12 provincial exam to meet grad requirements. English Lit Honours offers a survey study of great works of literature in their historical context, beginning with works from the Anglo-Saxon and Medieval periods, through the Renaissance and 17th century, the Romantic and Victorian periods and into the 20th century. Be prepared to be engaged and challenged as you gain a broad base of knowledge of famous writers and their works as well as an overview of nearly 1500 years of European history.

### **Communications 12**

Students who do not plan to pursue academic studies may consider this course as an alternative to English 12. Students will strengthen basic skills in comprehending and producing language in spoken, written, visual and audio-visual forms. Emphasis will be placed on using language appropriate to the situation, audience, and purpose in their day-to-day lives and in the workplace.

Provincial Exam Course

### **Creative Writing 12 - *Available as Multiplatform***

This course is designed to guide you through the process of writing in different genres. You will be encouraged to challenge yourself through your writing. You will be expected to work in a team peer-editing your fellow student's work. Be prepared to work hard, experience new areas of writing and have fun.

### **Languages 8 (French/Spanish)**

The Languages Department is both proud and excited to be offering our Grade 8 students a Language rotation. Students will have the opportunity to learn and discover both French and Spanish language and culture. Students will take half the year of introductory Spanish and the other half will cover the French 8 curriculum. Our goal is to provide our students the opportunity to engage and embrace learning a second language. Students will then have the choice to take Spanish 9, French 9 or both the following year.

**French 9** is a course still primarily focused on the acquisition of French language skills. Students will continue to develop and improve their vocabulary and grammar which will enable them to engage in authentic French dialogues. This course is project based with many student centered activities. Participation is the key to success in this course. The thematic units in French 9 are: Francophonie, Fashion, Sports and Music. (Pre-requisite is successful completion of French 8 with "S" work habit)

**French 10** is an intermediate Language course designed to fine tune and expand students' ability to communicate in French. They will learn more sophisticated vocabulary and grammar to further develop their skills. Similarly to previous French courses, French 10 is project based with many student centered activities. Participation is the key to success in this course. The thematic units in French 10 are: Home Décor, Jobs, Films, Childhood. (Pre-requisite is successful completion French 9 with "S" work habit)



**French 11** is a course which will enrich both the functional and cultural aspects of the students' learning experience. Students will engage in spontaneous French conversations which explore a variety of topics. This course predominantly focuses on collaborative assignments therefore attendance and active participation are the key to success in this course. (Pre-requisite successful completion of French 10 with "G" work habit)  
The thematic units in French 11 are: L'école, Relationships, and Adventures.

**French 12** is a senior level language course. Students will be given the opportunity to choose the topics they wish to explore relative to French culture and language. This course is not only student centered but rather student guided where their classroom experience is more of a language learning lab and the teacher is a facilitator. Access to a computer with internet will be integral for success. (Pre-requisite successful completion of French 11 with "G" work habit)

### **Spanish 9**

Pre-requisite: Languages 8

This course is an introduction to Spanish for students in grades 9 and 10 who wish to pursue a second language. The emphasis will be on language acquisition through reading, listening, speaking and writing. Students will be immersed in Spanish culture from around the world and learn about Friends, School, Food, and Pastimes.

### **Intro Spanish 11**

Pre-requisite: Students must be in grade 10 or higher. No previous Spanish course necessary.

This course is an introduction to beginner Spanish for students who have not previously studied Spanish. Although this course counts as a grade 11 credit, it may not satisfy the language 11 component required for entrance to all of BC's post-secondary institutions.

### **Spanish 11**

Pre-requisites: Spanish 10 or Intro Spanish 11.

Students will build on the material covered in Intro. Spanish. Through the appreciation of Spanish culture; students will learn more about the traditions and background of all Spanish speaking countries. Themes included: Family, Home, Shopping, Travel, Media and Technology.

### **Spanish 12**

Pre-requisite: Spanish 11

Students will interact spontaneously in meaningful real-life situations using more complex vocabulary and grammar. Activities will include the analysis and discussion of Spanish culture.

### **Social Studies 9**

European history/geography is surveyed from the 17th to the 19th centuries with a focus on the English, French, and Industrial Revolutions. North American history/geography focuses on the foundation of New France, British North America and the United States of America.

### **Social Studies 10**

Students will learn about responsible government, Confederation, the growth of Canada up to World War I and Canada's economic relationship with the U.S.A., and Pacific Rim. The historic development of Western Canada highlight such events as the Riel Rebellions, the CPR, and British Columbia. Geographic skills review of Canada's physical regions.

## **Social Studies 11**

This course focuses on the role of Canada in both world wars, the Depression, and post World War II. The course makes the transition to a global perspective by focusing on population growth, the distribution of resources, and the impact of industrialization and technology on contemporary society. The course covers Canada's system of government at the federal, provincial, and municipal levels. \*Provincial Exam Course

## **History 12**

This course covers World History from the end of World War I to the breakup of the Soviet Union. Some important topics include the aftermath of World War I, the events surrounding World War II, and the Cold War between the U.S. and the U.S.S.R.

## **Law 12**

In Law 12, we particularly focus on criminal law, including trial procedures, policing in Canada, and the Youth Criminal Justice Act. We also study the history of law and the rights and freedoms of Canadians. Throughout each unit we examine current events, interesting legal cases and may view some films that relate to the legal concepts we study. The course includes a possible field study to the Vancouver Law Courts to observe what really happens in Canadian courtrooms.

## **Geography 12**

*Newly designed*, Geography 12 is a flexible course in which students can lead much of their learning through projects and inquiry, applying their creativity and technological skills to show their understanding of both the physical and human world - volcanoes, earthquakes, climate, and glaciation, as well as land use, human impacts on the environment and other important global issues.

## **Humanities 11**

Prerequisites – SS10 and Eng 10

Using the SS11 curriculum as a guideline, over the course of the year, students will cover the role of Canada during both World Wars, the Depression, and Canada during the Cold War. For the English component, students will study literature from Shakespeare through contemporary Canadian authors. This literature will support the Socials Studies curriculum.

Students who complete Humanities 11 will receive credit for both SS11 and Eng 11. This course will provide all of the necessary curriculum requirements of SS11 and Eng 11 but in a combined manner which allows for cross-curricular literature, thematic projects, and enhanced writing skills. This course will be team taught over two blocks by Mrs. Ryall and Mrs. Barichello. The course includes the Social Studies 11 Provincial Exam.

A pessimist sees the difficulty  
in every opportunity; an op-  
timist sees the opportunity in  
every difficulty.  
Winston Churchill



# *Fine Arts - Theater and Music*

The Fine Arts program strives to develop and foster advanced creative and artistic ability in a variety of studio areas. Students are engaged and challenged to achieve their individual goals and objectives as artists within a variety of traditional and non-traditional media

## **Drama 10**

See yourself in the spotlight with an audience hanging on to your every word. Areas of study include: the use of the imagination, exploration of movement, play building, role playing, improvisations, movie scenes, theatre background and concentration skills.

## **Theatre Performance 11**

You will learn improv games, concentration and relaxation, theatre background and careers. Students will also develop expression of emotion, voice projection, accents, characterizations, and blocking. You will be expected to memorize and present a variety of scenes, monologues, and plays for student audiences as well as for an evening performance.

## **Theatre Production 11 - 12**

Members of this class will be involved in all aspects of play production – from building sets, finding costumes, publicity, lighting, and sound – to final presentations in front of audiences. Evening performances may be required. This class will run along with Theatre Performance 11 or 12.

## **Theatre Performance 12**

This course is designed for the serious actor. Students will explore different types of theatre including Greek, Commedia, Shakespeare, and melodrama. Students will also have the opportunity to present using various types of staging. Monologues, scenes, and plays will be performed for audiences. Students will also have the opportunity to explore directing. Evening performances will be required.

## **Junior Art**

Open to all Grade 9 and 10 students. Come and explore the Elements and Principles of Design as they apply to drawing, painting and sculpture. Students will learn various techniques to develop both drawing and painting skills in portraiture, still life and landscape. Work with various mediums such as charcoal, pastels, and acrylics. Enjoy 3-D sculpture work with clay and papier-mache. Learn print making and comic art.

## **Senior Art**

Available to all students who have completed Junior Art or who are in Grade 11 and 12. Continue developing and refining your drawing and painting skills. Work with mixed-media and photography! Discover the many Printing methods. Work with wire, clay, and papier mache to create 3-D sculpture. Learn through Art history interesting ways of working that include Abstraction, Surrealism, Conceptual and Environmental Art. Students may present Independent Project Proposals for personal explorations with a particular medium or to create an art portfolio.



### Senior Art 3D

Sculpture will be the main focus of this class. Perfect for students who find their creative side through hands-on building rather than drawing or painting. Main projects include wire in space, conceptual found art, paper-mache, clay modeling, mold making and plaster casting. Elements and principles of design will be applied to projects. Evaluation will be based on project and sketchbook work.

### Guitar 9/10

Students will experience the fundamentals of the guitar while learning how to read music. Students will learn different strumming and picking techniques while working on a range of music from classical to contemporary. Public performance is a component of this course.

### Guitar 11

An opportunity for students at the senior level to experience learning music for the first time. Due to varying levels of ability, achievement will be assessed based on individual progress. Previous students will continue their mastery of guitar techniques.

### School of Rock (Music Tech 12)

Learn what it takes to be in a real Rock & Roll band while increasing your confidence and team work skills. Consisting of drums, bass, rhythm / lead guitar and vocals, students will form their own bands within the class, compose original music / lyrics and perform for their school community. Finally, the students will record a demo album under the supervision of an instructor for their final project.

#### Fine Arts / Applied Skills Opportunities

Students are required to take a minimum of a Fine Art or an Applied Skill at the Grade 10, 11 OR 12 level.

Grade 9 students at SRT may take 10 Elective (will be given credit for the 10 level)

Grade 10 students at SRT may take grade 10 or 11 Elective(s)

Grade 11 students at SRT may take grade 10, 11 OR 12 Elective(s)

#### Fine Arts Offerings \_\_\_\_

Drama 10

Art 10

Choral Music 10/11

Guitar 10

Theatre Performance 11

Theatre Production 11

Art Foundations 11

#### Applied Skills Offerings

Engineering 10

Computer Multimedia 10

Textiles 10

Foods 10

Drafting and Design 10

Woodwork 10

Metalwork 10

When people start asking you  
to do the same thing over and  
over again, that's when you  
know you're way too close to  
something that you don't want  
to be near.

Neil Young



# Grade 8

## *Grade 8 Program*

This program is designed to better meet the academic, social and emotional needs of adolescents transitioning from elementary to secondary school. Students' core curriculum will be taught by a team of 2-4 teachers (English, Socials, Science, and Math). The courses will run over the whole year. PE/French will be on a day 1/day 2 system. Our EnCore course (explorations) students will be combined with students from other teams and will be on a rotating basis.

### **English 8**

English 8 introduces various reading and comprehension strategies, a self-directed reading program, experimentation with and knowledge of various types of communication, the development of conventional language skills, and exposure to a variety of literary genres, such as drama, short story, novel and poetry.

### **Social Studies 8**

Social Studies 8 surveys world civilizations with a focus on Europe from the Middle Ages to the Age of Exploration. It also covers the New World civilizations of the Aztecs, Mayans, and Incas. Geographic skills are reinforced and expanded by application to the various content areas.

### **Science 8**

A required Grade 8 course, Science 8 involves investigations in Biology, Chemistry, Physics, and Earth Science. Introduction to the scientific method, safety, and laboratory investigations.

### **Math 8**

This course covers a broad range of topics and is designed to review basic concepts from previous grades, as well as develop the groundwork for further formal studies in Mathematics. Upon completion of this course the Mathematics teacher will be able to suggest which stream of study would be best for the student in grade 9.

### **PE 8**

Physical Education 8 will include an introduction and exposure to a selection of activities from each of five movement categories: alternative environment, dance, games, gymnastics and individual/dual activities. All instruction will be focused on fostering an appreciation for physical, social, and mental well being through a diversified program of activities.

### **EnCore 8**

Separate areas will be covered in this introductory course. Students will work in woodwork, metalwork, foods, textiles, computers, art, drama and digital media. Each component will last approximately 7 weeks. These courses will stress hands-on participation. Safety is emphasized and life-long learning patterns fostered.

### **Languages 8 (French/Spanish)**

The Languages Department is both proud and excited to be offering our Grade 8 students a Language rotation. Students will have the opportunity to learn and discover both French and Spanish language and culture. Students will take half the year of introductory Spanish and the other half will cover the French 8 curriculum. Our goal is to provide our students the opportunity to engage and embrace learning a second language. Students will then have the choice to take Spanish 9, French 9 or both the following year.

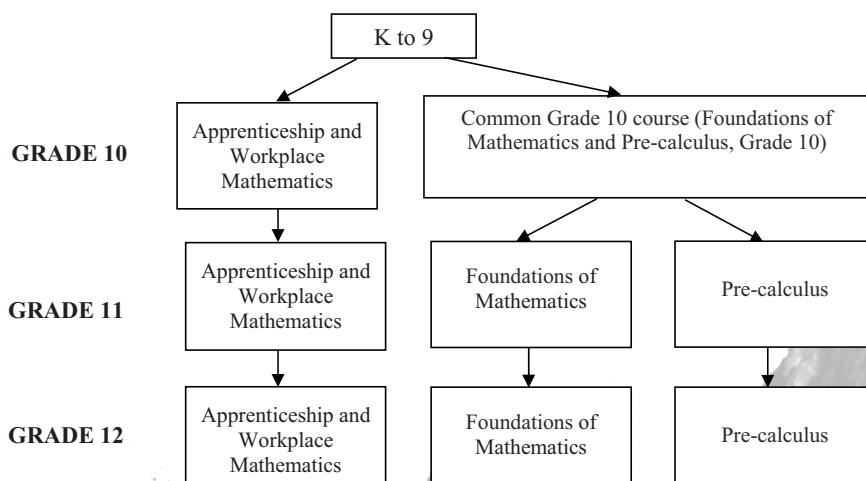
# Mathematics

## Mathematics

Mathematics is a core program for graduation and is required at every grade up to and including grade 11. All courses and streams are designed to improve students' numeracy, reasoning, problem solving, as well as to provide prerequisite attitudes, knowledge, skills and understandings for specific post-secondary programs or direct entry into the work force.

### PATHWAYS AND TOPICS

*The Common Curriculum Framework for Grades 10–12 Mathematics* includes pathways and topics rather than strands as in *The Common Curriculum Framework for K–9 Mathematics*. Three pathways are available: Apprenticeship and Workplace Mathematics, Foundations of Mathematics, and Pre-calculus. A common Grade 10 course (Foundations of Mathematics and Pre-calculus, Grade 10) is the starting point for the Foundations of Mathematics pathway and the Pre-calculus pathway. Each topic area requires that students develop a conceptual knowledge base and skill set that will be useful to whatever pathway they have chosen. The topics covered within a pathway are meant to build upon previous knowledge and to progress from simple to more complex conceptual understandings.



### Goals of Pathways

The goals of all three pathways are to provide prerequisite attitudes, knowledge, skills and understandings for specific post-secondary programs or direct entry into the work force. All three pathways provide students with mathematical understandings and critical-thinking skills. It is the choice of topics through which those understandings and skills are developed that varies among pathways. When choosing a pathway, students should consider their interests, both current and future. Students, parents and educators are encouraged to research the admission requirements for post-secondary programs of study as they vary by institution and by year.

***Please Note: this chart does not include Calculus 12 - which is also offered in our school***



## **Math 8**

This course covers a broad range of topics including integers, fractions, and equation solving. This course expands on the topics learned in grade 7 with a focus on both conceptual and procedural understanding. There is also a focus on mental math and numeracy skills.

## **Math 9**

Pre-requisite: Math 8

This course is recommended for students who have achieved a minimum of 55% in Math 8. This course continues to develop the student's understanding of numbers and number operations along with algebraic concepts. Further development will be done in the areas of data analysis, geometry and measurement.

## **Math 9 Support (Pre-requisite: Math 8) (this course requires parental and departmental approval)**

Pre-requisite: Math 8

This course is designed for students who have experienced major difficulties in previous academic math courses. Topics covered include: number operations, data analysis, geometry, measurement and algebra. This course leads to apprenticeship and workplace Math10.

## **Apprenticeship and Workplace Mathematics 10**

Pre-requisite: Math 9 or 9S

This is a provincially examinable course. Math 10 AW allows students to continue working on the fundamentals of mathematics while exploring measurement in both imperial and SI units, geometry and basic trigonometry, consumer decisions, personal finance, and algebraic formulas. This course is intended for those students who are planning direct entry into the workforce and technical trades. Check the entrance requirements for the program of study you are planning to take, to see if this course meets the prerequisite level.

## **Foundations of Mathematics and Pre-calculus 10**

Pre-requisite: 65% or better in Math 9

This is a provincially examinable course. Math 10 FPC is a theory-based course which explores algebra, relations and functions, geometry and trigonometry, measurement in both imperial and SI units, as well as logical reasoning. This course is intended for those students going into University, College, or Technical trades.

## **Apprenticeship and Workplace Mathematics 11**

Pre-requisite: Math 10 AW

This practical course meets the Mathematics requirement for graduation. It 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, application of different formulae, geometry, personal budgets and finance, statistics (creating and interpreting graphs). Check with your counsellor to see if this course will meet your post secondary entrance requirements.

## **Foundations of Mathematics 11**

Pre-requisite: 60% or better in Foundations and Pre-calculus Math 10.

This academic course meets the Mathematics requirement for graduation. It 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 games and logical reasoning, geometry and measurement, statistics, research project on a historical event or an area of interest that involves mathematics. Check with your counsellor to see if this course will meet your post secondary entrance requirements.

## **Pre-Calculus Mathematics 11**

Pre-requisite: An overall average of 70% or higher in foundations and pre-calculus Math 10

This academic course meets the Mathematics requirement for graduation. The course is designed for students who require a strong mathematical background for future studies in the fields of science, engineering, electronics, computer studies, economics and some business courses. Topics of study include algebra and number (radicals and rational expressions), relations and functions (quadratic, absolute value and reciprocal functions), arithmetic and geometric sequences and series, trigonometry. Check with your counsellor to see if this course will meet your post secondary entrance requirements.

## **Foundations of Mathematics 12**

Prerequisite: Foundations of Mathematics 11 or Mathematics 11 Pre-Calculus

This course expands on many of the topics taught in grade 10 and 11. It is designed to provide students with the deeper mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Topics include financial mathematics, logical reasoning and games, mathematical modeling and application of various functions, statistics and probability, mathematics research project on a historical event or an area of interest that involves mathematics. Problem solving is integrated throughout the course.

## **Mathematics 12 Pre-Calculus**

Pre-requisite: an overall of 70% or higher standing in Pre-Calculus Mathematics 11.

This course is designed to provide students with the deeper mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus. Topics include logarithms and trigonometry, relations and functions (higher degree polynomials, radical and rational functions), permutations and combinations, with problem solving being integrated throughout the course.

## **Calculus 12**

Pre-requisite: A minimum of 80% in Pre-Calculus Mathematics 11.

This course is primarily intended for extremely capable Math students who plan to continue Math at the post secondary level. Students who do not have some secondary school work in Calculus may have difficulty with subsequent Math courses at university or college. This course follows the Provincial Curriculum. Topics include: limits, differentiation, applications of derivatives, antidifferentiation and transcendental functions. An extensive use of graphing apps or calculators will be helping to explore, verify and illustrate concepts and to investigate applications.

“Only those who attempt the absurd...will achieve the impossible. I think ...I think it's in my basement...Let me go upstairs and check.”

— M.C. Escher



# Physical Education

## *Physical Education*

SRT Physical Education will enable all learners to enhance their quality of life through active living by exposing students to a variety of sports, activities, and leisure pursuits so that they have the knowledge, attitudes, and experiences necessary to lead an active, healthy lifestyle.

### **PE 9 - Mandatory**

Physical Education 9 will include exposure to a wide variety of team, partner and individual activities with emphasis on basic skill development, fitness and sportsmanship. Students will also participate in active health labs. The students will participate in some off-campus activities as an introduction to community based recreation opportunities.

### **PE 10- Mandatory**

Instructional emphasis will be placed on the development of the students' leadership skills and abilities. Students will be taught more advanced skills and strategies and be given the opportunity to maintain and improve their fitness levels. There will be more off-campus activities offered, as exposure to "sport for life" will be emphasized.

### **PE 11 - 12 Optional**

The Senior P.E. curriculum allows students to pursue a variety of community based activities. This course offers students the chance to participate in a wide variety of physical and leisure activities offered in an enjoyable and coeducational atmosphere. This course will also offer an introduction to First Aid. Some extracurricular service work is required through volunteer service in the school or community.

### **PE Strength and Conditioning 12**

This course is for the student athlete who wishes to enhance his/her performance level in their respective sport. The goal of this course is for students to acquire the knowledge necessary to train safely using proper technique and principles to improve strength, flexibility, and stamina. Students will learn to achieve goals by acquiring knowledge in the areas of physical development, fitness, nutrition and wellness. Students must have completed PE 11 with a minimum B average and permission from the instructor to enroll in this course.

### **Superfit 11**

This course is available to students in grades 11 and 12, and is designed to provide students with the knowledge to develop and execute a physical fitness program that will enhance physical fitness levels, health and body image. This course will be delivered to female and male students in separate sections.

### **SRT SOCCER EXCELLENCE 10-12**

Student/athletes who have chosen soccer as their preferred sport will have the opportunity to further their knowledge of soccer by enrolling in SRT's Soccer School of Excellence. The emphasis throughout the program will be the improvement of individual technique, skills and tactical teamwork in a SOCCER ACADEMY-LIKE ENVIRONMENT. Defensive and Offensive principles will be taught through 'on-field' and classroom activities in January 2015, each student/athlete will gain CSA coaching certification at the FUNDamental coaching levels including "Active Start" U4-U7 and "Soccer for Life" U8-U12. We will have 'Guest Coaches' from BCSPL and Universities scheduled into our sessions throughout the year. **Please note: See the Head of SRT Athletics for more info on Eligibility. There will be fees to cover certifications, and various activities throughout the year.**



# Sciences

## Science 9

Pre-requisite: Science 8

Science 9 involves continued investigations in Biology, Chemistry, Physics, and Astronomy. Laboratory investigations are a component of this course.

## Science 10

Pre-requisite: Science 9.

Science 10 prepares students for the senior sciences. Topics of study include Biology, Chemistry, Physics, and Earth Science. Laboratory investigations are a component of this course.

*Provincial Exam Course*

## Biology 11

Pre-requisite: Science 10

Through a series of lab-based activities, students will investigate the world of viruses and bacteria, aquatic and terrestrial plants, as well as members of the animal kingdom.

## Biology 12

Pre-requisite: Biology 11 Recommended: Chemistry 11

Learn about the human body at the cellular and organ system levels. Biochemistry topics include: cells, cellular compounds (such as carbohydrates, lipids, and proteins) DNA and cancer. Human body systems include organs and disorders of the digestive, circulatory, respiratory, nervous, excretory and reproductive systems.

## Chemistry 11

Pre-requisite: Science 10

This laboratory focused course is an introduction to the world of chemistry. Topics include: matter, the mole, formulae, reactions, stoichiometry, periodic table, atomic structure, bonding, solutions and organic chemistry.

## Chemistry 12

Pre-requisite: Chemistry 11

Enter a world that describes the batteries that power your laptop and cell phones, the equilibrium balance of chemical reactions, how acids and bases react in our world, and how to speed up a reaction to make it bigger and better.

## Physics 11

Pre-requisite: Science 10

This lab focused course is an introduction to physical world of every-day lives. Topics include waves, optics, kinematics, dynamics, momentum, work, energy and power. Special relativity and nuclear physics are briefly introduced.

## Physics 12

Pre-requisite: Physics & Math 11 This lab focused course is a two dimensional continuation of kinematics, dynamics, momentum, work, energy and power from Physics 11. New material includes electricity and magnetism in three dimensions, torque, and centripetal motion.

## Engineering 10

This course introduces concepts such as g-forces, friction, aerodynamics, and collisions in projects such as bottle rockets, paper towers, spaghetti bridges, virtual bridge building, the egg drop, and roller coaster designing. This course is project oriented, and computers will be used extensively.

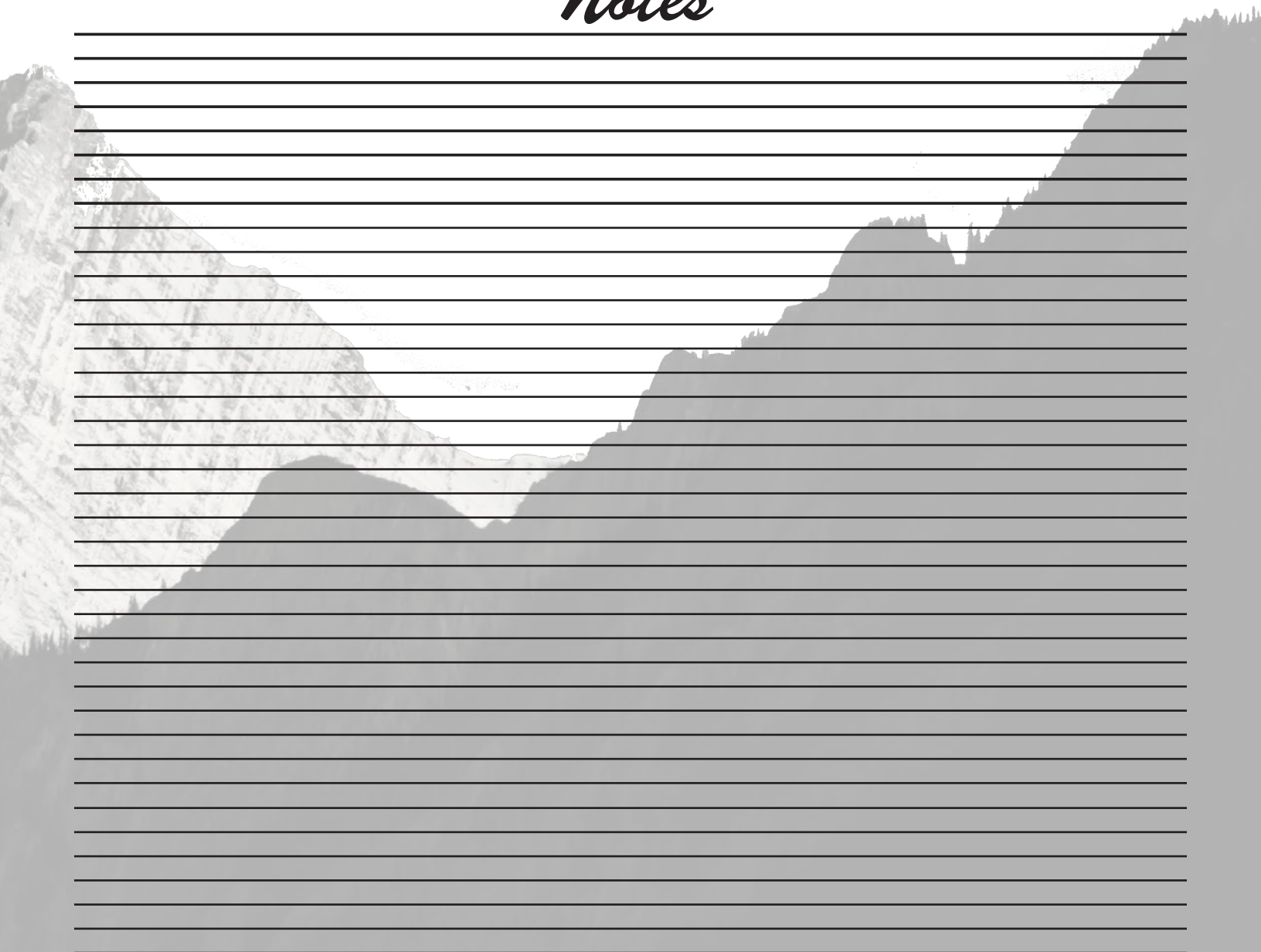
**Engineering 11:** This course is hands-on. Solo and team work will be emphasized. CAD-type programs, computer simulators, computerized sensors, and other tech tools will be used extensively. Projects include hovercrafts, robots, roller coasters, model rockets, toothpick bridges, and motor cars.

## Earth Science 11

Pre-requisite: Science 10

This lab focused course includes the following topics: earth's environment, resources, weathering, erosion, volcanoes, earthquakes, plate tectonics, geologic time, fossils, earth's history, oceanography, meteorology, ocean currents, and astronomy.

# Notes



# *Technology and Media Studies*

## **Media Studies**

Our media department at SRT is state of the art. Instructors offer cutting edge programs and utilize creative/ student centered assessment techniques. Students work with the latest software on current model machines - via both MAC and Windows operating systems. As students progress through the grades they become increasingly independent in their studies while being able to choose from a number of programs. Currently, students can choose areas of study which include (but are not limited to) Animation, Television Production, Print Publication and any number of Photo Manipulation or Video Effects Authoring courses. The department encourages interaction with the community through a number of student / instructor led initiatives. At the senior level, students are offered the opportunity to build a professional portfolio and / or work with the instructors on community ventures. Through these ventures students often find that their expertise is a valuable commodity and begin to see the marketability of their knowledge. It is the goal of this department to produce students who are both active learners and problem solvers - skills that they can take with them regardless of any future employment decisions.

## **Encore 8**

The Encore program gives grade 8 students the opportunity to experience all the programs that are available to them if they choose to progress with I.T. at SRT. Students are expected to build personal portfolios based on their best work that has been collected throughout their tenure with us.

## **Information Technology 10**

This course is open to all students in grade 9 through 12. This is a project based course that introduces students to 3D Modeling, Video Production, Media Design, Programming, Web-design and Animation and a host of graphic manipulation techniques.

## **Animation and Programming 11**

This class will include elements of programming using the Visual Studio Pro software suite. Students enrolled in this course are eligible to receive free software from Microsoft (subject to availability and copyright conditions) In addition, students will also explore the world of animation, 3D mapping and level making, character rigging, and level design.

## **Journalism 12**

This course is ideally suited for those who would like to learn the intricate workings of journalism, photography, layout, design, and publishing. Our goal is to produce a school newspaper once a month that highlights life at SRT.

## **Digital Media & Film 12**

Projects in this course are varied and will test a wide range of student abilities. Students will be expected to master a range of concepts such as digital media manipulation, programming, web design, media broadcasting, and possibly publication layout and design. Success in this course depends on a "hands on" attitude and a problem solving nature. Students will be expected to take on school projects that will showcase the use of technology at SRT. Students also have the opportunity to contribute and or manage our in-house Television Studio - either for class or school productions.



## Digital Layout and Design 12 (Yearbook)

Our main objectives will be to produce and print student publications. In addition we will be responsible for making a the SRT yearbook. This is a course that requires commitment and attention to detail. You will develop extensive knowledge with all Adobe Photoshop / Publication software that can be readily adapted to the workplace. Past students have used the skills learned here to further their working careers once they graduate. It is the commitment to the teacher to provide act reference for all students who complete this course successfully

## Micorosoft I.T. Academy

The Microsoft IT Academy Program is a high school and career-ready education program available to all students of SRT. Designed to provide students with the 21st century technology skills necessary to acquire certification and be competitive in today's rapidly evolving workplace. The IT Academy Program offers a world-class technology curriculum with lesson plans, E-Learning, student projects, and assessments. To date, there are more than 10,000 IT Academy members in more than 160 countries.

### Program Features

IT Academy offers the following:

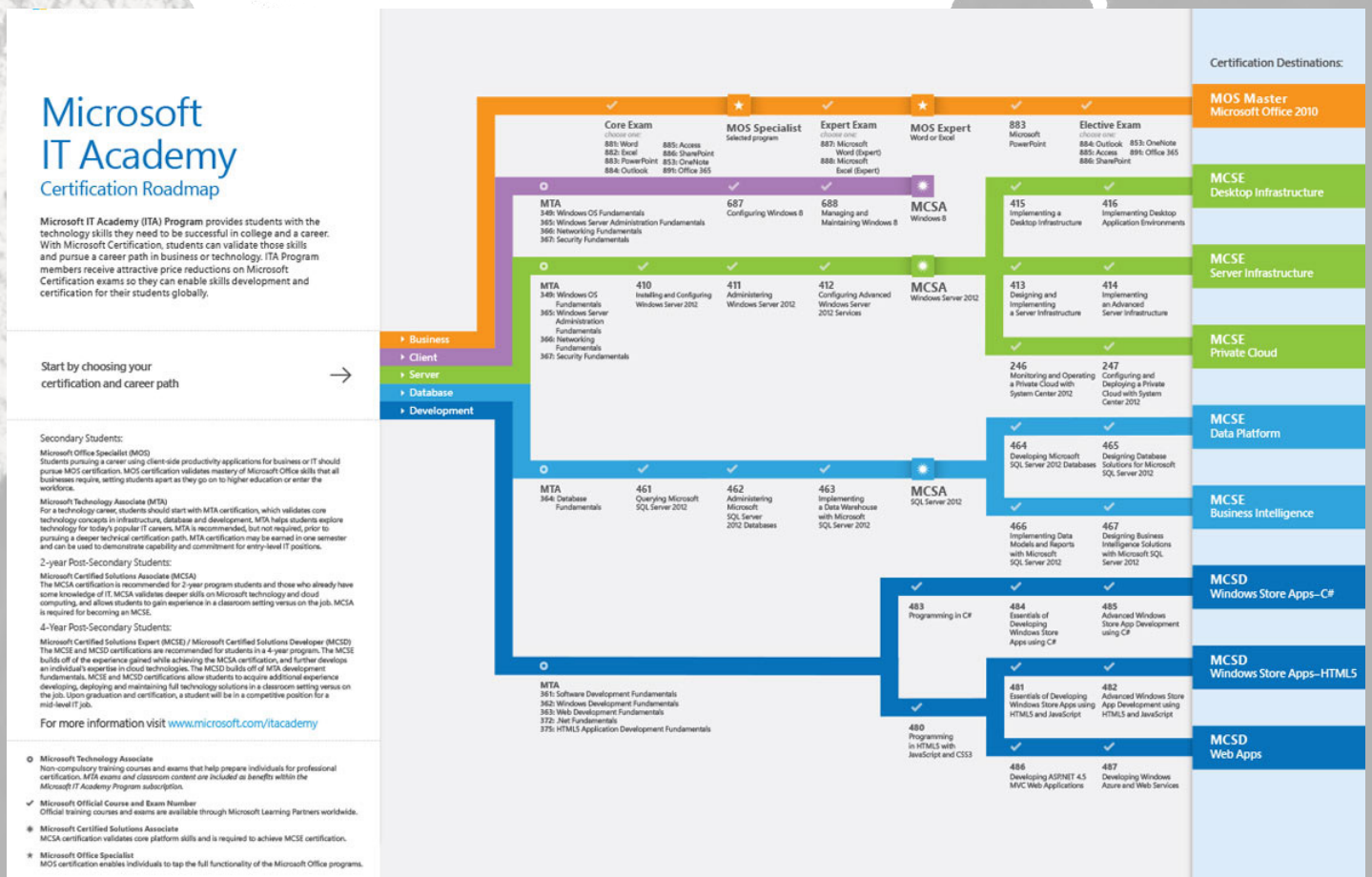
The latest Microsoft software for labs, classrooms, and PCs used by students

Access to a wide range of Microsoft E-Learning courses.

E-Reference Libraries that offer instant access to over 127 Microsoft Press books online

### Student Employability

Students of a Microsoft IT Academy receive hands-on experience with the latest Microsoft software and hundreds of web-based E-Learning courses. And because Microsoft Certifications are widely recognized by employers, the program can help give students an edge in today's competitive job market.



# Technology

## *Technical Studies*

The Technology Education programs at SRT are designed to provide students with an opportunity to gain both the conceptual knowledge and a practical understanding of many technological processes used in our society today. The aims of the department include: the development of technical literacy, an understanding of universal safety practices, how to use tools, materials, systems and processes in an informed and responsible fashion, the practical application of knowledge and skills via hands-on design and problem-solving challenges, projects and labs.

### **Drafting and Design 10**

Drafting 10 introduces the student to the fundamentals of graphic language, the overall design process, and the conventions of both pictorial and technical drafting. Students can expect to design, draw and build projects such as CO2 drugstores and model houses.

### **Drafting and Design 11-12**

This intermediate course is designed to further develop mastery of drafting skills with an emphasis on the design process, and use of AutoCAD. Computer generated sticker projects, as well as CNC projects will also be part of the course. An architectural drafting challenge will require the student to develop a design portfolio.

### **Woodwork 10**

This introductory course places great emphasis on the safe and appropriate use of woodworking equipment. Practical work will consist of several small projects with a focus on measurement, quality construction methods, joinery, material selection and finishing alternatives. Design and creativity will be encouraged and some research will be required.

### **Carpentry and Joinery 11**

Carpentry skills with an accent on intricate joinery, manufacturing jigs, finishing techniques and material selection. The aim of the course is to introduce and implement the design-and-build process involved in the manufacture of more sophisticated projects. The major activity will focus on the construction of a home furnishing. Design portfolios will be developed by each student with the aid of the teacher. This course is ideal for students who plan to proceed to the Kwantlen Partnership Carpentry program offered at SRT in their grade 12 year.

### **Carpentry & Joinery 12**

#### **Prerequisite: CJ 11**

Advanced cabinet making, joinery and millwork is a continuation of Carpentry and Joinery 11. It will be assumed that students enrolling in this course will have a solid background in machine tool operations.

### **Electronics 10**

Open to students in grades 9-12

This is an introductory course in electricity and electronic circuits. Students will learn techniques in measurement, circuit design, PC board manufacturing, circuit assembly, troubleshooting, and project packaging. Students will program microcontrollers, build light displays, alarms, sound generators and a mini sumo robot.



### **Metalworking 9 / 10**

This course is for girls and guys with little, or no previous metalworking experience. Your work will begin with basic materials theory and using hand tools, then it will progress towards power tools, machines, and welding. You will build projects for learning foundational skills and these will prepare you for later opportunities to propose projects of your own design. You will be taught to read mechanical drawings along with measurement methods. If you enjoy having the freedom to think and problem solve at school, then this course is a great opportunity for you. Metalworking 9 / 10 will earn you a grade 10 credit. For more information go to <http://bit.ly/y7hwDg>



### **Metalworking 11 / 12**

This course does not require previous metalworking experience to be successful. Any girls or guys entering grade 11 or 12 who have ever wanted to work with your hands, use tools, and build things to call your own should consider this course. You will be taught how to read shop drawings, carefully measure, and to safely drill, cut, weld, and machine metal. After some learning, you will have the opportunity to attempt projects from your own ideas. This course might help you realize exciting future career paths not considered before, or prepare you for future enrolment in the Metal Fabrication Program offered at SRT through partnership with BCIT. For more information go to <http://bit.ly/y7hwDg>



### **Metal Fab & Machining 12**

This course is for girls and guys entering grade 11 or 12 who have previously taken a senior level metalworking course. Your work will focus on continued experience with types of materials, welding theory, machining principles, problem solving, and project design. You should be able to read and produce mechanical drawings, and use simple math during your work. The majority of your work is project based, and projects will be determined during student / teacher discussions through the year. Where appropriate, there will be emphasis placed on attention to detail, and precision work. Find more information at <http://bit.ly/y7hwDg>



### **Metal Art / Creative Materials 11 and 12**

This course is for students entering grade 10, 11 or 12 with, or without, previous shop experience. This course is a great opportunity to create projects for yourself, or to share with others as gifts. Popular projects include personalized Sterling silver jewelry, pendants, bracelets, candles, acid etched and sand blasted glass or metal, etc. Students are encouraged to source their own project ideas, and push the limits of their skills. Creativity, problem solving, and enjoyment are the underlying themes of the course. Find more information at <http://bit.ly/y7hwDg>



## Secondary School Apprenticeship (SSA)

Secondary School Apprenticeships allow students who are employed in apprenticeable occupations with a registered employer to earn up to 16 credits towards graduation. Students will be registered with the Industry Training Authority (ITA) and upon completion of each 120 hours of paid employment students will receive 4 credits towards graduation (to a max of 16 credits) and be recorded by the ITA and count towards their apprenticeship. A \$1000 scholarship is available to students who complete the program with a C+ average and 900 hours.

## Secondary School Apprenticeship Let School find you a Career

*If you are currently working and between the ages of 15-19, the school district may be able to give you credits for graduation and a \$1000 scholarship. Through the Secondary School Apprenticeship program (SSA) you can earn up to 16 credits (or four courses) towards graduation just for working at your part time job and be eligible for a thousand dollar cheque.*



**There is Money in Trades Training**

The Apprenticeship Incentive Grant (AIG) is a taxable cash grant available to registered apprentices once they have successfully completed their first or second year (level) of an apprenticeship program in one of the Red Seal trades.

### Training Hours

Accrue only after students apply for registration as apprentices with the ITA .

(In many cases, students can be given credit for prior work.)

Must be paid

Must be reported by sponsors to the ITA and recorded by apprentices and SSA Coordinators

Must be verified by a certified tradesperson or equivalent as set out in the policy for earning work-based training hours by the ITA

Must be reported by sponsors to the Industry Training Authority Customer Service (CS) at 480 and 1100 hours

### Courses and Work

Students complete work-based training, or skill development through practical, hands-on experiences under the supervision of certified tradespersons or equivalent.

Students must complete 480 hours training with a sponsor employer to complete the entire program. However, each course counts as 4 credits and 120 hours of work experience .

Course credits are - SSA 11A, SSA 11B, SSA 12A, and SSA 12B, worth 4 credits each to a total of 16 Graduation Credits

### Prior Work

When students have worked in a trade area but are not enrolled in the SSA Program SSA can provide them with credit for up to 240 hours of work in the trade .

**Many times students are already working in an apprenticeable trade and are not receiving any credit. Under this Hidden Apprentice label students can be signed up to the SSA program**

### Pre-SSA

Students are encouraged to undergo at least 30 hours of job shadowing or hands-on work experience in a related trade prior to SSA registration, unless they are already working in the trade area

The 30 hours of job shadowing or relevant work experience can count toward the 120 hours of work experience required for SSA 11A once students are registered for SSA .

For those students who do not pursue SSA after the 30 hours, the hours can be used to meet the 30 hours of work experience and/or community service required for graduation .



### What is SSA

The SSA program is a career program that provides students with the opportunity to begin an apprenticeship while still in high school, and to earn high school credits for doing so. It provides a smoother transition from school to work, and a quicker route to certification in a trade - and to the earning power that goes with it. Note that it is possible for students to take part in both the Secondary School Apprenticeship and ACE IT program together.

**Contact Brad Dingler for more information - [Bdingler@sd42.ca](mailto:Bdingler@sd42.ca)**

**Why Not Start Now. If you are 15 and eligible, you can begin earning Grad Credits while you work. Take the Stress out of Graduation !**



You can get recognition for work that you have already done!

Think About It

*Career Development is a key component of a student's success story, but often it can be marginalized by decision makers who are focused on more traditional core academics and academic career goals.*

# Specialty Programs

## **Leadership 10-12**

Leadership 10 is open to students in grades 9-11 who are interested in developing their leadership skills. This course will provide both background theory and relevant practical experience for student leaders. Students will learn about themselves while making the school a better place.

## **Guided Inquiry 10-12**

Distributed Learning Course

This course has been developed to provide teacher and peer support, encouragement, and enrichment opportunities for talented students who wish to pursue inquiry into topics of interest to them. Such inquiry may be undertaken as an extension of regular academic course content or may represent an interdisciplinary approach to make connections across subject areas. As well, a major component of the course consists in opportunities for students to work together with peers to develop the skills of inquiry.

The course will be run as an online course with a face-to-face component. There will be one mandatory class meeting per month, on a Thursday afternoon from 3:30-5:00 (specific dates and locations TBA). This course can be taken up to three times if the student wishes (grade 10, 11, and 12 level). Students in grades 8 and 9 are welcome to enroll in Guided Inquiry 10. Students interested in taking this course should contact the course instructor at [Kristi\\_Lauridsen@sd42.ca](mailto:Kristi_Lauridsen@sd42.ca) for further information and assistance with registering.

## **Planning 10 - Mandatory**

The aim of Planning 10 is to develop the skills students need to become self-directed individuals who set goals, make thoughtful decisions, and take responsibility for pursuing their goals. Planning 10 provides opportunities to explore a wide range of career and post-secondary education.

Website: [www.bced.gov.bc.ca/graduation/planning10.htm](http://www.bced.gov.bc.ca/graduation/planning10.htm)

## **Grad Transitions (grad requirement)**

Grad Transitions has three components; Healthy Living, Community Connections, and Career & Life. Students are required to complete written exercises to demonstrate their reflection and planning as they begin the transition to post-secondary life. All work is “required”, and must be completed at a 70% level in order to meet the course requirements. Students attend one period per week with the other classes being used as a spare. The alternating Friday is compulsory for those missing work.

Website: [www.bced.gov.bc.ca/graduation/grad-transitions/](http://www.bced.gov.bc.ca/graduation/grad-transitions/)

## **ESL 8-12**

Prerequisite: Counseling/ESL teacher approval. Students in this block need to develop ability in all four skills of speaking, listening, reading and writing. They may have difficulty understanding and adapting to Canadian culture, and may be having difficulty handling the courses they are enrolled in. In this program the goals are to develop stronger reading and writing skills, to use the basic structures of the language more consistently, to gain confidence in speaking the language, and to improve listening comprehension in both social and academic environments.

## **Psychology 11**

PS11 is a senior-level, academic course designed to introduce students to the field of psychology and ideally promote its further study at the post-secondary level.

Almost everything you learn will be RELEVANT and USEFUL in your daily lives. Studying psychology will quickly begin to change the way you perceive yourself and those around you, and enhance your understanding and insight into how we think, act and express ourselves. Topics covered will include such things as: parts of the brain and how they function, personality tests and theories, developmental psychology (from infancy to adolescence), psychological disorders, forensic/criminal psychology, sleep and dreams, stress, social psychology and group interaction and more. Psychology 11 is an interactive class that involves reading, watching film, and a lot of group discussion. This course will occasionally have field trips and guest speakers.

## **Student Aide 11 & 12 (elective)**

Students do not select student aide as part of the course selection process. Teachers submit their applications for student aide in June of the preceding school year. Students may apply for student aide in September and, if accepted, will be scheduled into their aide block by mid October.

## **IDS**

Independent Directed Studies (IDS) is open to all students in grades 10-12, who want to earn additional course credit by doing a research project. Students, in conjunction with a mentor/teacher, will submit a proposal which outlines the focus of their study, the manner in which it will be conducted, the timeline for submission, and the assessment strategies that will be used. Students will be registered in the program upon the successful completion of the project. Each credit requires a minimum of 30 logged hours of time. Students apply for and IDS through their subject teacher.

# *Support Services*

## ***Student Support Services***

SRT recognizes that students learn in different ways, at different rates and require various supports for success. The Student Support Services Department is designed to support students who have academic, emotional, social, and behavioral needs.

## **Learning Assistance**

Our goal is to empower students with self-awareness, perseverance, academic and technical skills and confidence to be successful learners both at SRT and in the future. To register in a support block, students need to be recommended by SPED staff or to apply. They should speak to SPED teachers if interested in a referral.

## **Special Education**

Identified students will have Ministry coding. These students will be supported by staff in the regular classroom and /or in the Learning Support Centre as needed. These students will be working towards the goals of their Individual Education Plans.

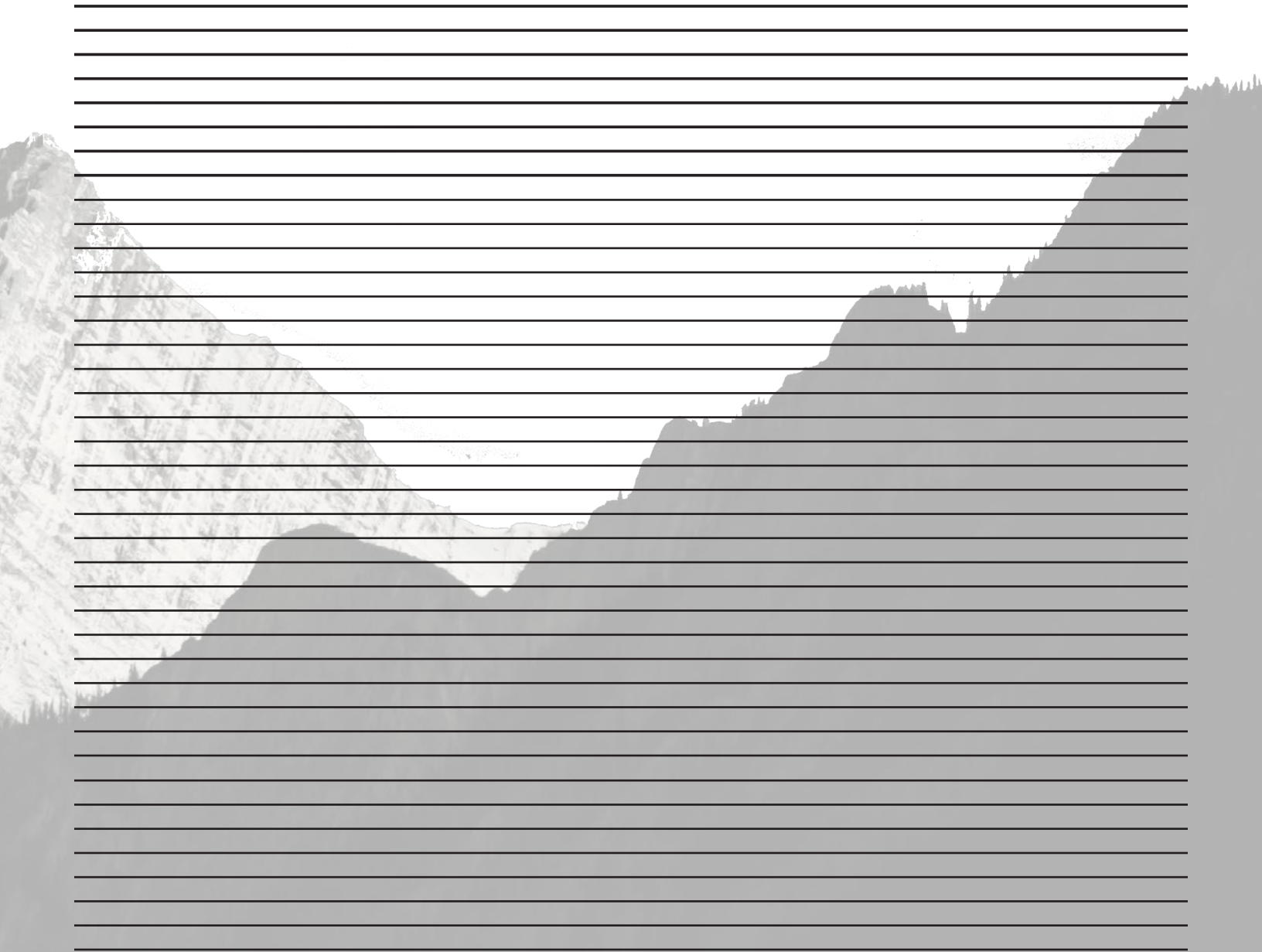


**Peer Mentoring**

Enjoy working with younger students? Interested in pursuing an education career? This course is designed to connect you with a junior student(s), to give you strategies on how to work with and encourage them in the challenges of high school.

***SPED recommendation is required. Application form available from SPED department or counsellor's office.***

*Notes*

A background image of a mountain range with horizontal lines overlaid for note-taking. The mountains are in shades of gray and white, with some peaks covered in snow. The lines are horizontal and span the width of the page, providing a space for writing notes.

# Partnership Programs for 2014

## *Automotive Service Technician*

*This ten-month program runs from September to May at Westview Secondary school in partnership with British Columbia Institute of Technology . Students acquire the knowledge and practical skills for entry into the automotive industry. Students complete level one and level two apprenticeship training and can complete all four levels of technical training if they complete the entire two year program.*

*28 credits - Dual credit for high school and completion of level one apprenticeship.*

*Requirements: \* Grade 11 -*

## *Electrical*

*This 24-week program runs from September to February at Garibaldi Secondary school in partnership with British Columbia Institute of Technology. The program provides graduates with the theory and practical skills necessary to enter the electrical trade. The electrical worker plans, assembles, installs, tests, repairs and maintains electrical equipment and systems in a variety of settings.*

*24 credits - Dual credit for high school and completion of level one apprenticeship.*

*Requirements: \**

*Grade 11 - English 11 / Com 11 (C); Math 11 (C+)*

*\*BCIT pretest is acceptable for English and Math*

## *Metal Fabrication*

*This is a ten-month program running from September to June and is offered at Samuel Robertson Technical in partnership with British Columbia Institute of Technology. The Metal fabrication program deals with the selection, layout, shearing, cutting (with a torch), punching, drilling, forming, fitting and welding of steel plates and structural steel shapes.*

*28 credits - Dual credit for high school and level one apprenticeship.*

*Requirements: \* Grade 11*

## *Hairstyling/Cosmetology*

*This is a ten-month program running from September to June at Samuel Robertson Technical in partnership with Vancouver Community College. The program is divided into three levels and is 10 months in length.*

*The first two levels of this program are designed to cover all core aspects of the industry on a progressive scale, demanding an increase in competence at each level.*

*32 credits - Dual credit for high school and level one to four, apprenticeship training, VCC certificate and writing of the Red Seal Exam.*

*Requirements: Grade 11*

## *Culinary Arts*

*This is a ten-month program running from September to June at Samuel Robertson Technical in partnership with Vancouver Community College. Graduates will find excellent opportunities for employment in all areas of the food service industry, including positions such as assistant cooks or apprentices in restaurants, hotels, and aircraft flight kitchens.*

*32 credits - Dual credit for high school and level one and two apprenticeship training. Class hours are from 2:00 – 7:00 pm*

*Requirements: Grade 11 (mature grade 10)*

# *Partnership Programs for 2014*

## *Carpentry - SRT*

*This is a ten-month program running from September to June at Samuel Robertson Technical in partnership with Kwantlen University. Hands-on shop experience is the basis on which skills are developed in the program. Students who complete the program are eligible for credit for first year apprenticeship technical training.*

*28 credits - Dual credit for high school and level one of apprenticeship training.*

*Requirements: Grade 11*

## *Carpentry- GSS*

*This Partnership between School District 42 and Kwantlen University is a full-time 40-week level one apprenticeship program running from September to June offered at the Garibaldi Secondary. Students complete core academic requirements on site with 28 credits dual credit for high school and apprenticeship training.*

*Requirements: Grade 10 - English 10; Math 10 (grade 11 preferred)*

## *Plumbing Apprenticeship*

*Garibaldi Secondary and Kwantlen University have partnered together to offer a level one apprenticeship plumbing program. This 25 week program will give students the practical and theory skills to enter the piping / plumbing industry. The program is taught by Kwantlen instructors and follows the provincial apprenticeship curriculum. Students receive dual credit (high school graduation and college credits for completion of the program) Students will develop the necessary habits concerning safety and the proper use of time, tools, materials, and the work skills required to be a competent trade's person in today's workforce. Students who successfully complete the Plumbing Foundation program will receive Level 1 in-school technical training credit and 375 work-based hours towards completion of the Plumber Apprenticeship program. Students are able to follow one of the four certification streams; plumbing, pipefitting, gas fitting and sprinkler fitting.*

*Requirements: grade 11*

*For more information about School District No. 42's partnership programs talk to your high school counselor, career advisor or work experience teacher or contact District Career Programs Coordinator Ron Lancaster*

*Ph: 604 466 8409*

*Email: [rlancaster@sd42.ca](mailto:rlancaster@sd42.ca)*



