

**L. A. MATHESON
Secondary School**

**GRADE 10-12
Graduation Program Handbook
2012-2013**



**The information contained in this handbook can also be accessed from
our school website.**

<http://www.sd36.bc.ca/lamath/index.html>

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Principal's Message

At L. A. Matheson Secondary, we believe that all students can learn. Success at school requires regular attendance, good planning, and hard work. Time management and organizational skills also play a major role in students' success. Fundamental to our belief system at L.A. Matheson is the connection that all learners make with their studies, the goals they set for themselves, and, most importantly, the connections they make with one another.

This booklet outlines the course choices that are offered to students at our school. Choosing wisely is dependent on a number of factors and involves the planning skills and personal connections we accentuate at L.A. Matheson. While it is advisable to keep one's options open, it is necessary to narrow the focus at times to ensure a manageable course load. Keep in mind that the choices made at the graduation program level (Grades 10-12) will impact on the path a student can follow after graduation. As a school, we highly encourage our students to explore a variety of courses in order to discover where their interests and talents lie. Cooperation and support between home and school are good predictors of effective student learning. Students are advised to seek guidance and advice from parents, teachers, counsellors and peers when making decisions about the courses they choose.

We look forward to the contributions that each student will make to the culture of our school, and we are certain that the secondary school experience will be both enjoyable and rewarding at L.A. Matheson.

Mr. P. Sarmiento
Principal

Mission Statement

L.A. Matheson provides a safe, cooperative, and supportive environment to promote social, intellectual and creative growth for staff, students and parents. This environment fosters healthy, productive, responsible citizens of the global community.

HOW TO USE YOUR COURSE SELECTION HANDBOOK

"BEGIN WITH THE END IN MIND"

Course selection time is an opportunity to continue thinking about the path you are taking towards graduation and beyond. As a secondary student, it is not expected that you will have all your plans written in stone, but it is important to research the opportunities that are appropriate for you. With that in mind, it is essential to select courses that will keep doors open.

Course selection is a process and this book is one of the tools to help you select your courses. It is expected that you will also take the time to dialogue with your parents, teachers and counsellors about the courses you will select. Further, it is expected that as a senior student, you will also be consulting career facilitators and post-secondary calendars (available in the Counsellor's office) and websites (www.educationplanner.ca), ensuring that prerequisites are met for post-secondary programs that you are interested in.

FACTORS TO CONSIDER IN MAKING YOUR DECISIONS

As you think about choosing your courses for next year, you should ask yourself:

1. What courses **MUST** I take for graduation?
2. What courses **MUST** I take to meet post-secondary and/or apprenticeship entrance requirements?
3. What courses **MUST** I take to prepare for the work place?
4. What will be the total time demand of the courses I select?

The course selection process at LA Matheson Secondary provides an excellent opportunity for personal growth and for exercising decision making skills. The staff at LA Matheson looks forward to helping you make the best informed decisions possible.

My Graduation Plan

Grade 10	<input checked="" type="checkbox"/>	Grade 11	<input checked="" type="checkbox"/>	Grade 12	<input checked="" type="checkbox"/>	Other Courses
1. English 10		1. English/Comm 11		1. English/Comm 12		
2. Social Studies 10		2. Social Studies 11		2. _____ 12		
3. Math 10		3. A Math 11		3. _____ 12		
4. Science 10		4. A Science 11		4. _____ 12		
5. Planning 10		5.		5.		
6. P.E. 10		6.		6.		
7.		7.		7.		
8.		8.		8.		

COURSE REQUIREMENTS:

48 credits are required courses, including:

English 10*	4 credits
Mathematics 10*	4 credits
Physical Education 10	4 credits
Planning 10	4 credits
Social Studies 10	4 credits
Science 10*	4 credits
Fine Arts or Applied Skills 10, 11 or 12	4 credits
English 11 or Communications 11	4 credits
Social Studies 11*, or Canadian Civics 11 or B.C. First Nations Studies 12	4 credits
Science 11 or 12	4 credits
Mathematics 11 or 12	4 credits
English 12* or Communications 12*	4 credits
SUB TOTAL	48 credits

Elective Courses

28 credits

All must be of grade 10, 11 or 12 level

A minimum of 16 credits must be grade 12 level (4 courses), including English 12 or Communications 12.

Graduation Transition Program

4 credits

GRAND TOTAL

80 credits

*Students are required to write a government exam for these courses.

Career Planning

ALL students are required to complete the following two courses in order to meet the requirements of the Graduation Program.

Planning 10

Students explore the elements of education and careers, finances, health and the Graduation Program. Planning 10 provides opportunities for students to plan for successful learning in the Graduation Program, explore a wide range of career and post-secondary education and career options, think critically about health issues and decisions, develop financial literacy skills, and plan actions required to pursue post-secondary destinations and career paths. This is a four credit course mandatory for graduation.

Grad Transitions

The Graduation Transitions program is a graduation requirement. The intention of the program is to prepare students for a successful transition to life after secondary school. Students are responsible to collect evidence in three areas of achievement during Grades 10, 11, and 12; Personal Health, Community Connections and Career and Life. Students will complete 30 hours of Community Service (paid or unpaid) and participate in completing a Daily Physical Log of 150 minutes of moderate to vigorous physical activity per week throughout Grade 10, 11 and 12. There is an exit interview for the student to present their plan and showcase their accomplishments. This four credit course is mandatory for graduation and has a mark of RM (requirement met) on a student's transcript.

<u>Personal Health</u>	<u>Community Connections</u>	<u>Career and Life</u> (completed in Grade 12)
<ul style="list-style-type: none"> • Daily Physical Activity (DPA) Log including 150 minutes per week • Healthy Living Plan (completed in Planning 10) 	<ul style="list-style-type: none"> • 30 hours of work or volunteer experience (paid or unpaid) • Community Connection Reflections 	<ul style="list-style-type: none"> • Transition Plan (long and short term goals) • Attributes of a BC Graduate • Financial Plan • Resume, cover letter and reference letter • Exit Interview
DPA Log plus one worksheet of questions	30 hour log plus one worksheet of questions	This section is completed as a first draft in Planning 10 and then revised, resubmitted and marked in Grade 12

Business Education Department

Business Education courses will provide APPLIED SKILLS credits for graduation.

Accounting 11

Accounting is for you whether you want to balance your cheque book, run your own business, learn spreadsheets, or gain skills to obtain banking or entry-level accounting positions in accounting firms or banks. Accounting opens the door for great opportunities for future careers. This is a terrific course for students who plan to manage or own any small or medium-sized business. Also, students who wish to pursue post-secondary studies in accounting, finance, business management or commerce will have a definite advantage by taking this course. It is recommended that students taking this course have a mark of 60% or higher in Math 10.

Accounting 12

Although this course will be on-line through Surrey Connect, it is a hands-on course that uses industry-standard software programs to prepare and present accounting reports and other financial information for small businesses. You will learn about current business practices and the financial needs of a business including payroll, taxation, budgeting, and inventory. This is a terrific course for students who plan to manage or own any small or medium-sized business. Also, students who wish to pursue post-secondary studies in accounting, finance, business management or commerce will have a definite advantage by taking this course.

Animation 11

Students are introduced to the key aspects of 2D classic animation, stop motion camera animation, claymation, 2D computer animation, and 3D computer animation and modeling. The focus of this course is on the history of animation, story boarding, script writing, character design, modeling, and movement. Students start with an idea, sketch out a character, then model and animate it using industry-standard software such as Flash MX and Cinema 4DXL. A background in art, information technology or photo manipulation would be extremely helpful. The course would be a great stepping stone for gaining entry to post-secondary institutions in either animation or computer game design.

Animation 12

This course is an advanced course in animation. Students will create work that reflects an understanding of personal, social, cultural and historical contexts. Students will demonstrate their knowledge of the elements and principles of design through advanced projects and presentations. Students will use a variety of software to create their animations, demonstrating their knowledge of storyboarding, scriptwriting, character development, set design and the principles of cinematography. Students will reflect on their own work and learn to critique the work of others. The course will culminate in a project that demonstrates their understanding of the principles of animation.

Business Computer Applications and Data Management 12

Would you like to have the office, communication, and presentation skills to succeed in today's business job market? Do you want to work in an office or run your own business? Increase your keyboarding proficiency to employment standards. Learn industry standard software such as Microsoft Office (Word, PowerPoint, and Excel), PhotoShop, and Dreamweaver to solve complex business problems. This is an excellent opportunity to gain entry level employment skills while still in high school. Don't graduate without learning all about word processing, spreadsheets, databases and web pages. This course would cost you hundreds of dollars to take at a business school after graduation. Save your money – take it now for free and get that head start on a great career!

Business Education 10

It's fun, it's exciting, and it's Business 10! If you dream of the making a lot of money, want to learn how to manage your money and make it go further, hope to make it big in the world of high finance, or maybe even plan to own your own business, then this is the place to start. As you discover what business is all about, you will learn about business communications, consumerism, economics, finance, accounting, marketing, law, entrepreneurship and international business. Business 10 will give you the knowledge and skills you need to make it in the future. It is a jam-packed class with interesting information about how to succeed in the business world.

Computers 10: Introduction to Information Technology

This course is a great opportunity to move your computer skills beyond surfing the Internet, chatting with your friends on MSN, or using e-mail. This course introduces you to the fun and exciting world of computers where you will learn how to type quickly without looking, browse the Internet effectively to find the information you are looking for and communicate effectively through word processing and presentation software. You will learn to create spreadsheets in Excel, create a database where you can keep track of large amounts of information, design your own web page by using HTML, create a multimedia slide show, paint and draw fabulous artwork while using graphics programs, use photo editing software to manipulate photos, and perhaps build your own computer game. Advanced students will have the opportunity to design interactive web pages using Flash and Dreamweaver, and explore simple sound and video editing. Everything you learn in this course will help you do better in all of your other courses.

Computer Studies 11: Web Design and Game Programming

No experience with computers is necessary.

This course provides an overview of how computer technology is used to enhance communications within our society and provides an essential background for students intending to continue studies or careers in the highly competitive areas of computers, science and business. The focus of this course will be Web Site development using HTML and CSS, photo manipulation and enhancement, and computer programming in either C++, JAVA, or Flash. By the end of the course you will have programmed your own unique computer game that can be played on any platform. Other topics covered might include video editing, sound editing, internet usage, networking structures and simple animation techniques. Some of the software programs used will include Adobe PhotoShop, Dreamweaver, and Flash.

Computer Studies 12: Website Design, Animation and Game Programming

Successful completion of Computer Studies 11 is highly recommended for this course.

This course builds on the material introduced in the Computer Studies 11 course. The focus of this course will be advanced website design (using HTML, cascading style sheets and HTML editors), multimedia production, photo manipulation and enhancement, and computer programming (JAVA, and/or ActionScript). Other topics covered will likely include video editing, networking structures, and various animation techniques. Some of the software programs used will include Adobe Photo Elements/Shop, Dreamweaver and Flash.

Digital Art, Digital Photography, and Interactive Web Design 11

This Digital Arts course is intended to introduce students to photo manipulation and editing, computer graphics, interactive web site design, Flash animation, and basic sound and video editing. Although some of these topics are covered in the ICTX11 and 12 courses, they will be covered in more detail within this course. A focus will be on story development and professional design. Software programs covered in this course include Adobe PhotoShop, Dreamweaver, Flash, Fireworks, and Freehand. Throughout this course, you will develop the skills and attitudes required to achieve employment in the rapidly developing field of Digital Arts and Information Technology.

Digital Art, Digital Photography, and Interactive Web Design 12

This course builds on the material introduced in the Digital Art and Web Design 11 course (ICTM11). You will further develop your skills in the areas of interactive website design (using Dreamweaver and Flash), photo editing and manipulation using PhotoShop, basics of animation using Flash and Image Ready, and graphic production using Fireworks, Illustrator, and Freehand. You will be required to complete assignments in each of the “core” areas, but flexibility is given to allow you to pursue an area of special interest. If interested, you can learn ActionScript programming to enhance the features of Flash. You will showcase your skills in the production of a portfolio to show potential employers or to submit with your application to Digital Arts or animation programs offered at institutions such as the Art Institute, Vancouver Film School, or Emily Carr. Throughout this course you will develop the skills and attitudes IT employers are looking for in the areas of graphic and design, animation, and computer game programming.

Entrepreneurship 12

Entrepreneurship 12 provides students with an opportunity to learn about the essentials of creating a business plan. As a part of a team, you will exercise the business plan by running a small business. You will learn to work as a team to plan, operate and liquidate a business. Come and get a head start on your business venture!! Students will organize the events such as the annual 3-on-3 Basketball Tournament with proceeds going to local charities.

Graphic, Magazine, and Web Design 11

This is a fun and exciting course that will help you learn the same processes and techniques that professionals use to create print and online publications that effectively communicate their ideas and market products to various audiences. As a class we will build an eZine or “LAM Ink” newspaper that all students of Matheson will want to read on a daily basis. You will learn the basics of layout and design, copy writing, colour theory, the printing process, typography, digital photography, graphic production, web design, and journalism. You will use industry-standard computer software (InDesign, PhotoShop, Dreamweaver, and Illustrator) to make exciting projects such as business cards, letterheads, brochures, advertisements, movie posters, CD and DVD covers, menus, and web sites. The skills acquired can help you to be more successful at school, at university or college, and in your future careers.

Graphic, Magazine, and Web Design 12

This course builds on the skills gained in Graphic, Magazine, and Web Design 11 and provides you with a stronger focus on the unifying and publishing of large-scale projects. You will have an opportunity to explore projects of personal interest, but will also take a leadership role in the development of a school newspaper and other real-life projects to promote various school events. You will begin to develop the necessary skills for coordinating projects and understand how to meet client needs in the desktop publishing industry. Throughout the course, you will gain valuable electronic design skills that will enhance your future career and education opportunities.

Marketing 11

Ever wanted to start your own company, market your great invention that will revolutionize the world, or become a store manager? If so, then this is the course for you. Marketing 11 will provide you with an opportunity to examine the nature and role of marketing in a local context. You will learn how marketing helps businesses determine and meet customer needs, how businesses examine market conditions and present a variety of products and services to their potential customers, how marketing helps businesses become and remain successful, and how consumer decisions influence the marketplace. You will gain an understanding of the need for good customer relations and of how this attitude drives the economic system in Canada. You will explore how the marketplace is impacted by changing economic conditions, as well as political, social, cultural, and legal factors. You will also gain an appreciation of how government

regulations affect businesses. By the end of the course you will have a better understanding of roles of consumers and producers in an economic system.

Marketing 12

Marketing is the creative and inventive side of business. The world is getting smaller with international trade being the norm rather than the exception. Learn how various cultures affect international marketing and trade. Students will research, export, and import rules for their own international company. Find out how B.C. fits into the global economy. Learn how to convince people to spend their dollars on your product, which cost you pennies to make. Create advertisements, three-dimensional store layouts, and surveys in this fun and exciting business course. Learn how to market yourself or your own product or business. Field trips, guest speakers, and hands-on projects are used to teach you this valuable business skill that will help you take the financial world by storm in the future.

Visual Media Arts 11 (Digital Photography)

As technology improves and prices decrease, more people are turning to digital cameras to capture their memories forever. This course will cover the basics of photography: how digital cameras work, lighting, composition, rule of thirds, shutter speed and aperture, motion, colour theory, and career options. We will develop skills with different types of photography: portraits, still life, nature, sports, and times of day. Having left the darkroom behind, we will use software to help us “develop” our digital negatives, editing and manipulating them to create professional quality images. We will explore the history of photography and analyze how we have changed our perceptions of who is a photographer and what role they have in capturing history. While examining the role of photography in society, we will discover how images are used to tell a story, to communicate ideas, to share experiences, and to market products and personalities. This is a great course for students who have an interest in photography and want to learn to take better pictures.

Tourism 11

Tourism is the fastest growing industry in BC. In this course, students explore local and provincial tourism through classroom activities, guest speaker field trips, and internet research. Students can earn industry-accepted certificates, including World Host Fundamentals and Serving It Right. These certificates are useful for part-time jobs as well as future career opportunities. The interpersonal skills and geography learned in this course are applicable in any career.

Tourism 12

This course is a continuation of Tourism 11, but with an international and global focus. Students explore world tourism through classroom activities, guest speakers, field trips and internet research. Students can earn the following industry-accepted certificates: World Host Service Across Cultures and World Host Japan. All certificates are useful for current jobs and future career opportunities. Knowledge, skills, and attitudes in interpersonal relationships continue to be developed.

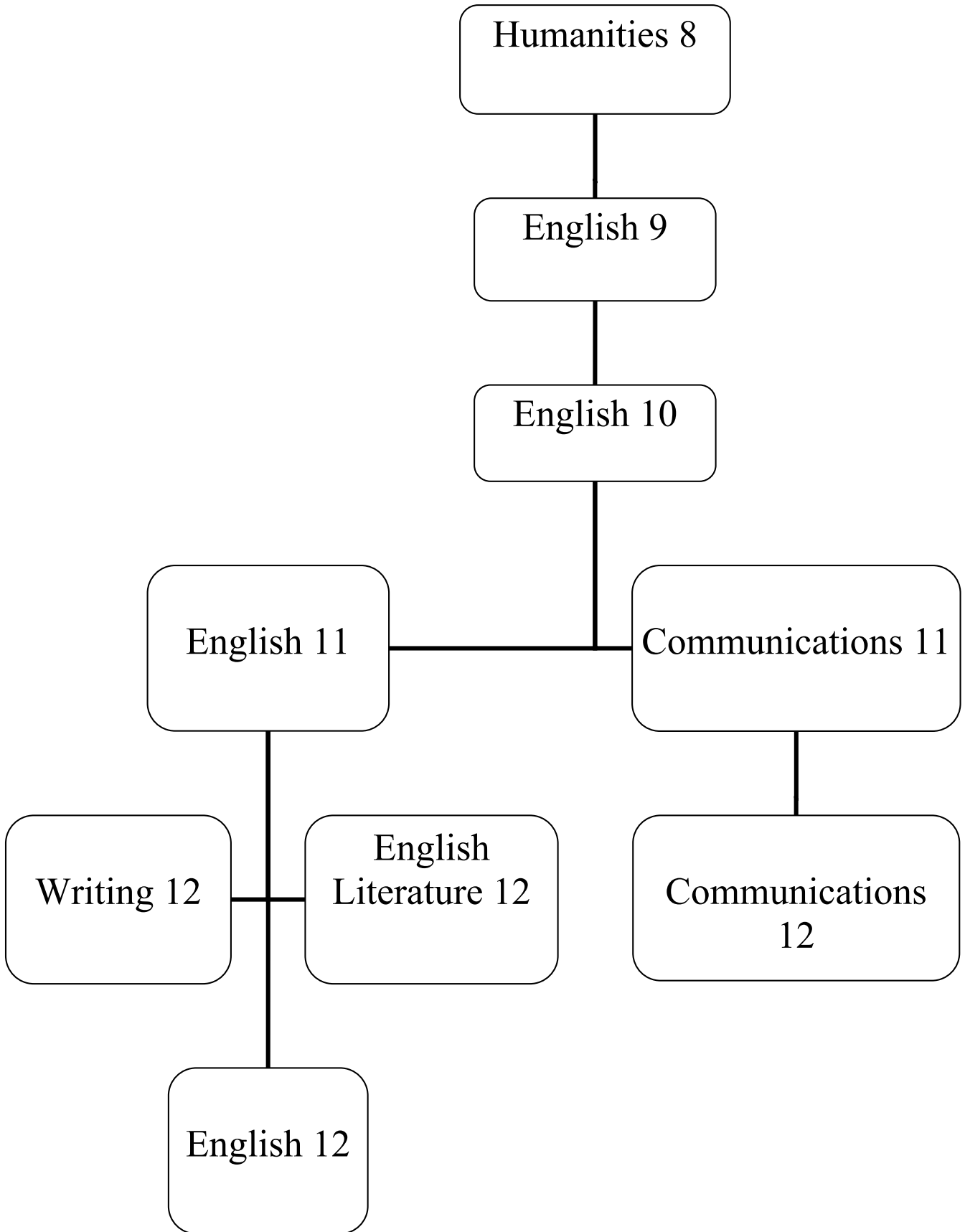
Yearbook 10

Yearbook 11

Yearbook 12

Students will be totally responsible for the production of the yearbook publication. Students interested should have a B or better in their English courses. Students must be willing to work as a team and be willing to put in extra hours outside of class time. As deadlines are a critical reality of this class, a mature attitude and good work ethic are a must.

Within the course, students will learn the principles of layout and design used in the desktop publishing industry and will work with industry-standard software, including PageMaker and PhotoShop. As we are moving towards creating a completely digital book, students will gain experience with digital cameras, scanners, and photo manipulation and enhancement. Interested students can also become involved in the creation of our first Interactive Yearbook CD-Rom.
Note: Students will be interviewed prior to admission to the class.



English

Communications 11

Communications 11, an alternative to English 11, is designed for students not proceeding directly to university or a university transfer program. Like English 11, it integrates the skills of reading, writing, oral communication, viewing and representing. It is intended to develop the critical reading and writing skills necessary for success in career and personal life.

Communications 12

Communications 12, a continuation of Communication 11, is designed for students not proceeding directly to university or a university transfer program. It is intended to develop and enhance students' appreciation of literature and language. The activities and resources are increasingly more sophisticated, but are carefully selected to appeal to the range of students' interests and abilities. Students will read for a variety of purposes and demonstrate understanding of short stories, novels, poetry, drama, mass media and non-fiction. The final grade will be determined as follows: 60% school mark and 40% government examination. *Students must write the Communications 12 government exam.*

English 10

Through the integration of reading, writing, oral communication, viewing and representing, English 10 is designed to develop students' skills and appreciation of literature and language. The activities and resources are selected to appeal to a range of interests and abilities. Students will read for a variety of purposes, demonstrate interpretive understanding and critically analyze short stories, novels, poetry, drama (e.g. a Shakespeare play) and non-fiction. *Students must write the English 10 government exam worth 20% of their final mark.*

English 11

English 11 integrates the skills of reading, writing, oral communication, viewing and representing. Students will read for a variety of purposes, demonstrate interpretive understanding, and critically analyze short stories, novels, poetry, drama (e.g. a Shakespeare play) and non-fiction. Students will write in a variety of formats, employing all stages of the writing process: pre-writing, drafting, editing, proof reading, and publishing. Emphasis will be on multi-paragraph composition.

English 12

English 12 is a continuation of the skill development in English 11. It continues to develop and enhance students' appreciation of literature and language. The activities and resources are increasingly more sophisticated, but are carefully selected to appeal to a range of student interests and ability. Students will read for a variety of purposes, demonstrate interpretive understanding and critically analyze short stories, novels, poetry, drama (eg. a Shakespeare play), mass media and non-fiction. The final grade will be determined as follows: 60% school mark and 40% government examination. *Students must write the English 12 government exam.*

English Literature 12

This course is a survey of English Literature from Anglo-Saxon to modern times. Literature 12 provides an important background for future studies in the Humanities and Liberal Arts.

Writing 12

Writing 12 is a course for students who have an interest in and a flair for writing. Students will explore writing style in prose, poetry, drama, and non-fiction. Through various published works, guest presentations, and their own original pieces, students will gain a deeper understanding of writing as a craft. Students will be encouraged to seek publication.

Fine Arts Department

Fine Arts courses will provide FINE ARTS credits for graduation.

Music

Concert Band 10

Open to students who have completed Band 9. Students will learn a variety of extensive repertoire, and will develop skills at a senior level. This is also one of the premier ensembles of the school. Students may be expected to perform at local, regional, national and international festivals. Tours have included destinations such as New York City, Anaheim, California and Cuba. *Recommended: Band 8, 9, or Director's Approval*

Concert Band 11

Open to students who have completed Band 10. Students will learn a variety of extensive repertoire, and will develop skills at a senior level. This is also one of the premier ensembles of the school. Students may be expected to perform at local, regional, national and international festivals. Tours have included destinations such as New York City, Anaheim, California, and Cuba.

Concert Band 12

Open to students who have completed Band 11. Students will learn a variety of extensive repertoire, and will develop skills at a senior level. This is one of the premier ensembles of the school. Students may be expected to perform at local, regional, national and international festivals. Tours have included destinations such as New York City, Anaheim, California and Cuba.

Jazz Band 10

An excellent class to learn and play musical styles such as swing, jazz, blues, rock and funk. This is also one of the premier ensembles of the school. This class meets outside the regular timetable. *Recommended: Any level Concert Band 8, 9, 10 or 11, or Director's approval. It is recommended the student be enrolled in concert band in addition to the jazz band.*

Jazz Band 11

Jazz Band 11 continues to build on the music foundation begun in Jazz Band 9 & 10. Students will enjoy musical styles such as swing, jazz, blues, rock and funk. This is also one of the premier ensembles of the school. This class meets outside the regular timetable.

Jazz Band 12

A continuation of Jazz Band 12, this exposes the musician to increasingly more difficult music. Students will continue to play musical styles such as swing, jazz, rock, funk and blues. This is one of the premier ensembles of the school. This class meets outside the regular timetable.

Guitar 10

Guitar 10 will have students at various levels learning and improving the basic skills associated with playing the guitar. Guitar 10 is designed for the beginner. It covers the basics of playing guitar. Students will be evaluated on their mastery of playing posture, tuning, reading music, different strokes, chords, and scales with a focus on modern music. This class will have a public performance component and will give students an introduction to composition and basic recording skills. Students will demonstrate knowledge, use, and care of selected instruments. *Students are encouraged to provide their own guitar.*

Guitar 12 (Intermediate / Advanced)

Guitar 12 (Instrumental Guitar) is a guitar class that will have students at various levels learning and improving the basic skills associated with playing the guitar. Guitar 12 will place emphasis on performance and original composition. Students will learn theory associated with guitar, open and bar chords, progressions, various rhythms, finger plucking and strumming styles as well modal scales. Students will be evaluated through tests and performances of their mastery and understanding of concepts and incorporation of the associated techniques. Students will also demonstrate knowledge, use, and care of selected instruments. *Students are encouraged to provide their own guitar.*

Theatre and Performing Arts

Acting 11

Acting 11 takes the skills learned in Drama 8 – 10 and uses them in the development of specific acting technique. The major focus areas of Acting 11 will be:

- Voice and body work
- Character motivation and development
- Script interpretation

Acting 12

Acting 12 is a demanding course which expands on the techniques developed in Acting 11. This course is designed for students who are serious about theatre. The main focus of Acting 12 will be:

- Character motivation and development
- Voice and body work
- Script writing and analysis

Dance 10

This course will provide students with opportunities to express themselves through movement, and gain awareness of the body in relation to space. Students will use the elements of movement (body, space, time, dynamics and relationship) with increasing degrees of refinement, complexity and variety. Some types of dances covered in this course include jazz, modern, bhangra, bollywood, and hip hop. Students will learn choreography and will be expected to create and compose their own dance routines. No previous dance experience is required.

Drama 10

This course is preparation for the intense work of Acting 11. Students in Drama 10 will continue to build on skills in Drama 8 or 9 while covering the following areas:

- Character development and monologues
- Scriptwriting
- Vocal and physical expression

Visual Arts

Art 10

Students will be working towards improving the basics that they have mastered in previous art classes. More advanced techniques will be taught within the drawing, painting, printmaking and three-dimensional areas of expression. New mediums and techniques will be introduced. Students in Art 10 will develop their water colour skills and try their hand at multi-colour lino block printing and mono printing. Artwork will be analyzed in written form by responding to works of art. Students will also become familiar with the great masters in art history in order to develop an appreciation of style, technique and skill.

Art Foundations 11

This is a course for those students who have taken previous art courses and are familiar with many of the mediums and techniques. The emphasis will be developing personal imagery. This course should be considered by any students wishing to pursue a career in any arts-related field. Students will work with two-dimensional and three-dimensional mediums. Students will be encouraged to develop themes in their work and to develop creative imagery and self-expression. Students will continue to learn about famous artists in a historical context.

Art Foundations 12

This course is designed to support those who are considering a career in an arts-related field. Students will be encouraged to further explore their creative expression in the areas of drawing, painting, printmaking and three-dimensional art. Students will learn to critique their work, using the elements and principles of design as a basis for discussion. A comprehensive portfolio will be developed with additions from their Art 11 year. Students will continue to explore and appreciate the works of many artists in a historical context.

Film & Video Studies 11

Film & Video Studies 12

These courses are designed to provide students with knowledge in all areas of video production. The courses cover pre-production skills such as: scriptwriting, storyboarding, casting, the documentary process, interviewing and production planning. Students will also learn production skills such as camera operation, lighting, microphone and audio skills, camera composition and directing. Furthermore, these courses provide students with knowledge in non-linear computer video editing, editing composition and computer graphics and effects programs. The courses are taught in a professionally-equipped facility. The Grade 12 course provides students with credits that can be applied to entrance at SFU.

Visual Media Arts 11 (Digital Photography)

As technology improves and prices decrease, more people are turning to digital cameras to capture their memories forever. This course will cover the basics of photography: how digital cameras work, lighting, composition, rule of thirds, shutter speed and aperture, motion, colour theory, and career options. We will develop skills with different types of photography: portraits, still life, nature, sports, and times of day. Having left the darkroom behind, we will use software to help us “develop” our digital negatives, editing and manipulating them to create professional quality images. We will explore the history of photography and analyze how we have changed our perceptions of who is a photographer and what role they have in capturing history. While examining the role of photography in society, we will discover how images are used to tell a story, to communicate ideas, to share experiences, and to market products and personalities. This is a great course for students who have an interest in photography and want to learn to take better pictures.

Media Services 10

Media Services is intended for students who have good leadership skills and an interest in using media to impact their school environment. The focus of the course will be the creation of media productions within the school. The most prominent of these is the “*Matheson on the Move*” weekly news program, but will also include slide presentations, educational video resource development, technical media support for staff development, and special media events. Students will be required to work at lunch and after school on occasion.

Students who want to take part in media services course must:

- have excellent attendance
- have a C+ or better average

- have excellent work habits
- be committed to work in a team environment to complete projects
- show initiative and self-motivation
- have the ability to work independently with minimal supervision
- provide two written recommendations from teachers
- students may also qualify for this course by special permission from the teacher

Visual Arts and Media 10

This course is an introduction to designing, analysing, and creating images. The focus will be on mixed-media techniques and students will be expected to create a final portfolio showing a range of visual arts mediums. They will have opportunities to work with multiple techniques and processes like digital photography, sketching, collage, contact printing, typography, and Photoshop. Students who excel in these areas may be given the opportunity to work with traditional photographic techniques in the darkroom.

Visual Arts and Media Tech 11

This course builds upon knowledge from Visual Arts and Media 10 and it is expected students will complete portfolios that are compiled according to a theme. Students will be expected to show familiarity with techniques and processes from VAM 10 and learn techniques and processes in digital and darkroom photography that more advanced. Students will be focusing on mixed-media as in VAM 10 and will be working with digital photography, sketching, collage, contact printing, typography, and Photoshop. Students enrolled in VAMT 11 without VAM 10 will be expected to learn VAM 10 basics before proceeding.

Visual Arts and Media Tech 12

This course is intended for students who have mastered VAM 10 techniques and processes in analysing, designing, and creating images. Students will create a portfolio that shows image development in and outside of the classroom. They will have opportunities to work with mixed-media on a portfolio. Project work for VAMT 12 will involve time spent outside of the classroom for image development as students will be expected to keep a visual journal. Students who excel will be given opportunities to work with advanced digital and darkroom technology.

Home Economics

Home Economics courses will provide APPLIED SKILLS credits for graduation.

Cook Training 11A/B/C

Cook Training (also known as Cafeteria) 11A is intended for students interested in the preparation of all types of food for 10 to 250 persons. This includes: soup stocks, soups, sauces, roasting, frying, vegetable preparation, sandwich and salad making, breads and dessert making. Students are exposed to a large commercial kitchen, and will learn to use all types of equipment, and apply safety and accident prevention procedures. Foodsafe Level 1 is taught as part of this introductory program. Cook Training 11B and 11C are a continuation of Cook Training 11A.

Cook Training 12A/B/C

Cook Training (also known as Cafeteria) 12A is an introduction to commercial cooking. Students will receive instruction in making stocks, soups, sauces and desserts; and in roasting, deep frying, vegetable preparation, short order cooking, bread baking, salad and sandwich making and beverages and counter service. Students will develop personal and vocational skills, learn to work in teams and get along with other people, apply safety and accident prevention procedures, learn the elements of kitchen management, and operate and maintain kitchen equipment, including the microwave. This course is designed for greater in-depth training in all aspects of cooking, with emphasis on proper nutrition and the preparation of balanced menus for 10 – 250 people. Cook Training 12B and 12C are a continuation of Cook Training 12A.

Family Studies 10: Families in Society/Interpersonal & Family Relationships

The family unit is not the same today as it was 50 years ago. Explain why families are important and how the family unit evolves to fit into a changing world. Do you always get along with your family members? Explore family dynamics and where you fit into your family. Analyze positive and negative aspects of relationships. What is it like to be in a committed relationship? What are the changes that take place within relationships? Learn effective communication skills and how to be in a healthy, safe relationship.

Family Studies 11: Child Development & Parenting/Adolescence

Is parenthood in your future? Family Studies 11 focuses on pregnancy and child development, from conception through childbirth, infant care and development up to 12 years of age. Analyze the components of a healthy lifestyle for children and the influence parents and caregivers have on children. Explore the issues and challenges of Adolescence, including theories of adolescent growth, self-concept, communication skills, etc.

Family Studies 12: Adulthood/Housing & Living Environments

Transition from Adolescence to Adulthood; understand how people are treated depending on their age. Explore the stages of adulthood and the social and emotional changes that take place. Analyze healthy lifestyles and life changes; reflect on how personal attitudes and values affect lifestyle choices. Learn about the issues and challenges associated with adulthood, like death and dying. In addition, learn about independent living, housing options, and designing your own living space. Prepare yourself for adulthood!

Foods & Nutrition 10

Why do some people study nutrition? After all, you've been eating food all your life. With a little more skill and knowledge you can create plans for preparing healthy, delicious multi-course meals. Dazzle your friends and family with dishes of homemade pasta and wontons. Learn cooking techniques that will make simple meals much more appealing. You'll be amazed that you can produce such appetizing & nutritious food. Evaluation is based on labs, written assignments, tests, and projects.

Foods & Nutrition 11

Take it to the next level! Discover the “whys” and “hows” of creative meal planning and food preparation. Learn how fitness, diet, performance and health are all interrelated. Expand your skills in the area of food preparation and baking. In addition to everyday living, the skills learned in Food Studies 11 may be applied to careers in food service, health care, and hospitality industries. Evaluation is based on labs, written assignments, quizzes and projects.

Foods & Nutrition 12

Is there a “gourmet” in you? Explore new foods and flavors! Discover your creative talents! Learn to manage our “fast-paced” lifestyle by balancing time and resources, special diets, multicultural diversities, local and global food concerns. Develop competency as a consumer and meal manager. Skills learned may be applied in careers to food services, health care and hospitality, as well as everyday living. Evaluation is based on labs, food presentation, written assignments, quizzes and projects.

Textiles 10

Enhance your understanding of clothing construction and design. Go beyond the basics! Explore the use of new and specialty fabrics. Investigate the impact of culture on clothing. Apply the elements and principles of design in creating clothing to suit your body type and style. Accessorize! Learn how to enhance and personalize your clothing image. Develop your skills by exploring the use of sergers and computerized machines.

Textiles 11

Textiles 10 is recommended.

Take your sewing to the next level and combine your skills in the areas of Fine Arts and Applied Skills. Learn textiles fundamentals and processes as well as incorporating the principles of design and elements with your work. Expand your skills with the use of the serger, computerized embroidery machine, and other professional sewing tips. This course is for students who would like to explore wardrobe analysis, coordinating outfits, and fashion designers. Skills learned may be applied to careers in retail marketing, merchandising and everyday living.

Textiles 12

Textiles 11 is recommended.

Fine-tune your skills with fabric and machines; advance your skills in the areas of Fine Arts and Applied Skills. Showcase your stitching and design talents! Personalize your wardrobe through wise choices. Study current fabrics with emphasis on care and construction techniques of difficult fabrics. Learn how to use the basics of tailoring. Expand your skills with the use of the serger, computerized embroidery machine, and other professional sewing tips. Skills learned may be applied to careers in fashion and retail marketing, merchandising and everyday living.

International Languages

French 10

Students will continue to increase their abilities to communicate in French (listening, speaking, reading and writing) in context, achieve positive attitudes about using French and their own abilities as language learners, develop understanding and appreciation of culture, and explore issues and interests using French as the medium of expression. This course is based on exploring the language through a variety of themes such as shopping, protecting the environment, and leisure activities.

French 11

Students will continue to increase their abilities to communicate in French (listening, speaking, reading and writing) in context, achieve positive attitudes about French and their own abilities as language learners, develop understanding and appreciation of culture, and explore issues and interests using French as the medium of expression. This course includes five units of work based on themes such as ethnic foods, advertising, and travel.

French 12

French 12 is a continuation of French 11. There will be an introduction to various literacy genres, further study of more sophisticated grammar, and polishing the student's composition style. The primary objective is to develop the highest possible degree of fluency in order to enable the student to think, write, speak and read the French language.

Punjabi 11

This beginner's course is designed to introduce the students to Punjabi alphabets, basic grammar structures and vocabulary. It also builds skills already acquired in the language. Students will develop communication skills through listening, speaking, reading and writing. Punjabi culture is also explored with emphasis on history, festivals, religion and music. Successful completion of Punjabi 11 provides the minimum language entrance requirement needed for most university programs.

Punjabi 12

Punjabi 12 builds on the skills of Punjabi 11. The focus is on literature, poetry and grammar, with emphasis on novels and short stories. Culture exploration is also an integral part of this course. The objective is to develop the highest possible degree of fluency in order to enable the student to think, read, write and speak the Punjabi language.

Spanish 10

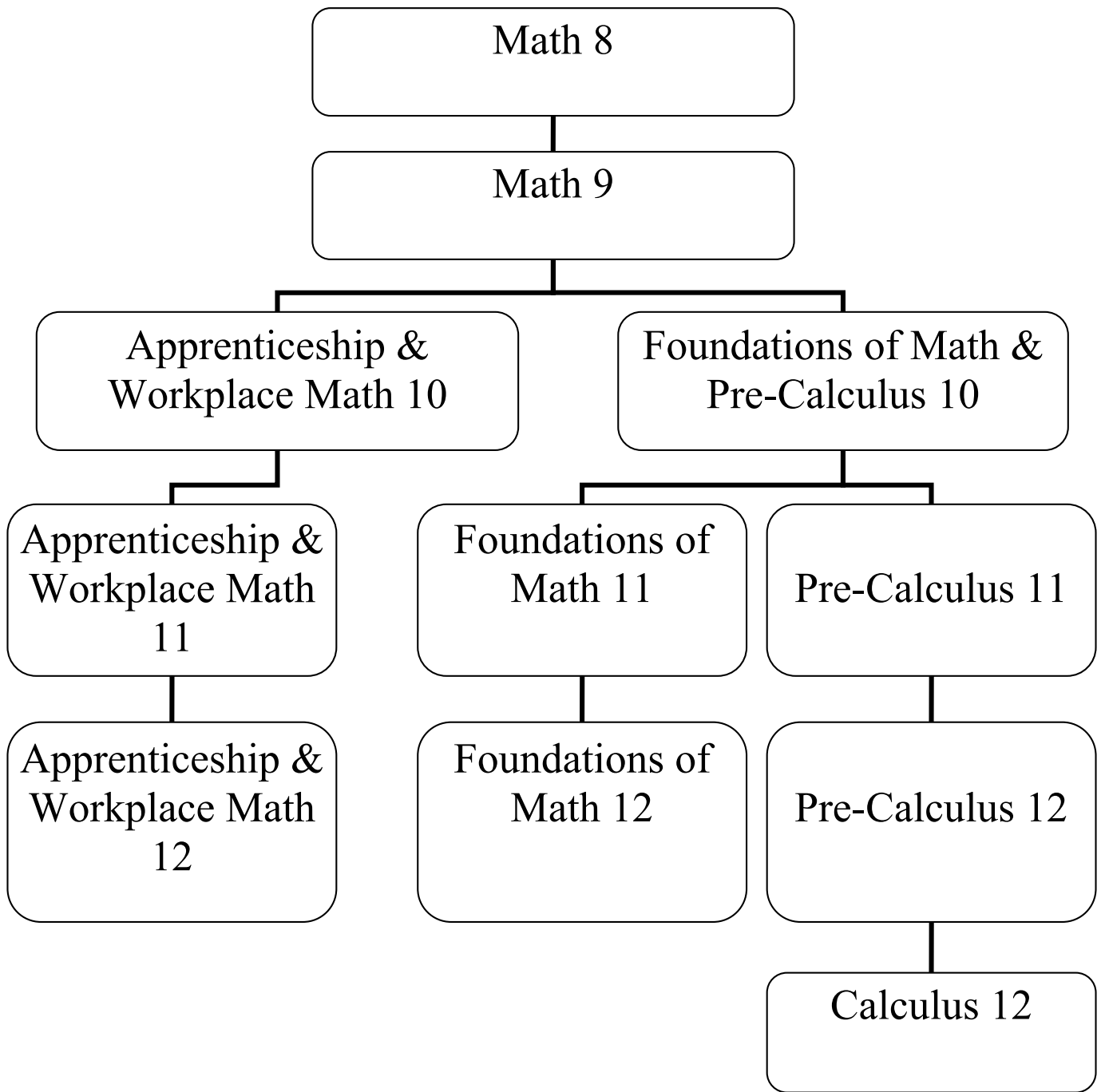
This course is a continuation of the "Avancemos" Spanish program. Course content includes the second half of "Avancemos" textbook. Students will further develop their abilities to communicate effectively in Spanish on a number of topics such as: family, professions, food, clothing, music, films, sports and customs. Along with expanding their conversational skills, students will develop a composition style.

Spanish 11

This course will begin with a brief review of material covered in Spanish 9 and 10. Communication skills will continue to be developed and new grammar structures will be introduced through the "Avancemos" audio-visual program. Students must utilize the "Avancemos" workbook which will be used in both Spanish 11 and Spanish 12. The course content includes the first half of the textbook of "Avancemos".

Spanish 12

This course is a more in-depth look at the basic concepts of Spanish grammar, and introduces many of the fine points necessary to give a degree of polish and perfection to the student's knowledge of the language. The second half of the textbook "*Avancemos*" will be covered, together with the latter part of the "*Avancemos Cuaderno*", which students will have obtained from the Spanish 11 course.



Mathematics

Apprenticeship and Workplace Mathematics 10

This pathway is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force. Topics include unit pricing & currency exchange, earning an income, measurement, surface area & volume, angles & parallel lines, similar figures, and trigonometry of right triangles. This course leads to Apprenticeship and Workplace Mathematics 11. *Students must write the Apprenticeship and Workplace Mathematics 10 government exam worth 20% of their final mark.*

Foundations of Mathematics and Pre-Calculus 10

This pathway is designed to provide students with the mathematical understanding and critical-thinking skills identified for post-secondary studies in the field of Mathematics, Science, Commerce, Social Sciences or Fine Arts. Topics include measurement, surface area & volume, trigonometry, exponents & radicals, polynomials, relations & functions, and systems of linear equations. This course leads to either Foundations of Mathematics 11 or Pre-Calculus 11. *Students must write the Foundations of Math and Pre-Calculus 10 government exam worth 20% of their final mark.*

Apprenticeship and Workplace Mathematics 11

This course is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force. Topics include surface area, volume & capacity measurement, trigonometry, 3D objects, numerical puzzles, finance, algebra, and graphs of data. This course leads to Apprenticeship and Workplace Mathematics 12.

Foundations of Mathematics 11

This course is designed to provide students with the mathematical understanding and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus, such as Social Sciences, Humanities, and Fine Arts. Topics include measurement (rates & scales), geometric reasoning (angles and triangles), non-right triangle trigonometry, logical reasoning, spatial puzzles, statistics (normal distribution, interpretation of statistical data), 2-variable linear inequalities, quadratic functions, and history of mathematics. This course leads to Foundations of Mathematics 12.

Pre-Calculus 11

This course is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus, such as Mathematics, Sciences, Engineering, Medicine and Commerce. Topics include expressions and equations (absolute value, radical, rational), trigonometry (angles in standard position, non-right triangles), absolute value functions, reciprocal functions, quadratic functions and equations, systems of equations and inequalities (including quadratics), and arithmetic and geometric sequences. This course leads to Pre-Calculus 12.

Apprenticeship and Workplace Mathematics 12

This is next level course to Apprenticeship and Workplace 11, designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into some special trades at higher levels or for direct entry into the work force. Topics include measurement, trigonometry, geometric transformations, number puzzles, leasing or buying a vehicle, small business, linear relations, statistics, and probability.

Foundations of Mathematics 12

This is a next level course to Foundations of Mathematics 11, designed to provide students with the mathematical understanding and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus, such as Social Sciences, Humanities, and Fine Arts. Topics include financial mathematics, logical reasoning, set theory, relations & functions, combinatorics, probability, and mathematics research project.

Pre-Calculus 12

This is a next level course to Pre-Calculus 11, designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus, such as Mathematics, Sciences, Engineering, Medicine and Commerce. Topics include function transformations exponential & logarithmic functions, polynomial functions, radical & rational functions, trigonometry, and combinatorics.

Calculus 12

Calculus 12 is designed for students who have a particular interest in mathematics, or who have career aspirations in the fields of Engineering, Medicine, Mathematics, Sciences, Economics, and some Business Ed. programs. Topics include limits, derivatives, application of derivatives, optimization, related rates, integrals, application of integrals, polar coordinates, and parametric functions. Students who plan on registering in a university or college Calculus course are strongly recommended to take this course.

Physical Education

Physical Education 10

The goal of physical education is to develop a positive attitude toward lifelong physical activity. In grade 10, students will continue to develop competencies in a variety of activities. The three major curriculum organizers are: Safety, Fairplay and Leadership. Students will participate in the Lifesaver First Aid course and a certificate can be issued if the cost of the course is paid by the student.

Personal Fitness 10

This course focuses on improving healthy lifestyle practices through graduated walking/running programs, yoga and other non-competitive fitness practices. This course is not a sports based Physical Education class. Students enrolling in and successfully completing this course will meet the graduation requirements for PE 10.

Physical Education 11

The P.E. 11 curriculum focuses on promoting healthy attitudes and regular physical activity as important parts of each student's lifestyle. The curriculum has three major organizers: Personal and social responsibility; Movement and Active living. Students will be exposed to many community-based activities and will participate in the Emergency Level First Aid Course.

Physical Education 12

Themes for this course are sport and leisure pursuits and leadership. Community recreational activities from P.E. 11 will be expanded upon. Students will also be required to perform school and/or community service in a recreational setting. Students will complete their CPR training with the Surrey Fire Department.

Super Fit 11

This course is comprised of five units of study designed to further students' study of physical fitness and its components. Super Fit will focus entirely on cardiovascular fitness, muscular strength and endurance, and flexibility. The course will provide students with an opportunity to utilize their previously learned health and fitness information in a practical setting. This knowledge teamed with in-depth instruction and practical experiences will allow students to achieve personal fitness improvement and cognitive training applications.

Weight Training 11

Students will gain hands-on training techniques, knowledge of principles of training, safety procedures and adaptations to training and supplement use. Students will develop an individual weight training program and conduct the implementation of the plan in reaching personal goals.

P.E. 11/12 Alternative

This course offers students an opportunity to obtain their Gr.11/12 Physical Education credit. Students will participate in physical activities to achieve lifelong fitness. The environment is not team sport based; it is based on movement for health and well being. There will be frequent opportunities to participate in field trips throughout the semester.

* Gr.11 St. John Ambulance Level 1 (required for gr.11)

*a minimum of 10 community hours and CPR course are grade 12 PE requirements.

PE Leadership 10 (Credit for PE 10)

The emphasis of the P.E. Leadership Program is to introduce students to a variety of leadership opportunities in P.E. classes and within the Athletic Program. **The course will run year-long, backed with Planning 10.** The Athletic Director will head the program and serve as the instructor. Students will apply leadership and organizational skills in activities such as: tournament coordination, officiating, lunch-time intramurals, and in the organization of school events. For example, students will receive training in minor officiating and will be expected to commit to a minimum of 20 hours of volunteer service outside of class time to the school's athletic program. Students will be exposed to a variety of sports and games similar to a regular P.E. 10 class, and also have the opportunity to try community based recreational activities.

The course is open to mature, energetic students in Grade 10. Students in Grade 10 will receive credit for P.E. 10. Students who sign up for P.E. Leadership will be required to go through an interview process to determine their suitability for this course. Students interested in future studies in Physical Education at the post-secondary level should take the course.

Students who want to take part in leadership courses must:

- have excellent attendance
- have a C+ or better average
- have excellent work habits
- be committed to work in a team environment to complete projects
- show initiative and self-motivation
- have the ability to work independently with minimal supervision
- provide two written recommendations from teachers
- students may also qualify for this course by special permission from the teacher

PE Leadership 11/12 (Credit for PE 11, PE12)

The emphasis of the P.E. Leadership Program is to introduce students to a variety of leadership opportunities in P.E. classes and within the Athletic Program. The course will run in the first semester only. The Athletic Director will head the program and serve as the instructor. Students will apply leadership and organizational skills in activities such as: tournament coordination, officiating, lunch-time intramurals and in the organization of school events. For example, students will receive training in minor officiating and will be expected to commit to a minimum of 20 hours of volunteer service outside of class time to the school's athletic program. Similar to a regular senior P.E. class, students will be exposed to a variety of sports and games and also have the opportunity to try community based recreational activities.

The course is open to mature, energetic students in Grades 11 and 12. Students in Grades 11 or 12 who wish to be involved in the program will receive credit for P.E. 11 or P.E. 12. Students who sign up for P.E. Leadership will be required to go through an interview process to determine their suitability for this course. Students interested in future studies in Physical Education at the post-secondary level should take the course.

Students who want to take part in leadership courses must:

- have excellent attendance
- have a C+ or better average
- have excellent work habits
- be committed to work in a team environment to complete projects
- show initiative and self-motivation
- have the ability to work independently with minimal supervision
- provide two written recommendations from teachers
- students may also qualify for this course by special permission from the teacher

Science 8

Science 9

Science 10

Biology 11

Biology 12

Chemistry 11

Chemistry 12

Physics 11

Physics 12

Earth Science 11

Science and Technology 11

Science Department

Science 10

Science 10 covers biology, chemistry, physics and earth science. Biology covers ecology and genetics, Chemistry covers Bohr models, classifying reactions, acid/base chemistry and organic/inorganic chemistry. Physics covers radioactivity, and motion. Earth science deals with plate tectonics. Each section will prepare the student for senior science courses. *Students must write the Science 10 government exam worth 20% of their final mark.*

Biology 11

Biology 11 provides a great overview of life starting with single cells and ending with animals with backbones. You will dissect various organisms to develop your lab skills and to help you discover the increasing complexity of life forms. First year biology classes are based on the concepts found in biology 11. It is not recommended to skip Biology 11 in order to fast track your way into Biology 12 or any medical course like nursing, dentistry and pharmacy. Talk to your science department head for more information.

Biology 12

Biology 12 examines in detail all aspects of Human Physiology and Biochemistry. For example: how body systems work; how hormones regulate body function and how organic compounds are formed. You will be able to discover your blood type and blood pressure, plus dissect a fetal pig. Biology 12 leads nicely into first year university Biology and is required for most fields related to medicine. Biology 11 or Chemistry 11 is strongly recommended as a prerequisite, as well as a critical thinking mind.

Chemistry 11

Chemistry 11 covers everything you learned in the chemistry component of Science 10, plus solutions calculations, the Periodic Table trends, atomic structure, mole calculations and organic chemistry (used in Biology 12). You will mix chemicals, build models, form new compounds, test solutions and titrate unknown acids! Many college and university programs have Chemistry 11 as a prerequisite for many areas of study including nursing, medicine, biology, oceanography and pharmacy.

Chemistry 12

This course picks up where Chemistry 11 leaves off. The level of difficulty is very similar to Chemistry 11, but emphasizes in more detail, and explores more “why” questions. You will develop a better understanding of why reactions occur. You will analyze unknown materials using precipitation labs and titrations. Topics include electrochemistry, thermodynamics, solubility, acids, bases and equilibria. Almost all post-secondary science programs require chemistry. Basic chemical knowledge can also be used in many careers including photography, art, geology and x-ray technology.

Earth Science 11

Earth Science 11 is a survey course designed to introduce students to the diverse aspects of earth and space science, and offers applications to the real world. Students will understand the Earth's history, the development of landforms, rocks and mineral identification, and the science of the oceans and the sky. The course includes comparison between our planet and what we know about other planets in the solar system and what the study of astronomy and other space sciences tells us about the development of the universe. Most topics in this course are discussed within a British Columbia/ Canadian context.

Physics 11

How do you prevent an egg from cracking when you drop it from the cafeteria balcony? What do you mean everything is relative? In Physics 11 you will be able to answer these questions as you play with toys like cars and trucks, bounce balls, have fun with the gizmos and drop a number of eggs. You will also study kinematics, dynamics, vectors, trigonometry, relativity, electricity, atomic theory and friction. Basically, if it moves, the movement is studied. Good math skills are necessary.

Physics 12

Physics 12 discovers the wonders of two and three-dimensional space as it explores dynamics, kinematics, vectors, electricity and magnetism. You will finally find a use for the algebra and trigonometry you learned from your math classes. Physics 12 provides a good lead into university physics classes which are required for engineering, medicine and other science programs.

Science& Technology 11

This course meets the Ministry of Education graduation requirements for Science 11, but you need to know that *universities do not accept it for admission to their programs*. Sci & Tech 11 will, however, help you discover the role that science plays in our everyday life. You will study how society, technology and science all work together as you make silly putty, bubble gum, build earthquake proof homes and cardboard race cars. Key topics include health, construction, chemistry, transportation, and yourself.

Humanities 8

Social Studies 9

Social Studies 10

Social Studies 11

Psychology
11

History
12

Geography
12

Law
12

Social
Justice 12

Psychology
12

Philosophy
12

Comparative
Civilizations 12

Social Studies Department

Social Studies 10

Social Studies 10 continues to build upon themes developed in earlier grades and focuses on the development of Canada as a nation during the 19th century, with emphasis on the development of Western Canada. The history and geography of British Columbia are included. Geographic knowledge and skills previously acquired are reinforced and expanded through a study of Canada's economy.

Socials Studies 11

Canadian history from the late 19th century to the present is studied in this course. The growth of Canada as a nation and the impact of two world wars are considered. The students will gain an understanding of the Canadian government system. In the geography section, students examine the growth of urbanization and population patterns, nationally and internationally. *Students must write the Social Studies 11 government exam worth 20% of their final mark.*

Comparative Civilization 12

Comparative Civilization examines the cultural history (ways of life, art, architecture, music, literature, religion, etc.) of world civilizations. Although specific topics will be studied as a class, many projects can be developed by students to suit their own interests. The assignments will vary, including written assignments, group presentations and multi-media project work.

Geography 12

Geography relates human interactions with the physical world. We look at the structure of the earth, the agents in which shape the earth, and the destructive forces of the earth and how these topics affect human settlement and movement. We consider "man" and his environment in regards to resource management, conservation, pollution, and other current concerns.

History 12

This world history course deals with the major events and trends of the 20th Century. It concentrates on the time period between 1919 and 1991, with an emphasis on Europe and North America and their relations to world affairs. These years were defined by the effects of the world wars, the decline of European power, the polarization of the Cold War, the end of the colonial empires, and the fall of communism. These were also years of significant economic, social and technological change. History 12 begins with the Paris Peace Conference of 1919 and ends with the collapse of the Soviet Union in 1991.

Law 12

Law 12 is an introduction to the Canadian legal system with a focus on criminal, civil, family and contract law. Topics of study include policy, the Charter of Rights and Freedoms, arrest, detention, course procedures, parole, the Criminal Code, civil lawsuits, divorce, contracts, and personal injury litigation. Students are expected to actively participate during class discussions, field trips, sessions with guest speakers, and courtroom simulations.

Philosophy 12

Philosophy 12 is a course that challenges students to develop their critical thinking skills. The course begins with the study of "logic". Students will apply their learning in this unit to an examination of major issues in philosophy. Topics will include: What is a person? What is real? Free will, Determinism, and The Meaning of Life. Ultimately, students will be required to take positions and create arguments. In addition to class discussion and debate, students will be expected to express their original ideas and understandings through major papers, presentations and examinations.

Psychology 11

This course is designed to give students an introduction to Psychology. A variety of topics related to the study of human behavior and mental process will be explored. There will be an emphasis on the development of critical thinking skills and objectivity as applied to the study of Psychology. Students will develop these skills by analyzing and evaluating current theories and research, by collaborating with classmates on group projects, and by participating in discussions about a variety of topics relating to human behavior.

Psychology 12

The primary focus of this course is to extend students learning about behavior and mental processes as they relate to personality, stress, coping, interpersonal relationships, and psychological disorders. There is an emphasis on the development of critical thinking skills and collaborative dialogue as applied to the study of Psychology. Psychology 12 also requires students to complete an Independent Research Project and Integrated Lesson Plan on a chosen topic of interest in the field of Psychology.

Social Justice 12

What is social justice? Social Justice is the assurance that the basic human rights of all people are upheld. Examine social justice issues such as racism, homophobia, sexism, poverty, and globalization. This course will offer you the opportunity to look at the causes and consequences of oppression and injustice, both in Canada and globally. Challenge yourself to be an educated, fair and open-minded global citizen! This is a project and research based course. This course can apply towards your GPA calculation for university admission.

Technology Education

Technology Education courses will provide APPLIED SKILLS credits for graduation.

Carpentry & Joinery 11

This course is an advanced hands-on course involving the use of woods and wood composites. Students will solve problems involving the design and construction of teacher-selected and/or student-selected projects. In most programs, students will be expected to design projects and calculate material amounts and costs. The focus of this program is the construction of cabinets and furniture.

Carpentry & Joinery 12

This program involves learning and applying advanced woodworking and design skills to build major projects. The focus of this program is cabinet and furniture construction.

Drafting and Design 10

Mechanical and architectural drafting are covered using both board drawing and CAD. A greater emphasis will be placed upon the use of drafting skills in the areas of modeling and problem-solving. Career exploration may also be included.

Drafting & Design 11

This is an introductory course which covers the same topics outlined in Drafting 10 in a more detailed and complex manner. It may also include perspective drawings, sectioning and modeling. Greater emphasis may be placed on CAD. This course will provide students with a necessary foundation to be able to effectively communicate ideas and designs in many areas of technology.

Drafting & Design 12

This course continues to develop skills learned in Drafting 11. Students will design, draw and understand mechanical and architectural drawings. Greater emphasis may be placed on CAD. This is an excellent course for students interested in engineering, architectural, or construction-related careers.

Mechanics 10

This course provides the basic knowledge of power and energy as it applies to common mechanical devices. A variety of power energies will be investigated and applied in various design/build activities. The course incorporates hands-on and theory. Topics covered include Safety, Fasteners / Hand Tools, Work, Energy, Power, Horse Power, Measurement, Solar, Fluid Power/Hydraulics, External Combustion Engines, Internal Combustion Engines, Mechanical Challenge, Basic Electronics, Basic Electrical Systems.

Metalwork 10

The course is intended as introductory course to develop the students' ability in the use of hand tools and for working and forming metals, while at the same time meeting the prescribed learning outcomes. A primary objective will be to instill in the student, a positive and responsible attitude towards safety in the metalworking shop. An ability to demonstrate specific practical and critical thinking skills as they relate to metalworking will also be encouraged. In addition the student will be challenged to demonstrate an understanding of efficient use of scarce resources.

Metal Fabrication & Machinery 11

This course will build on the knowledge gained in Metalwork 10. There will be more of a focus on using power tools and production processes than was required in previous courses. The student will be expected to consistently demonstrate safe work practices, meet the prescribed learning outcomes and will be expected to produce higher quality work with more precision and

accuracy. Some of the areas of focus, as in MFM 12 will include safety, measurement, tools and equipment, materials, project design and management, and processes. The use of lathe and milling machines, gas, arc and MIG welding, gas and plasma arc cutting equipment, and casting and heat treatment equipment will be required. Evaluation: Continuous evaluation will be maintained throughout the course. Mark breakdown will be 50% practical work and 50% theory.

Metal Fabrication and Machinery 12

The main objective of this course is to offer a combination of theory and “hands on” skills that will prove valuable throughout life and prepare students for entry into many areas of engineering and trades programs offered at universities or colleges. The student will be expected to meet the prescribed learning outcomes and to build on the skills learned in M.F.M. 11. Towards the end of the course, once skill requirements have been met the students will be allowed to design and build projects of their own choosing, after consultation with the instructor. Some of the areas of focus will include safety, measurement, tools and equipment, materials, project design and management, and processes. Acquired skills will include lathe and milling machine practices, gas, arc and MIG welding, gas and plasma arc cutting, casting and heat treatment. Evaluation: Continuous evaluation will be maintained throughout the course. Mark breakdown will be 50% practical and 50% theory.

Woodwork 10

This course encourages students to expand their skills and knowledge and to design and problem-solve using wood and related machinery. Individual design of a project is emphasized.

Leadership

Community Leadership 10

Leadership is everyone's business – it is open to everyone in the school community. Leadership can be demonstrated and learned at all levels of an organization and in your personal life. This course deals with the theory and practice of human leadership. The time in class will be split between classroom instruction, using and applying the basic knowledge of leadership and peer relationships. The students will develop leadership skills and teamwork skills, practice public speaking, plan, promote and run events, run meetings, and work on school and community relations. Students and teachers will assess their progress through a comprehensive portfolio that will contain samples of student work and accomplishments, self, peer and teacher evaluation and analysis of personal leadership styles. This course is designed to:

- Develop positive self-esteem.
- Help individuals become effective leaders and helpers.
- Acquire and use basic organizational and meeting skills
- Develop individual listening and communication skills

Students who want to take part in leadership courses must:

- have excellent attendance
- have a C+ or better average
- have excellent work habits
- be committed to work in a team environment to complete projects
- show initiative and self-motivation
- have the ability to work independently with minimal supervision
- provide two written recommendations from teachers
- students may also qualify for this course by special permission from the teacher

PE Leadership 10 (Credit for PE 10)

The emphasis of the P.E. Leadership Program is to introduce students to a variety of leadership opportunities in P.E. classes and within the Athletic Program. The course will run year-long, backed with Planning 10. The Athletic Director will head the program and serve as the instructor. Students will apply leadership and organizational skills in activities such as: tournament coordination, officiating, lunch-time intramurals, and in the organization of school events. For example, students will receive training in minor officiating and will be expected to commit to a minimum of 20 hours of volunteer service outside of class time to the school's athletic program. Students will be exposed to a variety of sports and games similar to a regular P.E. 10 class, and also have the opportunity to try community based recreational activities.

The course is open to mature, energetic students in Grade 10. Students in Grade 10 will receive credit for P.E. 10. Students who sign up for P.E. Leadership will be required to go through an interview process to determine their suitability for this course. Students interested in future studies in Physical Education at the post-secondary level should take the course.

Students who want to take part in leadership courses must:

- have excellent attendance
- have a C+ or better average
- have excellent work habits
- be committed to work in a team environment to complete projects
- show initiative and self-motivation
- have the ability to work independently with minimal supervision
- provide two written recommendations from teachers
- students may also qualify for this course by special permission from the teacher

PE Leadership 11/12 (Credit for PE 11, PE12)

The emphasis of the P.E. Leadership Program is to introduce students to a variety of leadership opportunities in P.E. classes and within the Athletic Program. The course will run in the first semester only. The Athletic Director will head the program and serve as the instructor. Students will apply leadership and organizational skills in activities such as: tournament coordination, officiating, lunch-time intramurals and in the organization of school events. For example, students will receive training in minor officiating and will be expected to commit to a minimum of 20 hours of volunteer service outside of class time to the school's athletic program. Similar to a regular senior P.E. class, students will be exposed to a variety of sports and games and also have the opportunity to try community based recreational activities.

The course is open to mature, energetic students in Grades 11 and 12. Students in Grades 11 or 12 who wish to be involved in the program will receive credit for P.E. 11 or P.E. 12. Students who sign up for P.E. Leadership will be required to go through an interview process to determine their suitability for this course. Students interested in future studies in Physical Education at the post-secondary level should take the course.

Students who want to take part in leadership courses must:

- have excellent attendance
- have a C+ or better average
- have excellent work habits
- be committed to work in a team environment to complete projects
- show initiative and self-motivation
- have the ability to work independently with minimal supervision
- provide two written recommendations from teachers
- students may also qualify for this course by special permission from the teacher

Peer Mediation, Peer Tutoring

Peer Mediation 11

The general aim of this course is to provide students with skills in communication and mediation, enabling peer counsellors to provide support for their peers at L.A. Matheson. Students will also be involved in a leadership position as they are actively involved in reducing bullying and violence at Matheson. Upon re-entry into the school students who are suspended for fighting or bullying often see peer mediators, who will help these students peacefully resolve their problems.

Peer Tutoring 11, Peer Tutoring 12

Peer Tutors are selected to help other students improve their skills. As a result Peer Tutors should have above average academic standing and enjoy working with and helping other people. Peer Tutors may wish to indicate a preference to work in a specific area, such as academic, computer, P.E., art, cooking or cafeteria, woodwork, music, clothing/textiles.

Students who want to take part in the Peer Tutoring program must:

- be in grades 11 or 12
- have an excellent attendance record
- have excellent work habits
- have good communication and organizational skills
- be willing to help support younger students
- be excellent role models
- maintain a C+ or better GPA

Students who wish to take Peer Tutoring must first fill in an application form available from a counsellor.

Career Education and Co-op Programs

... opens the door to a world of experience that a classroom can never provide

Co-op programs provide opportunities for students, teachers, and employers to cooperate in achieving one very important goal: PREPARATION FOR THE FUTURE

Course and Curriculum Advantages:

- Integration between the subject areas
- Opportunities for lab work/experiments that could not normally be completed within a regular length class
- Opportunities for field experiences that could not otherwise be included. You will not miss work in other classes and have to catch up
- Earn 20 credits for this semester (4 extra credits compared to a regular semester)

Work Experience Advantages:

- Fantastic opportunity to experience a career area that interests you on a first hand basis, to build skills and knowledge, to see and to participate in specialized areas
- Answers can be found: “Is this what I see myself doing in my future?”
- Opens the doors for summer and after school jobs. Puts your foot in the door.

Teacher Advantages:

- Fantastic match of curriculum to teacher background. Each of our CO-OP teachers is a specialist and is able to share his/her excitement and enthusiasm for their course content.
- One teacher for the semester means that it will be easier for you to learn the classroom expectations and marking schemes, the use of criteria and performance rating scales.
- Having only one teacher means awareness. Your CO-OP teacher will be aware of your work load in all your classes for the one semester; therefore due dates, test dates, and homework load can be more easily balanced.

People Related Advantages:

- Opportunities for the development of a team. Peers work together - build a network of relationships, shared experiences and personal growth.

How do I Apply?

- Students can apply during Course Selection in their Grade 10 or 11 year.

Where do I Apply?

- Applications are available at the Career Centre beginning in February 2012

CO-OP PROGRAMS

Business 12

Business Media Development 11
Marketing 12
Career Transitions 12

Work Experience 12A (min 100 hours)
Work Experience 12B (min 100 hours)

Culinary Arts 12

Cook Training 12A
Cook Training 12B
Cook Training 12C

Work Experience 12A (min 100 hours)
Work Experience 12B (min 100 hours)
Career Transitions 12

Humanities 11

English 11
Social Studies 11
Career Transitions 12

Work Experience 12A (min. 100 hours)
Work Experience 12B (min. 100 hours)

Information Technology 11/12

Choose 3 of the following:

- * Information Technology 11 or 12
- * Animation 11 or 12
- * Digital Art & Interactive Web Design 11 or 12
- * Graphic, Magazine and Web Design 11 or 12

Plus: Career Transitions 12
Work Experience 12A (min 100 hours)
Work Experience 12B (min 100 hours)

Math/Science 11

Math 11 Pre-Calculus
Chemistry 11
Career Transitions 12

Work Experience 12A (min 100 hours)
Work Experience 12B (min 100 hours)

Work Experience 12 Co-op - *2 Periods – second semester only

*Two periods are Co-op and the remaining 2 periods are courses of your choice (this is a “half day” Coop). **By taking this Co-op, you are earning 4 extra credits for a total of 20 credits toward graduation....**

Co-op Courses (2 periods):

Career Transitions 12 - 4 credits
Work Experience 12A (min 100 hours) – 4 credits
Work Experience 12B (min 100 hours)- 4 credits

Other Courses (2 periods):

Your choice

LAM On-Line (Open to Grade 11 and 12 students)

Support Blocks for Surrey Connect

Are you a self-disciplined, self-motivated visual learner with strong time management skills? If so, you may want to sign up to take an on-line course at LA Matheson. There are a number of benefits, including:

- a support block with a classroom teacher supporting your learning,
- a distributed learning online teacher supporting your learning, and
- being able to control the pace of your own learning as you move through your online course.

The following are examples of the courses that may be taken through LAM On-Line.

English 10, 11 or 12	Planning 10
English Literature 12	Accounting 11 or 12
Communications 11 or 12	Economics 12
Essentials of Math 10 or 11	French 10, 11 or 12
Principles of Math 10, 11, or 12	Punjabi 11 or 12
Calculus 12	Spanish 10, 11 or 12
Science 10	Socials Studies 10 or 11
Biology 11 or 12	Geography 12
Chemistry 11 or 12	History 12
Earth Science 11	Psychology 11 or 12
Physics 11 or 12	Law 12

For a complete list of course please go to:

<http://www.surreyconnect.sd36.bc.ca/Secondary/Courses/Pages/default.aspx>

Important Note: Marks for on-line courses will not be used to calculate the GPA for Passport to Education Awards.

Counselling Services

The Counselling Department endeavors to assist students to acquire the skills, knowledge and attitudes necessary to:

- Know and appreciate themselves;
- Relate effectively to others
- Develop appropriate educational plans and
- Explore career alternatives

In order to meet these objectives the following services and programs are offered:

Counselling: Individual counselling – Counsellors help students become aware of their own potential, make wise decisions, and deal with the educational, social and personal difficulties that may confront them. A student who wishes counselling assistance may request an appointment with his/her counsellor.

Program Planning: Counsellors and Career Resources Centre staff will assist students with short and long term planning of their educational and career goals. Educational and Vocational/Career Information is imparted to students by the following means: scheduling interviews, offering courses, participating in post-secondary Liaison Days, arranging for guest speakers, arranging student field trips to educational institutions or vocational sites, acquiring and displaying calendars and bulletin board displays, providing vocational interest tests, organizing Career Days, making available night and summer school information.

Peer Counsellors and Peer Mediators: Peer Counsellors and Peer Mediators are also part of our student services team. Peer Counsellors and Peer Mediators are students who have received specialized training in counselling and conflict resolution. Speak to your counsellor if you would like to become a Peer Counsellor or Peer Mediator.

Applications for Post-Secondary Institutions: Counsellors assist students with completing university and community college applications and will inform students about financial assistance and scholarships.

Employment Opportunities: Part-time and summer employment opportunities, as well as volunteer opportunities, are posted in the Counselling and Career Centre.

Tutoring: Counsellors keep a list of senior students who are available to tutor academic subjects. Please see your counsellor to receive help finding a tutor.