

**L. A. MATHESON  
Secondary School**

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**GRADE 9/10/11/12  
Graduation Program Handbook  
2009 - 2010**

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**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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# L.A. MATHESON SECONDARY

## 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.

This booklet has been prepared to give students and their parents or guardians an introduction to the courses available at L.A. Matheson Secondary School. The course descriptions are general in nature and do not outline the total content of each course. These descriptions are intended to guide both students and parents to the most suitable choices for a complete high school graduation. Although every effort is made to keep the material up-to-date, some changes in course offerings and Ministry requirements do occur. Students should check with their counsellors when questions arise.

Effective course planning requires involvement of the student, parent, teacher and counsellor. Each student should make certain that short and long range plans have been thoroughly discussed with the counsellor and with parents or guardians.

It is extremely important that students make appropriate decisions regarding course selection. Both staffing and the school's timetable will be based on course selection requests. Choices should be considered a "ten month" commitment, as opportunities for changes in September will be extremely limited.

<b>Principal:</b>	Ms. J. Henriques
<b>Vice Principals:</b>	A-G Ms. P. De Luca H-O Ms. K. Shier P-Z Mr. M. Brown
<b>Counsellors:</b>	A-E Ms. K. Francis F-L Ms. F. Rostad M-Q Ms. L. Alexander R-Z Mr. M. Orso

## Grade 9 Course Section

### ◆ REQUIRED COURSES – Grade 9

English 9	EN9
Principles of Math 9 OR Essentials of Math 9	MA9 EMA9
Physical Education 9	PE9
Science 9	SC9
Social Studies 9	SS9

### ◆ ELECTIVES – Grade 9

Students will select three electives and two alternate (second choice) courses.

Grade 9 students will move directly into grade 10 level electives. Prior to taking a grade 10 elective in Woodworking, Metalworking, Foods & Nutrition or Textiles, students must have taken Applied Skills 8.

#### French 9 FR9

French 9 builds upon acquired knowledge, skills and attitudes and offers students an excellent opportunity to experience the power of authentic interaction in French. Students increase their abilities to communicate effectively in French (listening, speaking, reading and writing) through exploration of a variety of themes such as travel, fashion, music, and sports.

#### Spanish 9 SP9

This course is designed to introduce the student to basic Spanish grammar structures and vocabulary; and to develop communication skills through listening, speaking, reading and writing. The audio-visual Spanish program, “*Dime Uno*”, provides many varied activities which put the student in a “communicative” situation, and rapidly increasing the student’s ability to speak Spanish. Students may purchase the “*Dime Uno*” workbook that will be used for Spanish 9 and Spanish 10 (the second half of the workbook). At the end of this course, students should be able to communicate effectively on topics such as family, friends, school and leisure activities.

#### Leadership 9 LEAD9

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.

## **Leadership 9 cont'd**

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

## **Power Technology 9**

**PT9**

This course provides the basic knowledge of the development and transmission of power and energy as applied to common mechanical devices. Two and four cycle engines are used to demonstrate the operation, maintenance and overhauling concepts. Students will also be involved in problem-solving activities and projects associated with a variety of energy and power studies. The effect of energy and power choice will be examined to allow students to see the impact on society, natural resources and the environment.

## **Drafting and Design 10**

**TED10**

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.

## **Foods & Nutrition 10**

**FDN10**

Must have credit for ASK8.

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 and nutritious food. Evaluation is based on labs, written assignments, tests, and projects.

## **Metalwork 10**

**TEM10**

Must have credit for ASK8.

The course is intended as an introductory course to develop the students' ability in the use of hand tools 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 be encouraged. In addition, students will demonstrate an understanding of efficient use of scarce resources.

## **Textiles 10**

**TXT10**

Must have credit for ASK8.

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.

**Woodwork 10****TEW10**

Must have credit for ASK8.

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.

**Art 10****VAG10**

Students will be working towards improving the basics that they have mastered in 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.

**Drama 10****DRG10**

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

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

**Media Arts 10 (Photography)****VAM10**

Media Arts 10 is a thorough, hands-on introduction to the basics of photography: good composition, technical aspects of using a manual single lens reflex camera, developing and printing film, and making enlargements. Students will learn how to take different types of photographs, such as portraits, action/sports, still life, and landscape. Creative approaches to making pictures will be encouraged. Darkroom skills, photo analysis, and the history of photography are covered.

**Concert Band 9****MCB9**

Recommended: Band 8 or teacher approval

This is a continuation of Band 8, generally for students in Grade 9 with two years' experience. Students may be expected to perform at local, regional, national or international festivals. Tours have included destinations such as California and Cuba.

**Jazz Band 9****MJB9**

Recommended: Any level Concert Band 8, 9, 10 or 11, or Director's approval. It is recommended the student be enrolled in a concert band in addition to the jazz band.

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.

**Guitar 10 (Beginner)****MGR10**

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

**Business Education 10****BEG10**

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****INT10**

This course is a great opportunity to improve your computer skills so you can do a lot more than just surf the Internet, chat with your friends on MSN, or use 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 easily and quickly, 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 using HTML, create a multimedia slide show, paint and draw some fabulous artwork using graphics programs, use photo editing software to manipulate photos, and maybe even 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. Catch the wave of the future. Technology is the future. Take Computers 10! **This course is intended for students who did not take Information Technology 9.**

**Yearbook 10: Photo Journalism****YCCT10A**

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. While 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.

## ◆ SUPPORT PROGRAMS

### **English as a Second Language**

**ESLA**

The English as a Second Language program enables students whose first language is not English to learn sufficient oral and written English so that they can fully participate in the regular academic program as soon as possible.

### **Learning Support Team Tutorial**

**TUT**

Assistance in the Learning Support Team tutorial is available for those students who are having difficulty understanding the work covered in class, are getting low grades even though they are doing their assignments to the best of their ability, and are having trouble organizing their work. Acceptance into the program is based on need, either through psycho-educational assessment, articulation or consultation with members of the Learning Support Team. The level of assistance is designed to best meet the needs of the student.

The program is flexible and designed to meet the unique needs of the individual student.



## GRADUATION PROGRAM

### 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 <b>or</b> Applied Skills 10, 11 or 12	4 credits
English 11 <b>or</b> Communications 11	4 credits
Social Studies 11*, <b>or</b> Canadian Civics 11 <b>or</b> B.C. First Nations Studies 12	4 credits
Science 11 <b>or</b> 12	4 credits
Mathematics 11 <b>or</b> 12	4 credits
English 12* <b>or</b> 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  
(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*

### **Planning 10**

**PLAN10**

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**

**GT**

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"> <li>• Daily Physical Activity (DPA) Log including 150 minutes per week</li> <li>• Healthy Living Plan (completed in Planning 10)</li> </ul>	<ul style="list-style-type: none"> <li>• 30 hours of work or volunteer experience (paid or unpaid)</li> <li>• Community Connection Reflections</li> </ul>	<ul style="list-style-type: none"> <li>• Transition Plan (long and short term goals)</li> <li>• Attributes of a BC Graduate</li> <li>• Financial Plan</li> <li>• Resume, cover letter and reference letter</li> <li>• Exit Interview</li> </ul>
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

## *English*

### **English 10**

**EN10**

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.

**English 11****EN11**

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****EN12**

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.

**Communications 11****COM11**

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****COM12**

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.

**Writing 12****WR12**

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.

**English Literature 12****LIT12**

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.

# *Mathematics*

## **Principles of Mathematics 10**

**MA10**

Principles of Math 10 continues to develop the five basic strands of mathematics, with a more formal approach. Topics covered include real numbers, number patterns, polynomials, rational expressions and equations, relations and functions, coordinate geometry, measurements, trigonometry, probability and statistics. It is recommended those students that have less than 60% in Principles of Math 9 discuss their course selection carefully with their math teacher. Students must write the Math 10 government exam.

## **Essentials of Mathematics 10**

**EMA10**

Essentials of Mathematics 10 is for students who intend to meet their mathematics requirement for graduation with Essentials of Mathematics 11 and to enter the work force upon graduation. This course emphasizes the use of math concepts and skills in consumer and trade applications. Students must write the Essentials Math 10 government exam.

## **Principles of Mathematics 11**

**MA11**

Principles of Mathematics 11 continues the development of the five basic strands of mathematics with a formal approach. Topics covered include systems of linear equations and linear inequalities, quadratic functions, quadratic and polynomial equations, functions, circle geometry and coordinate geometry. It is recommended that students who have less than 60% in Principles of Math 10 discuss their course selection carefully with their math teacher.

## **Essentials of Mathematics 11**

**EMA11**

Essentials Math 11 will help prepare students for the demands of the workplace and will help students develop a more sophisticated sense of numeracy while completing their graduation requirements.

## **Principles of Mathematics 12**

**MA12**

Designed for students who have a particular interest in mathematics, or who have career aspirations in the fields of engineering, mathematics, the sciences, economics, and some business programs. Topics covered include transformations, conics, logarithms, trigonometry, sequences and series, combinatorics, probability and statistics. The students will be expected to use a graphing calculator.

## **Calculus 12**

**CALC12**

Calculus 12 is designed for students who have a particular interest in mathematics, or who have career aspirations in the fields of engineering, mathematics, the sciences, economics, and some business programs. Topics covered 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.

## *Science Department*

### **Science 10**

**SC10**

Science 10 covers biology, chemistry, physics and earth science. Biology covers reproduction and genetics, Chemistry covers Bohr models, classifying reactions, acid/base chemistry and organic/inorganic chemistry. Physics covers radioactivity, kinetics. Earth science deals with plate tectonics. Each section will prepare the student for senior science courses. Students must write the Science 10 government exam.

### **Biology 11**

**BI11**

Biology 11 provides an overview of life from single cells to animals with back bones. Students will examine both externally and internally: snakes, rats, turtles, worms, amoeba, algae, squid and grasshoppers.

### **Biology 12**

**BI12**

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.

### **Chemistry 11**

**CH11**

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**

**CH12**

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 equilibriums. 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.

### **Physics 11**

**PH11**

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.

**Physics 12****PH12**

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****SCT11**

This course meets the Ministry of Education graduation requirements for Science 11 and will help you to discover the role science plays in our everyday life. As you build towers, sail tin foil boats, participate in physics Olympics and many more activities, you will be studying how society, technology and science all work together. Key topics include health, buildings, computers, transportation, and forestry.

**Earth Science 11****ESC11**

Earth Science 11 will study space, rocks, geological structures, weathering, erosion, fossils, earthquakes, volcanoes and oceanography. Earth Science 11 is a great stepping stone for Geography 12 or Geology 12. Great scholarship potential exists in resource management and ecology if you continue in Earth Science.

**Geology 12****GEO12**

The Geology 12 Program offers relevant and practical science that has important applications in the real world. Through the investigation of geologic processes, students will become aware of their role as custodians of our unique and fragile planet and develop an appreciation of the impact of human activities on both local and global environments. Students will be given opportunities to apply their knowledge of geologic processes to local concerns.

## ***Social Studies Department***

**Social Studies 10****SS10**

Social Studies 10 continues to build upon themes developed in earlier grades and focuses on the development of Canada as a nation, 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****SS11**

Canadian history from the late 19<sup>th</sup> century to the present is studied in this course. The growth of Canada as a nation and her struggle for self-government 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.

**Philosophy 12****YPHR12A**

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.

**Comparative Civilization 12****CCN12**

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.

**History 12****HI12**

This world history course deals with the major events and trends of the 20<sup>th</sup> Century. It concentrates on the time period between 1919 and 1991, with an emphasis on the West and its relation 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 emergence of a new era. 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****LAW12**

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, court 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.

**Geography 12****GEO12**

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.



## *Modern Languages*

### **French 10**

**FR10**

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**

**FR11**

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**

**FR12**

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.

### **Spanish 10**

**SP10**

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**

**SP11**

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 "Dime Dos" audio-visual program. Students must purchase the "Dime Dos" workbook which will be used in both Spanish 11 and Spanish 12. The course content includes the first half of the textbook of "Dime Dos" (approximately 12 lessons).



## Spanish 12

SP12

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 "*Dime Dos*" will be covered, together with the latter part of the "*Dime Dos Cuderno de Ejercicios*", which students will have purchased for the Spanish 11 course.

## Punjabi 11

PUN11

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

PUN12

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.

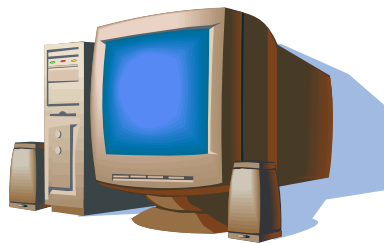
## ***Business Education Department***

*Business Education courses will provide APPLIED SKILL credits for graduation.*

## Business Education 10

BEG10

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**

**INT10**

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. Catch the wave of the future. Take Computers 10! **This course is intended for students who did not take Information Technology 9.**

## **Computer Studies 11: Web Design and Game Programming**

**ICTX11**

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. No experience with computers is necessary. **Note: This course is open to students in grades 10, 11, and 12.**

## **Computer Studies 12: Website Design, Animation and Game Programming**

**ICTX12**

This course builds on the material introduced in the Information Technology 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. Completion of ICTX11 is a mandatory pre-requisite for this course. **Note: This course is open to students in grades 11 and 12.**

## **Computer Independent Studies 12**

**IDS12A**

*(This course does not provide Applied Skills credits)*

If you have completed the grade 12 level course in a subject area, or you have special interest in computer studies, game design, animation, photo editing, graphic design, or web design, you can work with a teacher in the business education department to develop your own unique course. Although you will be required to complete assignments in certain “core” areas, lots of flexibility will be given to allow you to pursue an area of special interest. This is your opportunity to further develop your expertise in an area in which you already excel.

**Accounting 11****AC11**

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.

**Accounting 12****ACC12**

This hands-on, computer accounting course uses Quickbooks and Excel 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. Accounting 11 and 12 can help you receive advanced credit at Kwantlen College.

**Marketing 12****MK12**

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. **Note: This course is open to students in grades 11 and 12.**

**Graphic, Magazine, and Web Design 11****YCCT11D**

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****YCCT12D**

This course builds on the skills gained in YDTP11 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

## **Graphic, Magazine and Web Design 12 cont'd**

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.

### **Digital Art, Digital Photography, and Interactive Web Design**

**ICTM11**

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**

**ICTM12**

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**

**ENT12**

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.

### **Business Computer Applications and Data Management 12**

**DM12**

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!

## ***Fine Arts Department***

*Fine Arts courses will provide FINE ART credits for graduation.*

### **Art 10**

**VAG10**

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**

**AF11**

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**

**AF12**

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.

### **Drama 10**

**DRG10**

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

### **Acting 11**

**TPA11**

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:

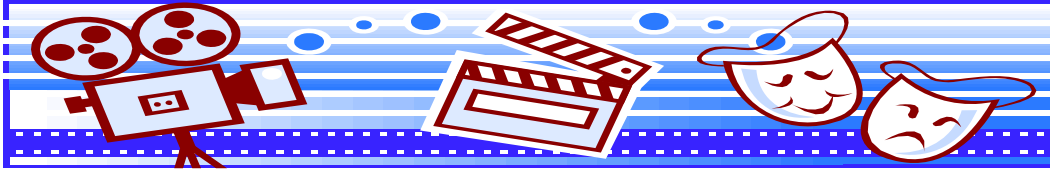
- Voice and body work
- Character motivation and development
- Script interpretation

## Acting 12

TPA12

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



## Concert Band 10

MCB10

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

IMCB11

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

IMCB12

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

MJB10

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

IMJB11

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****IMJB12**

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 (Beginner)****MGR10**

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 required to provide their own guitar.

**Guitar 12 (Intermediate / Advanced)****IMG12**

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 required to provide their own guitar.

**Media Arts 10 (Photography)****VAM10**

Media Arts 10 is a thorough, hands-on introduction to the basics of photography: good composition, technical aspects of using a manual single lens reflex camera, developing and printing film, and making enlargements. Students will learn how to take different types of photographs, such as portraits, action/sports, still life, and landscape. Creative approaches to making pictures will be encouraged. Darkroom skills, photo analysis, and the history of photography are covered.

**Media Arts 11 (Photography)****VAMT11**

Photography 11 builds on the skills developed in Introductory Photography. It begins with a review of composition and technical skills. Assignments are aimed at refining camera skills, extending knowledge of the possibilities of photography, and developing personal vision. Emphasis will be placed on creativity and on a high level of image quality. New skills and equipment may include telephoto and close-up lenses, advanced darkroom techniques, colour photography, and digital cameras. Written work will be required in analyzing images, researching media artists, and/or analyzing the effects of various media.

Students who have an interest in photography as a career should make their interest known to the instructor at the beginning of the course. Portfolio preparation will be included for such students.

## **Media Arts 12 (Photography)**

**VAMT12**

This advanced course in photography builds on the skills developed in Photography 11. The main emphasis will be on developing the creative vision of the student, and increasing the consistency of photographic results. New techniques will include advanced darkroom, camera, digital and lighting skills.

Assignments will provide opportunities to experiment, and to create original photographic art. The student will be involved in setting his/her own direction and following through with an artistic plan. This will require developing an idea for an image or image series, refining the concept, planning the process, dealing creatively with problems, and creating the final product.

This course is particularly suitable for students with an interest in photography as a career, or who have an interest in using the camera for creative self-expression. A final portfolio presentation will be required.

### **Animation 11**

**YCCT11C**

(This course gives 2 APPLIED SKILL credits and 2 FINE ART credits)

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**

**YCCT12C**

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.

### **Yearbook 10: Photo Journalism**

**YCCT10A**

### **Yearbook 11: Photo Journalism**

**YCCT11A**

### **Yearbook 12: Photo Journalism**

**YCCT12A**

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.

**Film & Video Studies 11**  
**Film & Video Studies 12**

**DFT11**  
**DFT12**

(This course gives 2 APPLIED SKILL credits and 2 FINE ART credits)

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.

### ***General Interest Courses***

**Peer Mediation 11**

**YIPS11B**

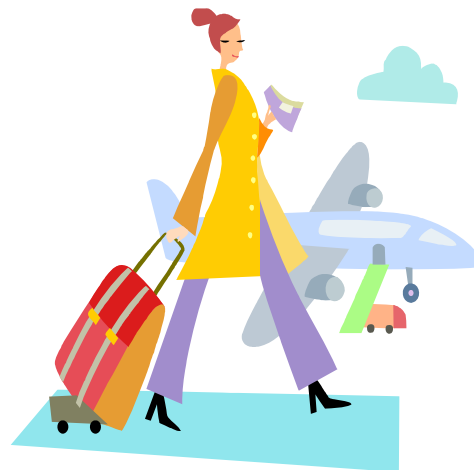
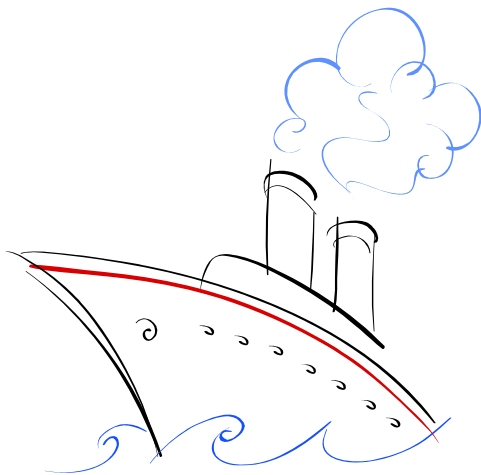
The general aim of this course is to provide students with skills in communication and mediation, enabling peer counsellors to provide support for their peers at L.A. Matheson. Students will also be involved in a leadership position as they are actively involved in reducing bullying and violence at Matheson. 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.

**Tourism 12**

**TRM12**

*(This course is open to grade 11 and 12 students)*

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: SuperHost Service Across Cultures and SuperHost Japan. All certificates are useful for current jobs and future career opportunities. Knowledge, skills, and attitudes in interpersonal relationships continue to be developed.



## ***Physical Education***

### **Physical Education 10**

**PE10**

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: Personal and Social Responsibility; Movement and Active Living. Students will participate in the Lifesaver First Aid course. The cost of certification will be covered through the course fee.

### **Community Leadership 10**

**YCPA10B**

Leadership is a skill that you use in your personal, family and community lives and is looked for by today's employers. Leadership can be demonstrated and learned at all levels of an organization and in your personal life. The theme of the course is physical fitness. Students will study various concepts and skills related to leadership and apply them to promote physical activity and healthy living within the school community. Students will develop advanced leadership and teamwork skills, practice public speaking, plan, promote, and run events (athletic tournaments, lunch-time intramurals), learn to run meetings, and work on school and community relations. Students will also reflect on their own leadership throughout the course. Students will be required to complete a minimum of 20 volunteer hours within the Athletics program at the school as a scorekeeper, or referee.

### **Physical Education 11**

**PE11**

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**

**PE12**

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 be required to provide transportation to off-site activities. Students will complete their CPR training with the Surrey Fire Department.

### **Super Fit 11**

**YHRA11B**

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****YHRA11C**

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.

***Technical Education / Applied Skills***

*Technical Education courses will provide APPLIED SKILL credits for graduation.*

**Family Studies 12****FM12**

*(This course is open to grade 11 and 12 students)*

Students will examine the interactive nature of the self, family and society, from the adult point of view. Investigate the dynamics of relationships, lifestyles and community. Explore the impact of future trends – how human interaction is affected by changing societal, economic and technological conditions. You will gain knowledge, skills and attitudes that can be used to pursue careers in social sciences and human services.

**Drafting and Design 10****TED10**

Must have credit for ASK8.

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****DD11**

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****DD12**

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.

**Foods & Nutrition 10****FDN10**

Must have credit for ASK8.

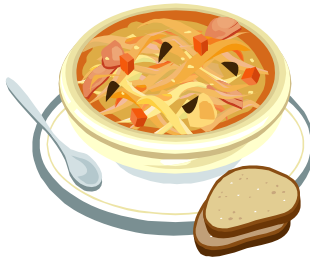
Why do some people study nutrition? After all, you've been eating food all your life. With a little more skill and knowledge you can create plans for preparing healthy, delicious multi-course meals. Dazzle your friends and family with dishes of homemade pasta and wontons. Learn cooking techniques that 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****FDN11**

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****FDN12**

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.

**Metalwork 10****TEM10**

Must have credit for ASK8.

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****MFM11**

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**

**MFM12**

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.

## **Textiles 10**

**TXT10**

Must have credit for ASK8.

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**

**TXT11**

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**

**TXT12**

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.

## **Woodwork 10**

**TEW10**

Must have credit for ASK8.

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.



## **Carpentry & Joinery 11**

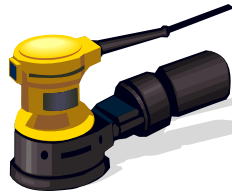
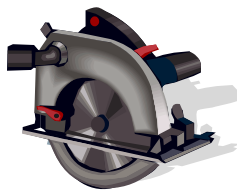
**CJ11**

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**

**CJ12**

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.



## **Cook Training 11A/B/C**

**CKT11A/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**

**CKT12A/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.

# CAREER EDUCATION

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

**An opportunity for students, teachers, and employers to co-operate in achieving one very important goal: PREPARATION FOR THE FUTURE**

## Co-op Advantages

### 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

### 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, share experiences and growth.

# L.A.MATHESON SECONDARY CO-OP PROGRAMS

## Humanities

English 11	Work Experience 12A (min. 100 hours)
Social Studies 11	Work Experience 12B (min. 100 hours)
Career Transitions 12	

## Science

Biology 12	Work Experience 12A (min 100 hours)
Chemistry 11	Work Experience 12B (min 100 hours)
Career Transitions 12	

## Math/Science

Math 11E	Work Experience 12A (min 100 hours)
Science and Technology 11	Work Experience 12B (min 100 hours)
Career Transitions 12	



## Culinary Arts

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

## 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
- \* Desktop Publishing for Business Applications 11 or 12

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

## **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>

# 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.