

ABORIGINAL COOKING 12 (4 credits)

In this course students will learn about the local history of Aboriginal foods and learn basic cooking techniques and cooking terminology. They will also learn fusion cooking with Aboriginal products.

ABORIGINAL CARVING 12 (4 credits)

The focus of this course is to give students knowledge about popular types of wood and basic wood carving terminology. They also gain hands-on training in areas such as using wood carving tools and woodworking safety. Topics of study include carving principles, wood carving skill development, time efficient wood carving strategies, design and development processes, and tool sharpening techniques. Aboriginal students will have priority for registration in this course.

ACCOUNTING 11 (4 credits)

An understanding of basic accounting is essential for anyone involved in business. In this blended class a number of accounting procedures such as: recording transactions, preparing financial statements, setting up a chart of accounts and bank reconciliations will be taught. Accounting 11 meets the Math 11 requirement for the BC Adult Graduation Program.

ANATOMY & PHYSIOLOGY 12 (4 credits)

Anatomy & Physiology 12 focuses on cellular processes and human anatomy, allowing students to develop an interest in and an understanding of science by seeing how the diverse body systems are integrated to maintain homeostasis. The order of learning outcomes follows a sequence from cell structure and simple biochemical processes to the organ systems themselves.

ANATOMY & PHYSIOLOGY 12 ONLINE (4 credits)

This course concentrates on cellular processes and human anatomy. It is a challenging, fast-paced course containing a great deal of interesting and exciting information designed to prepare students for the standards and content of university-level Biology and Biochemistry. The online course is hosted entirely on the Internet, so can be easily accessed from anywhere. Students will design a schedule to maintain a good pace and successful completion. There are great animations and videos to help with the learning process.

**ART METAL and JEWELRY 12 (4 credits)**

Students will be casting silver jewelry by using the lost wax method. The wax molds used are premade but can be customized. The cost may vary depending on the number of pieces and amount of silver used. This is a hands on course.

AVIATION EXPLORATIONS 12 (4 credits)

Interested in aviation? Want to find out more about exciting career opportunities for pilots, maintenance engineers, air traffic controllers, flight attendants or just aviation in general? Aviation Explorations 12 is a survey course designed to introduce students to the aviation industry and learn the terms necessary to feel confident seeking answers to career questions that are important to them. Topics include history of flight, airframes and powerplants, theory of flight, meteorology, navigation, air law and safety management. YTM12A includes class lectures, self-directed learning, in-class hands-on projects, field trips and guest speakers.

BC FIRST PEOPLES 12 (4 credits)

BC First Peoples 12 focusses on the diversity, depth and integrity of the cultures of British Columbia's Aboriginal peoples. In emphasizing the languages, cultures and history of the First Nations peoples, the course addresses an important part of the history of BC. The course provides an opportunity to acquire knowledge and understanding of traditions, history and the present reality of BC Aboriginal peoples, as well as a chance to consider future challenges and opportunities. BC First Peoples 12 addresses the richness and diversity of First Nations languages and cultures by exploring them within their own unique contexts, and helps develop an appreciation and respect for the similarities among the differences between the diverse cultures of the world.

**BUSINESS 12 (4 credits)**

Finding a job is hard...enjoying a job is sometimes even harder. If you are a hard-working and determined person, starting your own business is an option *and an opportunity*. Learn how to take your own unique idea for a product or service that currently does not exist in the market place and turn it into a lucrative business. (not offered this school year)

CAREER LIFE CONNECTIONS 12 (4 credits)

Students will continue to explore a variety of learning outcomes that are directly relevant to their future personal wellness, living arrangements, financial planning and career pathways. Career Life Connections will invite students to consider the impact of their personal and career choices on themselves and others. All students will prepare and present a Capstone project where students will reflect on a personal passion or interest, and share how they have grown and learned in the core competencies and as a global citizen. Although the majority of the course is done online, regular meetings with the teacher will need to be done during the scheduled course time.

CAREER LIFE EDUCATION 10 ONLINE (4 credits)

Finding a balance between work and personal life is essential to good physical and mental health. A network of family, friends and community members can support and broaden your career awareness and their options. You will learn how to prepare to be a lifelong learner who can adapt to changing career opportunities in today's world. The global economy affects your personal, social and economic life and their prospects. Therefore, effective career planning will consider both internal and external factors. Successful career and education paths require skills in planning, evaluating, and adapting.

CAREER LIFE EDUCATION 12 ADULT (4 credits)

This course is only available to adult students who are enrolled in the BC Adult Graduation Diploma. Students will meet the required learning outcomes for this course which include some of the following key learning outcomes: Identify the course and exam requirements as well as ways of earning credits in the BC Adult Graduation Program. Develop a personal education and career plan to support the achievement of education and career goals. Demonstrate financial literacy related to budgeting skills, planning for transition from secondary school, and knowledge about credit and debt. Evaluate the potential effects of an individual's health-related decisions on self, family, and community.

CHEMISTRY 11 (4 credits)

Students will learn about atomic theory, classification of matter, the mole, chemical bonding and reactions, the periodic table and organic chemistry. There is also an emphasis on acquiring lab skills.

CHEMISTRY 12 (4 credits)**Prerequisite: Chemistry 11**

Students will extend the knowledge gained in Chemistry 11 to study reaction kinetics, energy changes and equilibrium during reactions, solubility, acid base equilibrium, oxidation-reduction reactions, and electrochemistry. Laboratory work is included in this course.

CHILD DEVELOPMENT AND CAREGIVING 12 (4 credits)

Child Development and Caregiving 12 will be offered in the winter semester (January—April). If you are planning a career working with children, as an early childhood educator or a daycare provider, this class will give you some basic knowledge about the critical early years. Topics include: the early years, adolescent growth and development, parenting issues and strategies, and family relationships.

COMPARATIVE CULTURES 12 (4 credits)

This class explores culture, starting with the idea that understanding our own culture helps us understand the cultures and cultural expressions of others. Physical and human geography factors will be examined as well as historical and current events. Topics include elements of culture and cultural expression, systems of power, authority and governance, and conflict between cultures. For the final assignment, students complete a self-directed project comparing two cultures of their choice.

COMPOSITION 11 (4 credits)**Prerequisite: English 10**

Composition 11 is designed to support students as they refine, clarify, and adjust their written communication through practice and revision. Students will read and study compositions by other writers and be exposed to a variety of styles as models for the development of their writing. The course provides opportunities for students to study, create, and write original and authentic pieces for a range of purposes and real-world audiences. They will expand their competencies through processes of drafting, reflecting, and revising to build a body of work that demonstrates expanding breadth, depth, and evidence of writing for a range of situations. They will develop confidence in their abilities as they consolidate their writing craft.

DRAFTING & DESIGN 12 (4 credits)

Using various industry recognized drafting software, this introductory course will present students with the basics of Computer Aided Drafting and Design, as well as covering some fundamental principles of good mechanical and architectural design. Students must be prepared to install required (free) software on their home (PC) computer. (not offered this school year)

**DIGITAL PHOTOGRAPHY AND VIDEO 12 (4 credits)**

Students will develop a basic knowledge related to 2D digital photo design, and learn how to use a digital camera to capture an image and use software to design and compose an original digital document. They will develop presentations of their photographs and designs using slides and a personal website. Students will also develop a basic understanding of the processes and tools involved in digital video production—from the pre-production stages where students will learn the use of a digital camera and various lighting techniques to storyboarding and directing, to the post-production where students will use



software to develop a critical eye. As well, students will discuss a variety of new technologies and analyze new software, procedures and policies.

E-COMMERCE 12 (4 credits)

E-Commerce or Electronic Commerce is a methodology of modern business, which addresses the need of business organizations, vendors and customers to reduce cost and improve the quality of goods and services while increasing the speed of delivery. E-commerce refers to the paperless exchange of business information

ENGLISH LITERACY FOUNDATIONS [Levels 3-8] (no credits)

In Foundations levels 3-8, students will work on developing the literacy skills needed to allow for success in regular high school classes. Emphasis will be placed on developing listening and speaking skills, and on the writing process: from sentence to paragraph/essay structure to revising and editing. Students will study a range of literature including non-fiction articles, print and visual media, poetry and literary fiction. **Please note: completion of an LEC English Assessment is required prior to registration in an English Literacy Foundations course.**

ENGLISH 10 (CMPS/NMD10) 4 credits)

This course is designed for school-aged students who need English 10 to graduate. Students learn to communicate effectively in written, spoken and visual forms, and analyze literature, the mass media and various informational / technical materials.

**ENGLISH STUDIES 12 (4 credits)****Prerequisite: Composition 11**

This course builds on and extends students' previous learning experiences in ELA and EFP 10 and 11 courses. It is designed for all students and provides them with opportunities to refine their ability to communicate effectively in a variety of contexts and to achieve their personal and career goals, think critically and creatively about the uses of language, and explore texts from a variety of sources. This helps deepen their understanding of themselves and others in a changing world, gain insight into the diverse factors that shape identity, appreciate the importance of self-representation through text, contribute to Reconciliation by building greater understanding of the knowledge and perspectives of First Peoples, and expand their understanding of what it means to be educated Canadian and global citizens

ENGLISH STUDIES 12 ONLINE (4 credits)**Prerequisite: Composition 11**

This course will provide opportunities for personal and intellectual growth through speaking, listening, reading/viewing, and writing/representing. Developing confidence in these skills will empower students to find meaning in the world around them and participate fully in all aspects of society. To that end, they will study a variety of information texts, short stories and poems as well as a novel and a play. There are also optional online lessons that will help them improve their grammar and writing. Students should only take this online course if they are already confident in their reading and writing skills and wish to work independently.

GEOGRAPHY 12 (4 credits)

Geography is the study of patterns in the earth, in nature and in human settlement. Students will be introduced to the studies of the earth's surface and tectonic processes, gradational processes, weather and climate, the biosphere, energy, managing the environment and topographic mapping. Throughout this course, students will gain insight into the changing nature of the world around us and learn to be conscientious, responsible global citizens. (not offered this school year)

WORLD HISTORY 12 (4 credits)

Students in World History 12 learn modern world history from 1919 to 1991. Special emphasis is placed on the rise of totalitarianism, World War II, the Cold War, decolonization and the rise of the 'Third World'.

I.D.E.A. 12 (4 credits)

The *I.D.E.A. (Innovation, Design, Entrepreneurship, Altruism) – ENT 12* course is modelled off of start-up accelerators and post-secondary entrepreneurship programs for students. The purpose of this course is to provide the real world experiences of entrepreneurs, equip youth with entrepreneurial thinking, and to provide connections to local industry professionals to be the next generation of entrepreneurial leaders

LAW STUDIES 12 (4 credits)

Do you want to know how to analyze blood splatter evidence? If you are interested in CSI and criminal forensics, this class may be for you. Topics include: Canadian criminal law, as well as laws related to civil and family issues. This course provides a broad grounding in Canada's legal system.

LIFE SCIENCES 11 ONLINE (4 credits)

In Life Sciences 11 students will learn about the ecology, diversity, biochemistry and evolution of plants, animals and microbes.

LITERACY FOUNDATIONS INFORMATION AND COMMUNICATIONS TECHNOLOGY (no credits)

This course is intended for students who have little or no experience with computer operations or keyboarding. The aim of this course is to help students develop the knowledge and skills needed to be successful in a range of Information and Communications Technology courses at the Grade 11 and 12 levels.

MATH BRIDGE-LEVEL 5 (no credit)

This course introduces topics such as: numbers and number operations with integers, decimals and fractions; ratios, proportions and percent; algebra, including exponents; shapes, including area and volume; statistics and probability. Students successfully completing Math Bridge Level 5 will be ready for Math Bridge Level 6. An assessment will be done at the beginning of the course to see at what level each student should be placed.

MATH BRIDGE LEVEL 6 (no credit)

This course builds on topics covered in Level 5 such as: numbers and number operations with integers, decimals and fractions; ratios, proportions and percent; algebra, including exponents; shapes, including area and volume; statistics and probability. Students successfully completing Math Bridge Level 6 should be ready to enroll in Foundations of Math 11 or Foundations and Pre-Calculus Math 10. An assessment will be done at the beginning of the course to see at what level each student should be placed.

MATH 10, WORKPLACE (4 credits)

Topics include: Working with money, earning an income, measurement, parallel lines, transversals & angle measurement, similar figures, trigonometry. The next math course for students who successfully complete WPM 10 is Math 11, Workplace.

MATH 10, FOUNDATIONS & PRE-CALCULUS (4 credits)

Topics include: Radicals/number systems, trigonometry, linear equations, solving linear systems, quadratics, probability/financial literacy. The next math course recommended for students who successfully complete FMP 10 is either Foundations of Math 11 or Pre-Calculus 11.

**MATH 11, WORKPLACE (4 credits)**

The WPM 11 course consists of topics such as: income and debt, interest, statistics, measurement, word problems, income tax and probability.

FOM 11/12 AND PRE-CALC 11/12 REQUIRE A GRAPHING CALCULATOR (TI83+, 84 OR 84+)**MATH 11, FOUNDATIONS (4 credits)**

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. Topics include: logical reasoning, geometry/trigonometry, statistics, relations and functions, and measurement. No prerequisite courses are required, but having Math 10 skills or equivalent is highly recommended.



MATH 11, PRE-CALCULUS (4 credits)

This course is strongly recommended for students who are planning on pursuing post-secondary studies in math, engineering or the physical sciences. Topics include: sequences and series, trigonometry, quadratic relations, radical, rational, absolute value and reciprocal functions, inequalities and systems of equations.

MATH 11, PRE-CALCULUS ONLINE (4 credits)

This course is strongly recommended for students who are planning on pursuing post-secondary studies in math, engineering or the physical sciences. Topics include: sequences and series, trigonometry, quadratic relations, radical, rational, absolute value and reciprocal functions, inequalities and systems of equations.

MATH 12, FOUNDATIONS (4 credits)**Prerequisite: Math 11, Foundations**

Foundations of Math 12 provides students with a practical understanding of mathematical concepts as they relate to real-life applications. Topics that will be covered include financial applications with investing and borrowing money, scenarios involving arrangements of objects and probability, applications using exponential and logarithmic functions, applications using trigonometry, concepts with polynomial functions and logic and reasoning problems.

MATH 12, FOUNDATIONS ONLINE (4 credits)**Prerequisite: Math 11, Foundations**

Foundations of Math 12 provides students with a practical understanding of mathematical concepts as they relate to real-life applications. Topics that will be covered include financial applications with investing and borrowing money, scenarios involving arrangements of objects and probability, applications using exponential and logarithmic functions, applications using trigonometry, concepts with polynomial functions and logic and reasoning problems. It is important and highly recommended that a student has Foundations of Math 11 before taking this course. This course is hosted online, therefore internet access is required. Material is learned through online video lessons and animations while a teacher is available to support your learning.

**MATH 12, PRE-CALCULUS (4 credits)****Prerequisite: Math 11, Pre-Calculus**

This course is strongly recommended for students who are planning on pursuing post-secondary studies in math, engineering or the physical sciences. Topics include: graphing and transforming polynomial, radical, trigonometric and rational functions; trigonometric equations and identities; exponential functions and logarithms; permutations and combinations.

MATH 12, PRE-CALCULUS ONLINE (4 credits)**Prerequisite: Math 11, Pre-Calculus**

This course is strongly recommended for students who are planning on pursuing post-secondary studies in math, engineering or the physical sciences. Topics in this course include: graphing and transforming polynomial, radical, trigonometric and rational functions; trigonometric equations and identities; exponential functions and logarithms; permutations and combinations. This course is hosted online, therefore internet access is required. Material is learned through online video lessons and animations while a teacher is available to support your learning.

PHILOSOPHY 12 (4 credits)

Philosophy 12 is a new course at LEC centered around the ideas of knowledge, reality and existence. It is of interest to those who seek to know themselves, understand others, and think about thinking. The class is a safe place to explore differences and seek common understandings. Rather than simply providing you with answers, this course will help you ask better questions. Along the way, students will explore philosophical inquiry processes and reasoning skills to respond to arguments and questions related to major issues in philosophy, assess the relevance of philosophical ideas for everyday life and current social and political issues, and explain different philosophical perspectives by considering the norms, values, worldviews, and beliefs of the philosophers who developed them.

PHYSICAL EDUCATION 10 ONLINE (4 credits)

PE 10 is a required course for students on the 2004 grad program. Topics include active living, movement, and personal & social responsibility.



PHYSICS 11 (4 credits)

Students in Physics 11 will study the wave nature of light and wave theory, motion and forces in one dimension, and nuclear energy.

As physics is essentially a course on the mathematical aspects of nature, a strong mathematics background is essential.



PHYSICS 12 (4 credits)

Prerequisite Physics 11

Students in Physics 12 will prepare for post-secondary courses in Physics. Topics in the course include: vector kinematics and dynamics, mechanical energy and vector momentum, mechanical equilibrium, circular motion and gravitation, electrostatics, electric circuitry, and electromagnetism.

PSYCHOLOGY 12B (Intro to the Mind) (4 credits)

In this course the following topics will be covered: the brain, consciousness, learning, memory, thinking, motivation, stress, psychological disorders and social psychology. It is a major goal of this course to provide each student with a deeper insight into himself or herself as a person. At the same time, the course emphasizes the applicability of psychological knowledge and skills not only to family, but also workplace situations, including those found in specific careers in the field of human services. (not offered this school year)

SCIENCE & TECHNOLOGY 11 ONLINE (4 credits)

Students in this course will learn about the world of science and technology and the interaction which occurs between technology and society. This course covers topics such as resource management and sustainability, climate change, forensics and crime solving, transportation systems and personal technologies. (not offered this school year)

SOCIAL JUSTICE 12 (4 credits)

Pre-requisite: English 12 recommended

Develop ethical reasoning skills as you explore issues of oppression and injustice in a Canadian and Global context. You will be asked to define personal and social responsibility when examining oppression based on ability, age, ethnicity, religion, sex, sexual orientation, socio-economic status, marital and family status. You will analyze both the causes and consequences of injustice and explore viable solutions by understanding how social change has occurred in the past. Challenge yourself to become an ethical, socially responsible global citizen. This is a case study and research based course. There is no final exam, but a final action project will be required of all students.

SOCIAL STUDIES 10 (4 credits)

Social Studies 10 focuses on current events in Canadian society, using Canada between the years of 1815 and 1914 as a backdrop. Topics include: applications of Social Studies, society and culture, politics and law, economy and technology, and the environment.

SOCIAL STUDIES 11 (4 credits)

In Social Studies 11 students will study three distinct topics including 20th century Canadian history, Canadian geography and environmental and human geography. Through the course students will become familiar with the rights, responsibilities, and practices of active Canadian citizenship. They will also explore Canada's role in the conflicts of the 20th century and its contribution to global stability, develop understanding of key environmental issues and challenges of global development and explore important issues related to Canada's evolving identity. (not offered this school year)



TELEVISION, FILM AND NEW MEDIA 12 (4 credits)

Get ready to explore the "behind-the-scenes" of cinematography, film making, editing, screenwriting, music and sound, acting, animation, documentaries etc. The course will begin by talking about media and how immense it's influence is on the world. Students will watch documentaries, commercials and ads which discuss how men and women are represented in the media and the messages this sends us. (not offered this school year)

