Eagle River Secondary Course Catalogue

2020-2021

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How to Use the Course Catalogue

Read the course catalogue for descriptions of courses and programs available to meet your educational goals.
Use the working copy of the Course Planning Form to plan your 3-year graduation program.
As always, when designing your program, be sure to utilize all available resources, including parents, teachers, counsellors and friends.
Please note that courses in this book are dependent on student enrollment. In other words, courses with low enrollment requests may not be in the timetable. Your choices count! Be sure to choose the courses that you really want.
### Planning Your Courses

<table>
<thead>
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<th>Grade 7</th>
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<tr>
<td>Humanities 7</td>
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<td>Science 7</td>
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<td>Socials 9</td>
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<td>Math 7</td>
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<td>Physical Education 7</td>
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<td>Explorations 7</td>
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<td>*French 7</td>
<td>*French 8</td>
<td>Elective: ________ (one must be an Art/ADST)</td>
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<tr>
<td>*Band 7</td>
<td>*Band 8</td>
<td>Elective:</td>
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*this may change during the timetabling process*
Graduation Program Requirements

A full course is worth 4 credits and a 10-week course is worth 2 credits. **At least 16 credits must be at the grade 12 level, including Language Arts 12, and 3 other grade 12 courses.** Students must also complete requirements for Daily Physical Activity.

Students must successfully complete courses as noted below:

<table>
<thead>
<tr>
<th>SUBJECT AREAS</th>
<th>MINIMUM CREDITS</th>
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<tbody>
<tr>
<td>A Language Arts 10 (English Studies 10, English 10 First Peoples)</td>
<td>4</td>
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<td>A Language Arts 11 (English Studies 11, English 11 First Peoples)</td>
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<td>A Language Arts 12 (English Studies 12)</td>
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<td>A Mathematics 10</td>
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<td>A Mathematics 11</td>
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<td>Physical &amp; Health Education 10</td>
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<tr>
<td>Career Life Education 10</td>
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<tr>
<td>Career Life Connections 12</td>
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<tr>
<td>*A Fine Arts and/or Applied Skills 10, 11 or 12</td>
<td>4</td>
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<td><strong>Total:</strong></td>
<td><strong>52 credits</strong></td>
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**ELECTIVE CREDITS** Students must earn at least 28 elective credits. They can be for:
- Additional grade 10, 11 or 12 Ministry-authorized courses
- External credits
- Board/Authority Authorized courses
- Independent Directed Studies

**Total:** **28 credits**

**Overall total:** **80 credits (min)**

All Grade 12 students will meet the Ministry Graduation Requirement once they have completed and presented the Capstone in the school-wide Presentation Day. This is a graduation requirement.

Students will receive instruction through the Career Coordinator.

**REQUIRED EXAMS**

Students will be required to write 3 exams between grades 10 to 12 in order to graduate:
- Gr. 10 - Numeracy Assessment, Literacy Assessment
- Gr. 12 – Literacy Assessment
SOCIAL STUDIES

SOCIAL STUDIES 9:
Social studies 9 is a survey course, which means that it will introduce a wide variety of topics in Geography and Canadian history (1750-1914) around “Big Ideas” rather than go into detail on a few topics.
The “Big Ideas” will include
1. How emerging ideas and ideologies profoundly influence societies and events.
2. Investigate how the physical environment influences the nature of political, social and economic change.
3. Analyze how disparities in power alter the balance of relationships between individuals and between societies.
4. Recognize that collective identity is constructed and can change over time.

SOCIAL STUDIES 10:
Social Studies 10 is a focus on the dominant influences, events and characters that have shaped our nation over the past 100 years. Canada’s military history, political and economic trends are the major focus in the course. Also, the parliamentary process as well as human global geography will be closely studied.

B.C. FIRST PEOPLES 12:
This course will explore:
• traditional territories of the BC First Nations and the relationships with the land • role of oral tradition for BC First Peoples • impact of historical exchanges of ideas, practices, and materials among local BC First Peoples and with non-indigenous peoples • provincial and federal governmental policies and practices that have affected, and continue to affect, BC First Peoples responses to colonialism • the resistance of BC First Peoples to colonialism • role and significance of media in challenging and supporting the continuity of culture, language, and self-determination of BC First Peoples • commonalities and differences between traditional and contemporary BC First Peoples governance systems

COMPARATIVE WORLD RELIGIONS 12:
This course will explore:
• characteristics of religion, mythology, and spirituality • core beliefs, practices, and ethics of world religions • approaches to doctrines or belief systems • sacred texts, traditions, and narratives • art, architecture, narratives, and other forms of expression • relationship between religion and government at different times and places

PHYSICAL GEOGRAPHY 12:
This course will explore:
• features and processes of plate tectonics and their effects on human and natural systems • natural disasters and their effects on human and natural systems • Climate, weather, and interactions between humans and the atmosphere • Characteristics of global biomes, including climate, soil, and vegetation • Natural resources and sustainability

20TH CENTURY WORLD HISTORY:
This course will explore:
• the rise and rule of authoritarian regimes • civil wars, independence movements, and revolutions • human rights movements, including those of indigenous peoples • religious, ethnic, and/or cultural conflicts, including genocide • global conflicts, including World War I, World War II, and the Cold War • migrations, movements, and territorial boundaries • interdependence and international co-operation • mass consumption and production of communication and transportation technologies

HISTORY THROUGH FILM 11/12:
This course is designed to view modern world history through the thematic lens. It introduces students to the history of the world through a combination of films, readings, and lectures. The themes of personalities, conflict, social change and innovation will be addressed throughout the course. These important themes continue to shape world history, society and culture. With its ability to craft perspective, dramatize events and personalize actions, film is often a mode through which we interpret the past. The class will watch, discuss, analyze and evaluate how specific movies relate to the major themes.
LAW 12:
This course will explore:
• key areas of law such as criminal law, civil law, and family law • foundations of Canadian law • structures and powers of the federal and provincial courts and administrative tribunals • the Constitution of Canada and the Canadian Charter of Rights and Freedoms • legislation concerning First Peoples • role of the judiciary as a constitutional check on legislative power • legislation concerning children and youth • legal resources and services, both online and in the community

ENGLISH

ENGLISH STUDIES 9
In English 9, students will develop skills in the curricular competency areas of Comprehend and Connect, and Create and Communicate. These skills will be developed through the use of various oral, written, visual, and digital texts. Students will be involved in discussions, debates, and presentations, as well as cooperative learning activities. Students will also be encouraged to enjoy reading as a recreational activity, and will learn to critically analyze literature. They will read and view a variety of genres of texts such as novels, plays, poetry, short fiction, informational texts, and films. In addition, students will write, with an emphasis on structured paragraphs, compositions, and complex sentences. Content of the course will focus on understanding the elements of story/text, processing strategies for reading, writing, speaking, and thinking, as well as the features, structures, and conventions of language. The overall emphasis of this course is on thinking and communicating in various forms.

COMPOSITION 10 (2 credits)
Composition 10 is designed to support students in their development of written communication through a critical process of questioning, exploring and sampling. Within a supportive community of writers, students will work individually and collaboratively to explore and create coherent, purposeful compositions. Students will read and study compositions by other writers and consider a variety of styles as models for the development of their writing. The course builds students’ writing competencies by introducing them to varied structures, forms, and styles of compositions.

SPOKEN LANGUAGE 10 (2 credits)
Spoken Language 10 is designed to support students in their development of spoken communication through processes of questioning, exploring, and sampling. The course builds students’ spoken language competencies by introducing them to varied structures, forms, and styles of oral compositions and by providing opportunities for students to individually and collaboratively study, draft, and use language to create original pieces in a variety of modes. This area of choice will also provide students with opportunities for performance, storytelling, and public speaking.

CREATIVE WRITING 10 (2 credits)
Creative Writing 10 is designed for students who have an interest in creative expression through language. The course provides students opportunities to build their writing skills through the exploration of identity, memory, and story in a range of genres. Within a supportive community of writers, students will collaborate and develop their skills through writing and design processes. This course is intentionally grounded in the sampling of writing processes, inviting students to express themselves creatively as they experiment with, reflect on and practice their writing.

LITERARY STUDIES 10 (2 credits)
Literary Studies 10 is designed for students who are interested in the literature of a particular era, geographical area, or theme, or in the study of literature in general. The course allows students to delve more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media.

NEW MEDIA 10 (2 credits)
New Media 10 is a program of studies designed to reflect the changing role of technology in today’s society and the increasing importance of digital media in communicating and exchanging ideas. This course is intended to allow students and educators the flexibility to develop a program of study centered on students’ interests, needs, and abilities, while at the same time allowing for a range of local delivery methods. New Media 10 recognizes that digital literacy is an essential characteristic of educated citizen. Coursework is aimed at providing students with a set of skills vital for success in an increasingly complex digital world by affording opportunities to demonstrate understanding and communicate ideas through a variety of digital and print media.
ENGLISH FIRST PEOPLES LITERARY STUDIES 10 (2 credits)
EFP Literary Studies is designed for students who are interested in exploring First Peoples’ literature in a variety of contexts, genres, and media. This area of choice provides students with opportunities to explore personal and cultural identities, histories, stories, and connections to land/place. This course is grounded in the understanding of how texts are historically and culturally constructed. Students will work individually and collaboratively to broaden their understanding of themselves and the world.

ENGLISH FIRST PEOPLES NEW MEDIA 10 (2 credits)
EFP New Media 10 is designed for students who are interested in exploring the increasing importance of digital media in communicating and exchanging ideas. This area of choice provides students with opportunities to think about the use of new media and its effects on individuals and on First Peoples’ communities and cultures. Students will work individually and collaboratively to develop skills needed in an increasingly complex digital world as they demonstrate understanding and communicate ideas through a variety of digital and print media.

ENGLISH FIRST PEOPLES SPOKEN LANGUAGE 10 (2 credits)
EFP Spoken Language 10 is designed for students who are interested in studying First Peoples’ oral traditions and in developing their oral self-expression and communication in a variety of contexts. Within a supportive community, students will work individually and collaboratively to develop their writing skills and create coherent, purposeful, and engaging oral texts for a variety of purposes. This area of choice will provide students with opportunities for performance and public speaking.

ENGLISH FIRST PEOPLES WRITING 10 (2 credits)
EFP Writing 10 is designed for students who are interested in writing for a variety of purposes and contexts. This area of choice provides students with opportunities to become better writers through the exploration of personal and cultural identities, memories, stories, and connections to land/place. Within a supportive community, students will work individually and collaboratively to develop their writing skills and create coherent, purposeful, and engaging compositions. This course is grounded in the exploration and application of writing processes, inviting students to express themselves as they experiment with, reflect on, extend, and refine their writing.

ENGLISH STUDIES – CREATIVE WRITING 11
This is a course designed for students who are interested in developing confidence and refining their writing skills through self-expression for various creative purposes. Students will read master writers and examine the tools they use. Students will reflect on, adjust, and extend their skills by writing short fiction, poetry, creative non-fiction, and non-fiction.

ENGLISH STUDIES – LITERARY STUDIES 11
This is a course which allows students to delve deeply into literature. The course focuses on exploring specific themes, periods, authors, or areas of the world through literary works (fiction and non-fiction) in a variety of media; increasing literacy skills through close reading of appropriately challenging texts; expanding development as educated global citizens; broadening understanding of themselves and the world; developing higher-level thinking and learning skills; and using oral, written, visual, digital, and multimodal texts. Students will also write literary analysis pieces, developed through processes of drafting, reflecting, and revising.

ENGLISH STUDIES – NEW MEDIA 11
This is a course designed to reflect the changing role of technology in today’s society and the increasing importance of digital media in communicating and exchanging ideas. The course focuses on developing a set of skills vital for success in an increasingly complex digital world, and understanding and communicating increasingly sophisticated ideas through a wide variety of digital and print media. Students will learn strategies to critically assess sources for bias and reliability. Students will also continue to develop their writing skills with a range of purposeful compositions developed through processes of drafting, reflecting, and revising.

ENGLISH FIRST PEOPLES 11
This course is designed for students who are interested in studying First Peoples’ literature and using writing for self-expression and communication in a variety of contexts. Students delve deeply into First Peoples’ oral and written literature in a range of media to explore various themes, authors, and topics. This provides a foundation for them to think critically and creatively as they continue to explore, extend, and strengthen their own writing.
ENGLISH STUDIES 12
By reading and analyzing various genres of literature, students will gain a broader perspective of the world and their place in it. English 12 strives to ensure the students become competent and confident in using language to express themselves in a variety of formats, paragraphs, essays and poetry. The course is a culmination of the previous experiences in the English program.

ENGLISH FIRST PEOPLES 12
English 12 First Peoples are the academic equivalent of English 12 and provide opportunities for all students, Aboriginal and non-Aboriginal, to learn about and engage with Indigenous creative expression the worlds of First Peoples provincially, nationally, and internationally. These courses provide students with the opportunity to explore and discover First Peoples’ worldviews through the study of literary, informational and media text with North American First Peoples’ content. English 12 First Peoples focus on the experiences, values, beliefs, and lived realities of First Peoples through various forms of text – including oral story, speech, poetry, dramatic work, dance, song, film, and prose (non-fiction and fiction). These courses may be taken as an equivalent to English 12.

FRENCH
A second language is often required for direct entry into post-secondary. Please double and triple check the entrance requirements for your chosen program. If in doubt, leave your options open and take an approved second language.

FRENCH 9
A continuation of Grade 8. You will be introduced to vocabulary units on foods, sports and travel. Listening and reading comprehension become an important part of the classroom instruction routine. Students will again demonstrate their language proficiency through oral presentations, projects, reading, listening and writing exercises. Students will learn many new irregular verbs and learn to speak in the past tense.

FRENCH 10
Themes this year include fashion, advertising, travel, childhood memories and the world of work. Grammar is expanded to cover speech in the two different past tenses. Language learning continues to emphasize the four skill areas of reading, writing, listening and speaking.

FRENCH 11
Prerequisite: French 10
This course more fully develops a student’s reading and writing skills. Grammatical emphasis is on developing the use of previously taught, as well as new verb tenses. Vocabulary focuses on the themes of education, fitness and relationships. In addition to building on previous units and learning more extensive vocabulary, more new verb tenses will provide an opportunity to communicate in depth.

FRENCH 12
Students will spend a lot this course studying the subjective tense. Listening and speaking do, however, continue to be an important part of the program. Themes covered this year include travel, fine arts and the law. Students will select areas of interest for written expression and apply use of different verb tenses.

EOP – students also have the opportunity to learn over 20 languages via SD83’s online programming. If you are interested in learning more about the current options, please visit the school counsellor and/or visit https://eop.sd83.bc.ca/
SCIENCE & MATHEMATICS

MATHEMATICS

To graduate, all students must complete a Grade 10 mathematics course as well as another math course at the Grade 11 or Grade 12 level. Since each pathway is designed to provide students with the mathematical understandings, rigour, and critical-thinking skills necessary for post-secondary programs* and/or the workforce, it is important that students consider future career interests when selecting a pathway. Students can elect to take more than one pathway if there are mathematical topics which interest them or if they are not sure about their future career choices.
**Workplace** math is designed to provide students with the mathematical understandings and critical thinking skills identified for entry into the majority of trades and for direct entry into the workforce.

**Foundations of Mathematics** is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus.

**Pre-Calculus** is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus.

* Students and parents, along with educators, are encouraged to research the admission requirements for post-secondary programs of study as they vary by institution and by year. To check which pathway is right for your post-secondary plans, visit the Education Planner website: http://www.educationplanner.ca & http://myBlueprint.com

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**WORKPLACE MATHEMATICS 10**
In this course, students will explore a variety of topics including: The SI and Imperial System, Spatial Reasoning, Pythagorean Theorem, Primary Trigonometric Ratios, Formula Manipulation, Geometry, Money and Income. Students who successfully complete this course will go on to **Workplace Mathematics 11**.

**FOUNDATIONS OF MATHEMATICS & PRE-CALCULUS 10**
In this course, students will explore a variety of topics including: SI and Imperial Units of Measure, Surface Area and Volume of 3-D Objects, Trigonometry, Irrational Numbers, Powers, Polynomials, Factoring, Relations and Functions, with an emphasis on Linear Relations, and Systems of Linear Equations. Students who successfully complete this course will go on to **Workplace Mathematics 11**, **Foundations of Mathematics 11**, and/or **Pre-Calculus 11**.

**WORKPLACE MATHEMATICS 11**
In this course, students will explore a variety of topics including: SI and Imperial Units of Measure related to Surface Area and Volume, Right Triangles, Scale, Modeling and Drawing 3-D Objects, Numerical Reasoning, Personal Budgets, Finance, Compound Interest, Formula Manipulation, Slope, and Graphs.

**PRE-CALCULUS 11**
In this course, students will explore a variety of topics including: Absolute Value, Radicals, Rational Expressions, Rational Equations, Trigonometric Ratios for Angles in Standard Position, Sine and Cosine Laws, Factoring, Quadratic Functions, Reciprocal Functions, Absolute Value Functions, Quadratic Equations and Systems, Linear and Quadratic Inequalities, Arithmetic and Geometric Sequences.

**PRE-CALCULUS 12**
Pre-Calculus 12 is a course that is intended for students who plan to major in science, math, or engineering. It is suggested that students who take this course obtain a minimum C+ in PREC 11. The topics of this course include Trigonometry, Trig Functions and ratios, Relations and Function Analysis, Logarithms, Permutations, Combinations and Bimodal Theory. A graphing calculator is not required as the school will lend one as necessary. Students are required to have a scientific calculator for daily use.
SCIENCE

SCIENCE 9:
Science 9 develops scientific knowledge and skills that will be relevant to students’ everyday lives and future careers. The course will involve many activities that include working safely in a science laboratory, working independently, and learning cooperatively. Topics include biology (cell division), chemistry (element properties), physics (electricity), and ecology (cycles and sustainability).

SCIENCE 10:
Students will explore the following:
• DNA structure and function • genes and chromosomes • simple patterns of inheritance • mechanisms for the diversity of life: — mutation and its impact on evolution — natural and artificial selection • applications of genetics and ethical considerations • rearrangement of atoms in chemical reactions • acid-base chemistry • law of conservation of mass • energy change during chemical reactions • practical applications and implications of chemical processes, including First Peoples perspectives • law of conservation of energy • transformation of potential and kinetic energy • local and global impacts of energy transformations from technologies • nuclear energy and radiation: — fission versus fusion — technologies and applications, and implications • formation of the universe: — big bang theory — components of the universe over time — astronomical data and collection methods

LIFE SCIENCES 11 (BIOLOGY 11)
Students will explore the following:
Characteristics of Living Things • cells are the basic unit of life: — comparing cell structures — prokaryotic and eukaryotic — unicellular and multicellular — cell specialization — sexual and asexual reproduction — cellular respiration and photosynthesis • viruses: — basic structure and function of a virus — lytic and lysogenic cycles — effects of viruses on organisms
Process of Evolution • evolutionary change: — role of DNA in evolution as a hereditary material — five agents of evolutionary change • development of the theory of evolution • models of evolution • speciation: — divergent evolution — convergent evolution — co-evolution • trends in complexity • artificial selection and genetic modifications Taxonomy • taxonomy principles for classifying organisms: — phylogenetic tree and cladogram — dichotomous key — First Peoples understandings of animal body plans — First Peoples uses of local plants • binomial nomenclature • unifying characteristics of the evolutionary continuum across the kingdoms: — three domains — six kingdoms
ANATOMY AND PHYSIOLOGY 12 (BIOLOGY 12)
Students will explore the following:
Homeostasis • cellular compounds and biological molecules: — water — acids, bases, buffers — organic molecules: carbohydrates, lipids, proteins, nucleic acid, ATP • dehydration and synthesis reactions • enzymes and metabolic pathways: — models of enzymatic reactions — role of vitamins and coenzymes — effects on enzyme activity — metabolism • feedback loops regulate the body’s internal environment: — positive feedback — negative feedback • structure of plasma membrane: — phospholipid bilayer — hydrophobic and hydrophilic regions • proteins • transport across a cell membrane: — selective permeability — factors that affect the rate of diffusion — tonicity • surface-area-to-volume ratio
DNA and Cells • cell structures and functions • interrelationship of cell structures • DNA carries the cell’s genetic information: — process of DNA replication — process of protein synthesis — effects of DNA mutations — genomics — biotechnology, cloning, and recombinant DNA Organization • levels of organization • tissues are organized into four groups • organs within each of the systems are interconnected to maintain homeostasis: — digestive system — cardiovascular and lymphatic system — respiratory system — urinary system — reproductive system — nervous system • functional interrelationships exist among body systems • nutrition and lifestyle differences affect human health

CHEMISTRY 11: CH-11
Chemistry 11 deals with fundamental Chemistry concepts and skills involving formulae, equations, stoichiometric calculations, simple atomic/molecular structure, organic nomenclature, reactions and chemical thermodynamics. Atoms and molecules, the mole, chemical reactions, solution chemistry and organic chemistry are also key components of the course.

CHEMISTRY 12 – CH-12
Prerequisite: Chemistry 11
This course deals with the concepts of reaction kinetics, equilibrium, solubility, acid-base systems and oxidation reduction reactions. A scientific calculator is required.

PHYSICS 11: PH-11
Physics is the study of the nature of things such as motion, forces, energy, matter, heat, sound, light and the insides of atoms. Physics 11 covers the following topics:
• Vector Kinematics – motion without reference to causation.
• Dynamics – motion with reference to its causes (forces). Newton’s Laws.
• Work, Energy, and Power – motion from an energy perspective.
• Momentum – inertia in motion.
• Electrical Circuits – basic electric circuit theory
• Momentum – inertia in motion.
• Optics - the study of the path light follows.

PHYSICS 12: PH-12
Prerequisite: Physics 11
This course continues and extends the study of forces began in Physics 11. The topics covered are:
• Vector Kinematics – motion without reference to causation.
• Dynamics -motion with reference to its causes (forces). Newton’s Laws.
• Work, Energy and Power -motion from an energy perspective.
• Momentum -inertia in motion.
• Equilibrium -natures balancing act.
• Circular Motion -things that go in circles.
• Gravitation -there goes that apple again.
• Electrostatics -electrons and their effect.
• Electromagnetism -magnets, motors and generators.
RENEWABLE ENERGY 11/12
Students will design an Off-Grid solar system

Topics
Electrical basics: voltage; current; resistance; power; energy; Ohm’s Law; DC and AC voltage; series and parallel connections.
Solar energy and Photovoltaics(PV).
Installation of PV systems: solar modules; batteries; inverters; controllers; balance of system.
Wind, water, solar and nuclear energy.
Optional topics: Electric Vehicles; Starting an PV installation business; Solar thermal.

HEALTH SCIENCE 12
This course contributes to the physical, intellectual, human, social and career development needs of the students. The overall objective is to allow students to acquire the knowledge, skills and attitudes that will enable them to enhance their quality of life as well as to expose them to a rapidly increasing vocational field. The course will present an introductory survey of human anatomy and physiology, nutrition, exercise management, health issues, injury prevention and rehabilitation and career and employment preparation.

HORTICULTURE 9-12
This course will focus on the flora (plants) and fauna (animals) of our area. We will look at the health of our community vs the health of our nation. In doing so we will be in charge of building and planting gardens and flower beds. Additional topics include: plant propagation using different media, weed and pest control (safe use of chemicals) and natural methods, plant care and reproduction. NOTE: There will be several field trips within the local area.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 9/10/11/12
Physical Education has the following objectives:
1. To develop a positive sense of well-being;
2. To introduce lifelong recreational activities;
3. To improve the skill level and understanding of various lifelong activities
4. To develop a good attitude towards physical education; and
5. To assist students in developing and maintaining physical fitness.
6. To educate students on how healthy practices and choices influence our physical, emotional, and mental well-being.

The PE program at ERS will be delivered through units and modules. At times, students may have the option to select outdoor activities for chunks of time instead of activities in the gym. These units/modules will be developed with the students and will increase in opportunity as the students enter the senior electives.

AM FITNESS
AM Fitness classes are run in the morning before school. Fitness courses designed for students who:
• Wish to improve in the area of health-related fitness
• Wish to improve fitness in order to assist in attaining athletic goals
• Wish to develop a “disciplined” healthy lifestyle
Students will be introduced to all components of physical fitness and will participate in activities that will enable them to improve in these areas. These activities will include specific programs in cardiovascular fitness, circuit training, and weight training. The focus of these courses will be totally health-related in nature and will not offer any skill-related (game) activities. Students should be highly self-motivated, with serious goals for personal health and fitness.
APPLIED SKILLS

TECHNOLOGY EDUCATION

TECHNOLOGY EDUCATION 9 - MECHANICS
Students will be introduced to small engine design and the use of tools and diagnostic equipment to troubleshoot and repair a small gas engine. Students will also learn basic principles around the creation and transmission of power. Topics will include 4-stroke single cylinder engines and pneumatic power. Students will be instructed in the safe and proper use of tools and equipment.

TECHNOLOGY EDUCATION 10- MECHANICS
Students will have an opportunity to further their knowledge in small engine design and the use of tools and diagnostic equipment to troubleshoot and repair a small gas engine. Students will also learn advanced principles around creation and transmission of power. Topics will include 2-stroke single cylinder engines, multiple cylinder engines and fluid power. Students will be instructed in the safe and proper use of tools and equipment.

TECHNOLOGY EDUCATION WOODWORK 9
This course will introduce students to the tools and processes used in woodworking. It will include both traditional woodworking techniques and a problem solving/design approach to project work. Students will study the nature of the woods and adhesives used. They will learn the safe way to operate all power equipment as they produce practical and decorative projects. Students will be expected to design their own projects after completing skill building exercises and an instructor guided project.

TECHNOLOGY EDUCATION WOODWORK 10
This course will give students the ability to further their skills used in woodworking. It will include both traditional woodworking techniques and a problem solving/design approach to project work. Students will study the nature of the woods, joinery and tool care as they produce practical and decorative projects. Students will be expected to design their own projects after completing skill building exercises and an instructor guided project.
CARPENTRY & JOINERY 11
This course will emphasize the design of furniture and cabinets. Students will need to communicate their designs with sketches and technical drawings before construction of their projects. Student projects will include: a skill building exercise demonstrating the strength and function of typical woodwork joints, an instructor guided piece of furniture and a final project of student design. The students will learn to use various techniques and a variety of machine operations in a safe orderly way.

CARPENTRY & JOINERY 12
This course emphasizes both carpentry and cabinetmaking. The cabinetmaking section will focus on interior cabinets. The carpentry section of the course will include studying house plans, choosing and laying out a building site, constructing a foundation, framing, rafter layout, roofing, sheathing and finish work including layout of stairs.

METAL FABRICATION- ART METAL 9-12
In this course students will be introduced to both contemporary and traditional forms of metalworking. Students will be instructed in the safe use of tools and equipment or complete projects such wire sculpture, casting pendants and jewellery, chain making and spin casting rings. Traditional forms of metal work will be tempering wrought iron, casting large sculptures, and brazing/welding projects.

AUTOMOTIVE TECHNOLOGY 11
This is a very basic vehicle course dealing with the theory of automobiles. Study the engine principles, the fuel systems, ignition system, cooling system, suspension and steering will be among some of the theory involved. A detailed essay on an automobile will be required for completion of this course. Students will be instructed in the welding and fabrication processes and required to complete project work.

AUTOMOTIVE TECHNOLOGY 12
In this course students are to undertake an INDEPENDENT and responsible attitude to completing coursework. The course will involve creating a “How to” video on car repair, regular theory assignments and completion of a minimum number of LABS done on the shop car.

SKILLS EXPLORATIONS 9-12
In this course, students will participate in a variety of trades based activities in order to provide them with practical life skills. Students will be introduced to textiles through block printing and the creation of a unique sack. Electronics and woodworking will be introduced through the creation of night light. Students will then fuse all of their skills in the creation of an independent project.
INFORMATION TECHNOLOGY COURSES

FINANCIAL LITERACY 9-12
How money smart are you? In this course, students will explore concepts in the financial world, including planning and managing money wisely. Areas of study taught through application in personal finance include budgeting, credit, saving and investing, financial protection and funding your career.

ROBOTICS AND CODING 9-12
This course is a multi level class designed to help students to learn to code regardless of whether they are complete beginners or experienced programmers. Students will work with Lego EV3 Robotics kits. They will design build and modify a variety of robots. They will learn to program these robots with graphic or text based languages to get them to perform tasks and solve problems. Students will also learn basic keyboarding skills as well as how to code games, to make apps for android devices, and to make web pages with HTML5. Student will explore drafting and designing original works and then printing them on the 3D printer.

DIGITAL PHOTOGRAPHY 9-12
Love to click a good picture? Come explore the how’s and why’s of how to take a good picture using both film and digital cameras. Try different mediums and understand your camera better, as well as how to use the different programs available for digital editing. Build a portfolio of your work, create a coffee table book, set up an online site of your best work and participate in an actual art show/sale. Note: This course requires a digital camera, and will entail several field trips.

HOME ECONOMICS

TEXTILES 9-12
Students in this course will explore a variety of craft and textile mediums. Projects may include, but are not limited to, sewing, knitting, crocheting, jewelry making and print making. Students will also have the opportunity to market their products through a variety of means (ie. craft fair, pop-up stores…).

FOOD STUDIES 9
Do you want to amaze your friends and family with your culinary (cooking) skills? If this sounds like you, then this is the course for you.

FOOD STUDIES 10
Increase your knowledge of food by cooking us a storm. A break from sitting in a desk all day, you will be chopping, slicing, dicing and planning your way to delicious meals and desserts. In this course you will learn how to prepare food that is fun, fabulous and fashionable. From humble basic ingredients, you will produce magnificent edibles that will not only taste fabulous but will also be good for your body! Menu selections will include a wide variety of choices and will include baked items, breakfast, lunch and dinner foods, desserts, International foods, soups and snacks etc.

FOOD STUDIES 11/12
In this Senior Foods course, you will have a chance to learn culinary essentials and have fun creating dishes that are healthy and delicious...so you can survive on your own! This course will provide you with opportunities to cook foods from “scratch” and help you gain new cooking techniques and taste a variety of foods. Labs will range from a wide assortment of desserts, baked items, appetizers and meal preparations that will include some vegetarian and international dishes. In addition, you will also be introduced to recipes that require more complex preparation such as filleting fish, deboning chickens and preservation techniques.
FINE ARTS

DRAMA

DRAMA 9-12
Students will develop techniques in movement, improvisation, voice and script work. Students will be expected to participate and work cooperatively with all classmates. Students will perform in front of their class and possibly in a production for the audience.

MUSIC

CONCERT BAND 9-12
In this multi level course students will learn to play an instrument with increasing levels of skill and proficiency. Students will improve their knowledge of fingerings across the range of their instrument and will develop their ability to play increasingly challenging music with expression and feel. Students will learn standard notation and the fundamentals of how music works and how to make music with a group so they can easily learn any instrument in the future. Repertoire is drawn largely from contemporary popular music and movies.

JAZZ BAND 9-12
This multi level course takes place two mornings a week outside of the regular timetable. It is a course where the most talented musicians in the school really hone their skills and get good fast. Instruments in Jazz Band include saxophones, trumpets and trombones, electric guitar, piano, bass and drums. The repertoire consists mostly of Jazz and Popular contemporary music.

GUITAR 9-12
In this multi level course, students from beginners to experienced players can learn to play the guitar in the style of their choice. The class is largely individualized so that players choose songs to learn that fit their musical tastes and skill level. Whether you want to learn simple chording to sing and play campfire songs, classical guitar, classic rock songs, contemporary pop or metal, this class can help you on your way.

CHOIR 9-12
In this multi level singing course, students from beginner on up to experience singers can learn to improve their singing abilities in the style of their choice. This class has an ensemble component where students learn to sing together in unison and in harmony. But it is also highly individualized so that students can learn to sing songs that fit their musical tastes and skill levels. Whatever style you would like to learn to sing in, this course will give you the tools and the confidence you need to do it better and better.

MUSIC COMPOSITION AND TECHNOLOGY 9-12
In this course students will learn to write and record songs in the style/styles of their choice. Students will learn the basics of how music works and how songs are put together. They will learn how to use recording industry standard Protools multi track recording software, which includes thousands of virtual instruments and patches. Students can either play physical instruments and sing, or can play or program virtual instruments to make their recordings. Skill on an instrument is helpful, but by no means required. By the end of the course, each student will have written and recorded 8 songs – enough for a first CD.
ART

VISUAL ARTS 9 & 10
This is a survey course intended to provide students with a basic set of skills in a wide variety of media. NO PRIOR ART EXPERIENCE IS REQUIRED. Students will explore drawing, painting and pottery. Students will participate in art discussions and displays and learn about indigenous art, contemporary art, art history and careers in art.

ART FOUNDATIONS 11 & 12
Art 11 and 12 will expose students to a variety of media and concepts. NO PRIOR ART EXPERIENCE IS REQUIRED. As skills are developed, flexibility and individualized opportunity will open up. Students will discover their own personal interests and begin generating original ideas. Students will explore drawing, painting and pottery and will be expected to take creative risks and think critically about their products. Students will participate in art discussions and displays and learn about indigenous art, contemporary art history and careers in art.
LEADERSHIP 9-12 (this course is APPLICATION based)

**Depending on scheduling needs, Leadership may be inside or outside (before/lunch/afterschool) the timetable or a combination of both.**

This class will take place two days a week after school throughout the entire year (linear).

This course is designed to give students the opportunity to develop their individual and collective sense of social responsibility through the acquisition and application of leadership skills. Students will develop lifelong skills in time management, public speaking and communication, school and community service, event planning, public relations and conflict resolution in real time through the implementation of the leadership calendar and various class activities. This is a student driven course where the class determines, under the guidance of their teachers, what activities will be completed.

Enrolled students are required to accumulate 100 hours of class activities. Full participation with enthusiasm and unbounded energy is an expectation for all leadership students. Students in this course must also be willing step out of their comfort zone.

MARKETING 10-12

Students in grade 10, 11 or 12 will operate the school store (before school and at lunch) in this course. Students will develop business knowledge and through hands on participation, apply their skills, and experience the realm of retailing from an employee perspective. Skills will include communication, working in teams, opening and closing, customer service, cash control, security, ordering and receiving stock, advertising, promotion and display techniques.

INDIVIDUAL STUDENT PROJECT: IDS 10, 11, 12

This course enables students to complete a large scale project on their own over the course of a semester. Prior to entry into the course, each student must decide on a project he/she would like to undertake, how class time will be used in order to complete the project and how it will be assessed on a weekly basis. This course is an opportunity for students to study a specific topic or area of interest in great detail. Students will be expected to attend class and work on their project under the direction and guidance of a teacher.
Career Education

The Career Education curriculum supports students in the process of becoming successful, educated citizens by providing them with opportunities to explore a variety of careers and options for their future. These courses help students discover a bridge between classroom learning and workplace and post-secondary realities. Through numerous learning experiences within and outside the classroom, students are expected to develop an integrated post-graduation plan that is connected to a capstone or culminating project, which demonstrates their learning in an area of personal interest. Ideally, the capstone project will be an area that students are passionate about and anticipate they will be pursuing further education and learning and/or a career in.

Dual Credit Opportunities
There are many opportunities to go to post secondary during your Grade 12 year. For example, students can get their tuition paid for in order to attend the Welding Foundations program at Okanagan College. Be sure to connect with the Career Centre if you are interested in these amazing opportunities.

Career Life Education 10 (CLC 10)
CLC 10 will continue students’ career life journey from Grade 9 into Grade 10. Instructional focus will encourage each student to create a positive and valuable pathway involving exploration of educational course/program options and social responsibilities in the high school, local community and global environments. The District’s myBlueprint resource will be a major resource in the course.

Career Life Connections 12 (CLE12)
Career Life Connections 12 (CLC 12) continues the career life journey through individual exploration of post-secondary and career options. Students will create a capstone project reflecting their pathway and connecting their plans for life after high school. The student will present this project to a teacher/community panel for final evaluation.

WORK EXPERIENCE 12A and 12B
Work experience for school credit, must be a minimum of 100 hours at an employer who carries WCB coverage. Work experience must be approved by the Career Coordinator before you start. Meet with the Career Coordinator/Clerk to complete the following
1. Work experience training plan
2. Online Moodle
3. New worker orientation
4. Resume
5. Record hours using the Work Experience log book
6. After 100 hours worked have employer complete the Employer evaluation
7. Complete the student reflection.