

**OSOYOOS SECONDARY
SCHOOL
COURSE PLANNING
BOOKLET
2011/2012**

INTRODUCTION

This booklet gives a brief description of course requirements and course descriptions that will be available to students at Osoyoos Secondary School for the 2011-2012 school year. At the beginning of each semester, the subject teacher will give students a more detailed course outline and evaluation procedure. Students and/or parents wishing further information are encouraged to talk to classroom teachers and counsellors.

MISSION STATEMENT

To enable learners to achieve their individual potentials and to become healthy productive citizens of a global society.

PRINCIPAL'S MESSAGE

Course selection time is upon us and we are excited to offer a variety of opportunities to our students. This is the only time in a student's life where their education will be completely free of charge. Therefore, we encourage students to take a wide variety of courses while keeping in mind their goals for the future. All students are expected to take a full load of courses. Grade 12 students may apply for a study block if there is a compelling reason and the student is carrying a rigorous academic course load. Study block applications can be found in the office.

All students are urged to give serious consideration to course planning. It is important to read this booklet carefully and discuss the information with your parents. Students and parents have a major responsibility in the programming process as administrators and counsellors cannot, and should not, choose your courses nor dictate your future.

If you have any questions or doubts, see an administrator, counsellor, or a teacher about your plans. Our staff has a genuine interest in having all students attain their educational goals while meeting graduation requirements and fulfilling entrance requirements to post-secondary institutions and/or preparing for the world of work.

We all look forward to another great year at OSS!

Glen Heinrichs, Principal

FACTORS TO CONSIDER IN MAKING YOUR COURSE SELECTION

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

- 1) What courses are required for graduation?
- 2) What courses must you take to enter colleges, technical schools or universities that you might attend? Keep as many doors open as you can!
- 3) What courses do you need to enter jobs or job training programs in which you are interested?
- 4) What courses can you take to broaden your own particular interests?

For a wealth of information about course planning, visit:
www.studentcounsellor.com. (username: oss; password: rattlers)

GRADUATION REQUIREMENTS

To graduate, students must earn a minimum of 80 credits consisting of:	
English 10	4 Credits
English 11/Communications 11	4 Credits
English 12/Communications 12	4 Credits
Social Studies 10	4 Credits
Social Studies 11	4 Credits
Science 10	4 Credits
A Science Course 11 or 12	4 Credits
Mathematics 10 (Prin/App/Ess OR Found/A & W)	4 Credits
Mathematics 11 or 12 (Prin/App/Ess)	4 Credits
Physical Education 10	4 Credits
Fine Arts or Applied Skills 10, 11 or 12	4 Credits
Planning 10	4 Credits
Graduation Transitions	4 Credits
Elective Courses (12 credits must be Gr. 12 level)	<u>28 Credits</u>

Total: 80 Credits

POST SECONDARY OPPORTUNITIES

Students wishing to continue their education after high school may choose from a variety of institutions in the lower mainland or elsewhere in the province where speciality programs are offered at specific colleges. Career programs of one or two years length are offered as well as courses which permit transfer to a B.C. University into second or third year.

Entrance requirements to most colleges is normally high school graduation. Because programs may vary with different institutions, and course offerings and entrance requirements change from time to time, we recommend students consult with a school counsellor before submitting an application. Be sure to consult calendars! A useful website in this regard www.schoolfinder.com.

To register for a university or college in British Columbia you should register first with PASBC (www.pas.bc.ca) to complete information once and then have it sent directly to the institutions of your choice. **APPLY EARLY!!!** (October 1) and Apply 'On Line' at: www.pas.bc.ca

APPLYING FOR POST-SECONDARY INSTITUTIONS

If you know the exact program you wish to take and the institution you wish to go to, simply look through the latest calendar and register on-line at www.pas.bc.ca. You will need your Personal Education Number to register. The school will send in your first two term marks to the provincial government. This is called early registration. You will be able to indicate the institutions to which your marks are to be sent. Look in the calendar for this information early in September. If you do not know what program you wish to take, visit your counsellor particularly in SEPTEMBER AND OCTOBER. You can apply to some programs a year in advance!! If the institution of your choice has a residence, apply early. You should have your name in by the end of January otherwise you may be disappointed. Again, the addresses are in the calendar.

DIPLOMAS and TRANSCRIPTS

- (a) Students completing graduation requirements are to be issued one of two graduation diplomas:
- (i) Secondary School Graduation Diploma: This is the regular Dogwood Diploma issued to students who satisfy British Columbia Secondary School graduation requirements. Students who achieve an average grade better than "B", on the courses used to satisfy graduation requirements, will have "Honours Standing" indicated on their diploma.
 - (ii) There may be some students who do not fulfill graduation requirements referred to in (i). At their discretion, principals may choose to recognize the accomplishments of these students by issuing a certificate, available from the Ministry, stating that the student has completed an adjusted program. This certificate is not a graduation diploma and the principal has the responsibility to determine whether or not it is to be issued.
- (b) A final transcript of grades will be issued by the Ministry in August and a copy of the transcript will be sent to the school. Student transcripts will include only those courses that have been successfully completed. Transcripts will be forwarded to post-secondary institutions if a PSI form has been endorsed by March.

POST-SECONDARY EDUCATION COSTS

The counsellor has information regarding university and college courses and costs.

For a wealth of information about course planning, visit:
www.studentcounsellor.com. (username: oss; password: rattlers)

PROVINCIAL SCHOLARSHIPS

Students who write provincial exams, and earn a letter grade of 'A' in at least three courses and a minimum of 'B' on their English 12 provincial exam, will receive a \$1,000 scholarship from the ministry. The top twenty students in the province receive a \$2,500 scholarship.

DOGWOOD DISTRICT SCHOLARSHIP AWARD

This award acknowledges excellence in fields other than academics. Osoyoos Secondary School usually receives three of these \$1000 awards. Candidates must demonstrate excellence in one, or more, of the following areas:

- Fine Arts (Visual Arts, Dance, Drama, Music)
- Applied Skills (Business Education, Technology Education, Home Economics)
- Physical Activity (Physical Education, School Teams)
- Second Languages

The qualifying candidate will receive \$500 in July/August and a further \$500 after the student begins their post-secondary program.

PASSPORT TO EDUCATION

The top 20% to 30% of the students in grades 10 to 12 will be awarded stamps in the following amounts to assist them after they graduate and enroll in a bonafide post-secondary program:

Grade 10	\$250.00	Grade 11	\$250.00
Grade 12	\$500.00		

Passport to Education stamps are based two-thirds on academics and one-third on other factors. Upon graduation, students will be given their Passport and can use it to reduce their tuition cost at post-secondary institutions.

BRITISH COLUMBIA STUDENT LOANS

The criteria to qualify for student loans can change at any time. Grade 12 students should check out the Website: www.canlearn.ca for information on student loans.

CO-OPERATIVE EDUCATION PROGRAMS

Students should become aware of the Co-operative Education Program. It is available in many academic fields in the post-secondary institutions. A student with above average academic performance may take on a paid job for alternating semesters in his/her academic field. It takes longer to graduate. The very positive side is that you earn the necessary funds AND you obtain work experience. Check out this opportunity with the counsellors.

LOCAL BURSARIES AND SCHOLARSHIPS

Our local organizations, clubs, and individuals are extremely generous. Scholarships are awarded to students who have shown academic excellence. Bursaries take into account both academic performance and financial need. Some donations are simply awards that have specific criteria. Some recipients are chosen by the school awards committee while others are chosen by the donor. The total amount available is usually in excess of \$40,000.00. The award must be claimed within 18 months of the last day of school. To claim an award a student must provide proof of registration at a post-secondary institution to the school office. The school will notify the donating organization which will then release the funds.

COURSE DESCRIPTIONS

MATHEMATICS

FOUNDATIONS OF MATHEMATICS 11

This course will require a graphing calculator. This course is intended for students who plan to attend college or university but do not plan to enrol in a program which requires theoretical mathematics. Topics include: proportional reasoning (rates, scale diagrams, scale factors), properties of angles and triangles (proofs and problems), sine law and cosine law, inductive and deductive reasoning, spatial reasoning puzzles and games, normal distribution (standard deviation, z-scores), confidence intervals, confidence levels and margin of error, systems of linear inequalities in two variables and characteristics of quadratic functions. It may also include a research project on a historical event or area of interest involving mathematics.

Prerequisite: Foundations of Mathematics and Pre-Calculus 10

PRE-CALCULUS 11

This course will require a graphing calculator. This course is intended for students who plan to attend college or university and plan to enrol in a program that requires theoretical mathematics. These programs include Mathematics, Sciences and Engineering. The topics covered in this course include: absolute value, radicals and radical expressions, rational, expressions (permissible and non-permissible values, operations, simplify), primary trigonometric ratios, sine law and cosine law, polynomial factoring, absolute value graphs, quadratic functions (standard form, general form, characteristics), quadratic equations, systems of linear-quadratic and quadratic-quadratic equations, linear and quadratic inequalities, arithmetic and geometric sequences and series, reciprocal linear and quadratic functions.

Prerequisite: Foundations of Mathematics and Pre-Calculus 10

APPLICATIONS OF MATH 12 (AMa 12)

Important Note: This is the last year Applications of Math 12 will be offered.

Topics covered in this course include matrices, personal finance, trigonometric function, geometry, vectors, combinations and probability. A graphing calculator is mandatory. It is important to note that some post-secondary institutions count AMa 12 as a PMA 11 equivalent.

PREREQUISITE: Mastery of the outcomes in Applications of Math 11.

PRINCIPLES OF MATHEMATICS 12 (PMA12)

Important Note: This is the last year Principles of Math 12 will be offered.

A graphing calculator is mandatory. If the student cannot afford a graphing calculator, there is a limited amount of graphing calculators available for rent from the school. Topics include transformations, exponents and logarithms, word problems, exponential growth and decay, compound interest, trigonometric function and equations, sequences and series, combinatorics: and probability. Most post-secondary institutions look favourably on students with PMA12.

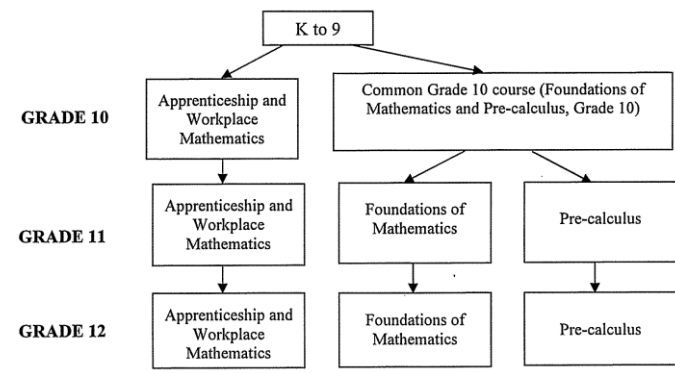
PREREQUISITE: Principles of Math 11

CALCULUS 12

This is a locally developed four-credit course. This course is designed for those students who intend to enter a Mathematics, Science or Engineering faculty at University after graduation from high school, and will give such students a thorough grounding in the principles of Calculus. Students who enter the above mentioned faculties in University will be required to take a Calculus course in their first year

of University study. Topics include slopes and tangents, maxima and minima problems, sequences, limits and derivatives, derivatives of algebraic functions, tangents, integration and systems of linear equations. A graphing calculator is required. If the student cannot afford a graphing calculator, there is a limited amount of graphing calculator available for rent from the school.

PREREQUISITE: Mastery of the outcomes in PMA12.



SOCIAL STUDIES

SOCIAL STUDIES 11

Social Studies 11 examines the roots of contemporary environmental, legal, social, economic and political issues facing Canadians. By looking at the way Canada has changed politically, socially, and economically over the 20th century we gain an insight into the powerful forces that shape Canada today. The course is broken into 3 distinct content areas: (1) History - 1914 to 2000 (2) Government - Our system of government, ideologies, politics (3) Geography - Human, Economic, Environmental.

PREREQUISITE: Social Studies 10

HISTORY 12

History 12 covers the history of the 20th Century. The course examines in detail the major events and people that have shaped our world from 1918 to 1991. It includes such things as the Russian Revolution, the formation of the USSR, Inter -War Years focusing on the "Boom Times" of the USA and the Stock Market Crash 'heard & felt' around the world; World War II, the Korean War, the Vietnam War, the Middle East conflicts, the development of India and Pakistan, the Cold War, the fall of the Soviet Union and the separation and reunification of Germany. If you are intrigued about how and why events occurred and how they affect today's world, then this course is for you.

PREREQUISITE: Social Studies 11

GEOGRAPHY 12

This course is a detailed survey of Physical Geography, including Earth Sciences, Climate, Hydrology and the Biosphere. Included is the study of the human use of resources and the interactions between humans and their environment.

Prerequisite: None

LAW 12

Law 12 will cover the following topics: The Law and Government, Lawbreakers and the Criminal Justice System, Private Relationships: Rights, Wrongs, and Remedies, Family law, Consumer Law and an optional, law-related issue.

PREREQUISITE: Social Studies 11

ENGLISH

The purpose of the English Program is to develop the skills to communicate effectively. Students will develop the ability to write coherently and accurately with proper spelling, punctuation and sentence structure. Paragraph and essay writing are taught according to the expectations at each grade level. Students will develop the ability to read and comprehend a variety of materials including short stories, novels, essays, drama and poetry; and to be aware of media techniques. Students will also develop the ability to speak clearly and confidently and develop the habit of recreational reading.

PREREQUISITE: Previous grade in each course, in sequence.

ENGLISH 11

This course provides the student with a review of the entire process of the writing art - generation of ideas, choosing and narrowing a topic, awareness of audience and purpose, organization and drafting of ideas, revision and clarification, and finally polishing, editing, and publishing. Emphasis is placed on improving organizational ability, coherence, and unity.

The literature component of the course will include novels, poetry, short stories, non-fiction prose, and drama. English 11 students will become familiar with various literary forms, devices, and techniques, and will develop skills in reading and writing critically. The course is arranged to enable a class to focus on a particular theme and to examine a variety of approaches to that theme - thus providing a broad perspective. Evaluation will be based upon take-home essays, in-class essays, novel seminars, oral presentations, journal entries, and projects.

PREREQUISITE: English 10

COMMUNICATIONS 12

A course designed for students who do not intend to further their studies at the College level, and are not capable of maintaining a satisfactory academic standard in English 12. The course stresses the minimum essentials of English composition needed in all vocations and occupations.

Note: All grade 12 students at OSS take English 12 including those who desire to take Communications 12. However, Communications 12 students will write the mandatory Communications 12 provincial exam rather than the English 12 provincial exam.

PREREQUISITE: English 11

ENGLISH 12

English 12 is a challenging course that emphasizes analytical thought through textual readings. This course covers various literary forms (short story, novel, poetry) and genres, while discussing current events and topical issues. The central focus is communication. Students therefore explore written and verbal means of expression, and develop ways to evaluate different types of writing and literature. English 12 is a provincially examinable course where 40% of the mark is determined through a mandatory provincial exam.

PREREQUISITE: English 11

ENGLISH LITERATURE 12

The aim of English Literature 12 is to enhance students' literacy through the study of a body of works representative of the literary heritage of English-speaking peoples. English Literature 12 offers senior students opportunities to examine and appreciate this rich heritage.

Research has shown that reading widely is an important factor in academic success. By reading works that are sophisticated in thought and style, English Literature 12 strengthens the skills needed to acquire information accurately and make informed judgements. Such skill are vital for the educated citizen and lifelong learner.

The study of great works of English Literature increases student's interpersonal skills, aesthetic appreciation, and critical judgement. In addition, it promotes the development of strong communication skills, intellectual discipline, and the open-mindedness required for the world of work and further learning.

Historical Divisions

Historical context is an integral part of the English Literature 12 course. The literary works included in both the Core Studies module and optional modules are grouped in the following historical divisions:

Classical (Greek, Roman) / Medieval
Renaissance / 17th Century
Enlightenment
Pre-Romantic
Romantic
Victorian
Early 20th Century
Late 20th Century

PREREQUISITE: English 11, English 12 recommended.

LANGUAGES

FRENCH 11

Students enrolled in this course are expected to speak French in class on a regular basis. The thematic approach is used to develop vocabulary and introduce more complex language structures.

Emphasis is placed on improving the sophistication of both oral and written expression. Themes to be studied include sports & health, our home, our childhood, fashion and vacations.

PREREQUISITE: French 10 with a minimum grade of C.

FRENCH 12

French 12 is a continuation of French 11. Students enrolling in this course are expected to speak French on a regular basis. Complex tenses and grammatical structures, as well as the subjunctive are taught, and are incorporated regularly into oral and written language. Thematic units include the car, nature & travel, around the house. Students can expect a heavy emphasis on the role plays and conversational French. An important step on your way to becoming bilingual.

PREREQUISITE: French 11 with a minimum grade of C.

SCIENCE

BIOLOGY 11

This course explores living things & their environment. The 3 main themes in Biology 11 include unit & diversity, evolution, & ecological relationships. Within these themes, students will gain a better understanding of the structure, behaviour & interactions of many different groups of organisms including viruses, bacteria, protists, fungi, plants & animals. As well, Biology 11 provides an insight into the problems faced by the world today, such as pollution, population control, & utilization of food & resources. It reveals how living organisms have solved the problems of living with a changing environment over time. Lab work & field work serve to enhance biological investigation.

PREREQUISITE: Science 10

BIOLOGY 12

Biology 12 focuses on cell biology & human biology. Cell biology includes the cell structure, function, processes & applications such as protein synthesis & formation of recombinant DNA. Human biology allows students to develop an interest & understanding of science by looking at themselves & seeing how diverse body systems are integrated to maintain homeostasis.

PREREQUISITE: Biology 11 required with suggested "C+" standing.

CHEMISTRY 11

This is an introductory course to Chemistry as a specialist science. The contents include Atomic Structure and Theory, Periodic Table, Solubility of Salt, Mole Concept (quantitative problems), Radioactive Decay and Organic Chemistry. Related Lab work.

PREREQUISITE: Science 10 required. Math 11 recommended.

CHEMISTRY 12

Chemistry 12 builds on the contents of Chemistry 11. The major areas of study include: Kinetics, Acid-base Theory, Solubility, Equilibrium, and Oxidation Reduction. Practically and computationally oriented with an introduction to several abstract concepts.

PREREQUISITES: Math 11 recommended. Chemistry 11 required.

EARTH SCIENCE 11

Offered in 11/12 not 12/13

Earth Science 11 is an academic course intended to provide students with the background and the desire to investigate the earth, its materials and its processes. Topics of study will include:

Oceanography, Astronomy, the atmosphere, fossils, rocks and minerals, volcanoes and plate tectonics.

PREREQUISITE: Science 10

PHYSICS 11

Physics 11 is an introductory course to Physics. It is recommended that students have a sound Mathematical background.

Course Sections: Motion In One Dimension; Kinetics Dynamics; Special Relativity; Energy; (Mechanical, Heat, Electrical, Nuclear); Waves and Photons - Transmission of Energy; Wave Phenomena; Quantum Theory; and Atomic Structure.

Depending on the interest and time available one of the following topics will be discussed: Applied Optics, Sound, Human Body Physics, Energy, Particle Physics, or Astrophysics.

PREREQUISITE: Math 10 and Science 10 (C+ grade in both recommended.)

PHYSICS 12

Offered in 11/12 not 12/13

Some topics from Physics 11 are expanded upon in a more forward and in depth manner. The intent of this course is to lay a foundation for Post Secondary Education. Course Sections: Vectors, Motion in Two Dimensions, Universal Gravitation, Charges and Currents, Electro Magnetism.

PREREQUISITE: Physics 11 and Math 11.

SCIENCE AND TECHNOLOGY 11

Not offered in 11/12 but will be offered in 12/13

This course will investigate the fields of Science and Technology through the development and solving of scientific, engineering and technical problems. Each of these technical problems will involve research, design, construction, and building to solve the challenge or meet the design criteria. Some of the scientific and technological area covered will be; CAD drafting and design technology, mechanical design and engineering, civil engineering technology, electronics technology, hydraulic technology, and robotics engineering.

Prerequisite: Science 10

FINE ARTS

ART 11

Art Foundations 11 is designed to facilitate a broad range of experiences in 2-Dimensional and 3-Dimensional visual arts. Students will be engaged in creating and responding to a variety of 2-Dimensional and 3-Dimensional art forms, such as drawing, painting, ceramics, sculpture, printmaking, photography and animation (media arts). The course is designed to meet the needs of students who are taking art of the first time and need a foundation class. (Art Foundations 11)

PREREQUISITE: None

ART 12

Art 12 is a continuation of the Art Foundations 11 course. Students are encouraged to develop an independent approach to their studies.

Projects are similar to the Foundations 11 course, but students entering Art studies are encouraged to develop a portfolio of work based on individual studies. It's designed to provide a balanced program of study in both traditional and contemporary 2-Dimensional and 3-Dimensional art forms, such as drawing, painting, ceramics, sculpture, printmaking, photography and media arts. (Art Foundations 12)

PREREQUISITE: Art Foundations 11

CONCERT BAND 11/12

This course is offered outside the timetable and will include students from grades 8 - 12. The class will work together to create a band that has balanced instrumentation and depth of sound. Performances are a required part of this course. (Instrumental Music 11/12: Concert Band)

PREREQUISITE: Basic ability to play an instrument

PHYSICAL EDUCATION

PHYSICAL EDUCATION 11 & 12

This course is considered an Applied Skill. Students enrolling in PE 11/12 will be given "hands on" experience in the area of leadership. They will be given a more active role in the development of the activities to be done. Some of the classes will take place away from the school utilizing community facilities. Emphasis will be on leadership and quality and development of those qualities in each class member. For the program to be successful, certain prerequisites must be understood. Students wishing to take PE 11 or 12 must:

- have an interest in being physically active and in developing their leadership abilities.
- be cautioned about this course if they have any chronic physical disabilities which prevent them from being active.
- have a positive, cooperative and creative attitude.
- be ready for an exciting challenge in personal development.

PREREQUISITE: PE 10

HOCKEY CANADA SKILLS ACADEMY (HCSA)

The Hockey Canada Skills Academy mandate is to "enhance a hockey student's confidence, self-esteem and opportunities in both academics and athletics". HCSA provides OSS students with an opportunity to learn a wide range of knowledge, skills and attitudes about ice hockey. Training and developing takes place in a number of venues including the Sunbowl Arena, school gym, weight room and classroom. It is open to all students, male and female, from grade 8-12. Students will receive ministry credits for PE and/or Leisure and Recreation/Hockey 10, 11 and 12. This program is offered in the first semester only. Application is required. Cost is \$300 for semester one.

PREREQUISITE: Love for hockey.

APPLIED SKILLS

ACCOUNTING 11

Offered in 11/12 but not 12/13

This course introduces the complete accounting cycle. The students will learn how to post to the General Journal and Ledger. In addition, they will learn how to produce financial statements. This course also introduces students to computerized accounting. Upon the completion of this course the student should be able to handle the basic set of accounting records, from the worksheet to the financial statements. Accounting 11 provides the student with the basics of a skill that is required by all businesses. This is a must take course for all future college/university bound business students and anyone who may be planning on owning a business.

PREREQUISITE: None

ECONOMICS 12

Not offered in 11/12 but will be offered in 12/13

This course will introduce you to the exciting world of economics! Through the study of various economic concepts you will be able to better understand the important role economics plays in your world. Learn about stocks and investments, interest rates, government policy, the labour market, economic trends and the effects they can have on your personal wealth. Consumer choice, demand and supply, production resources, different market structures and the impact of government regulation on individual markets will also be examined. Gain a better understanding of global markets, personal finances, taxes and imports and exports, concepts that will benefit you throughout your life. This is a must take course for all future college/university bound business students and anyone who may be planning on owning a business.

PREREQUISITE: None

ENTREPRENEURSHIP 12

Offered in 11/12 not 12/13

All businesses begin with the ideas of entrepreneurs. Entrepreneurs identify and explore opportunities, research the resulting ideas, locate and organize resources, and begin to turn the ideas into reality. Entrepreneurship 12 helps students to gain an understanding of the entrepreneurial spirit in the context of starting a small business and to learn the skills necessary to effectively carry out entrepreneurial activity. Some of the activities students will be involved with are:

- attending the Youth Business Exchange
- running a business through a computer simulation of the market place
- operating a small venture within the school

With the downsizing of companies that has occurred in past years many people are now opening small businesses. This course will offer skills necessary for success when opening a small business.

PREREQUISITE: None

FOOD STUDIES /FOOD AND NUTRITION 11

This is a more intensive course than Foods 10. Students have more independence in their choice of foods prepared. The first half of the term will concentrate on sanitation, preservation and the Meat & Alternates group. The second half of the term concentrates on Fruits & Vegetables, Milk & Cheese and Breads & Cereals.

Prerequisite: None

FOOD STUDIES / FOOD AND NUTRITION 12

This is an intensive foods course. Students will be responsible for many aspects of the foods lab and will become confident in their food preparation abilities. Units include global food issues, eating disorders, food preparation on a budget, exploring food additives, understanding metabolism and energy balance.

Prerequisite: None

TOURISM 11

Not offered in 11/12 but will be offered in 12/13

Tourism offers students opportunities for job entry and career advancement. The tourism industry depends upon a work force which is able to analyze, understand and take action in the present and to visualize and plan for the future. Tourism curriculum meets the needs of the learner and of industry by identifying the ways and means of developing the knowledge, skills and attitudes necessary for further education and/or success in the industry.

PREREQUISITE: None

SHOP and TRADES

AUTOMOTIVE TECHNOLOGY 11

Automotive Technology 11 is an introductory automotive maintenance and service course, covering the following topics; basic engine and drivetrain theory, automotive tools and fasteners, common vehicle service and maintenance procedures, and vehicle braking systems. Practical service operations such as oil changes, battery service, tire changing, cooling system testing, and computerized service manual information are covered in the practical section of this course.

PREREQUISITE: Power Technology 10 strongly recommended.

AUTOMOTIVE TECHNOLOGY 12

Automotive Technology 12 is intended for students that have already successfully completed Auto 11 (however it is not essential). This course will build on skills already learned in Auto 11, with more emphasis on braking and fuel injection systems, advanced diagnostic testing with scantools, and some basic autobody skills.

PREREQUISITE: Automotive Technology 11

COMPUTER DRAFTING 10-12

This is an introductory course in which students will learn the basic principles, and gain skills in technical drawing. Students will learn how to use a CAD program (computer assisted design) to complete a variety of metric, imperial, mechanical and architectural drawings.

Drafting concepts covered will include multi-view, dimensioned, pictorial and working drawings. This course is an essential skill for any students interested in the areas of; graphic arts, engineering, home design, interior design, technical-, vocational-, or trades-architecture.

It is also recommended for any students planning to take senior level metal or wood/construction courses.

PREREQUISITE: None

METAL FABRICATION & MACHINING 11

This course is a continuation from 9/10 Metal Technology. Students will complete a series of skill building activities where students either create projects from a plan or use the design process to create and complete a project. Students develop their skills in welding, machining, and fabrication. The final project will be a creation of the student's own design that satisfies a theme. The students will learn how to create shop drawings and how to act safely in a shop setting and around machines. Student will also learn how to approach machines and safely use the lathe, milling machine, drill press, grinder, mig welder, arc welder, oxy acetylene welder, how to cast aluminium and work sheet metal. It is strongly recommended that students have credit for 9/10 Metal Technology before taking this course. Coveralls are required for reasons of safety and cleanliness.

PREREQUISITE: Metal Technology 10

METAL FABRICATION & MACHINING 12

This elective will benefit students who enjoy metalwork as a hobby or those who want to perfect their skills for trades school. Students will be expected to respond to a challenge were they are required to fabricate an artifact using all of the machines in the shop. The students will learn how to create shop drawings and how to act safely in a shop setting and around machines. Student will also learn how to approach machines and safely use the lathe, milling machine, drill press, grinder, mig welder, arc welder, oxy acetylene welder, how to cast aluminium and work sheet metal. This course involves mostly practical work. Students further develop their skills in the areas of machining, fabrication, welding, and production work.

PREREQUISITE: Metal Fabrication & Machining 11

WOODWORK 11

This elective is for students who want to explore woodworking in a traditional sense. All classes will have a mass production component, where all students work together to design and create a project. The students will learn how to create shop drawings and how to act safely in a shop setting and around machines. Student will also learn how to approach machines and safely use the band saw, drill press, planer, jointer, mitre saw, sanders, routers, lathe and table saw. (Carpentry and Joinery 11)

PREREQUISITE: None

WOODWORK 12 – CARPENTRY AND JOINERY

This is a woodworking course to allow students to build on knowledge learned in Woodwork 11. Students will expand their skills in millwork, joinery, furniture design and construction. Cabinet making including the construction of drawers, and doors will be covered. The safe use and maintenance of all woodworking machines will also be covered.

PREREQUISITE: Wordwork11

COMPUTER APPLICATIONS

INFORMATION AND COMMUNICATIONS TECHNOLOGY 11

If you are interested in photography, video and photo editing, and animation, this is the course for you. Students will develop and refine their technological skills, knowledge and abilities through this course. Given the rapidly changing technologically advanced society in which we live, this course is invaluable for all students. This course is divided into a variety of units. Each Unit will be given an introduction to Networks and will explore computer hardware (each student will tear down and rebuild a computer). In addition, students will select 2 other units which may include:

- Animation & 3D design
- Computer Video Production
- Web Page Development
- Introduction to programming
- Advanced Office Applications
- 2D graphic design & Publishing
- Photo Editing & Manipulation
- Advanced Web Page Development
- Programming structures & routines
- Multimedia creation to presentation

(ICT: Modular Survey Course 11)

PREREQUISITE: None

INFORMATION AND COMMUNICATIONS TECHNOLOGY 12

This is a continuation of Information Technology 11. Students will embark on an advanced exploration of the following topics:

- Animation & 3D design
- 2D graphic design & Publishing
- Computer Video Production
- Advanced Web Page Development
- Network Technologies
- Programming structures & routines
- Advanced Office Applications
- Advanced Office applications

(ICT: Modular Survey Course 12)

PREREQUISITE: Information and Technology 11

CAREER PREPARATION

ACCELERATED CREDIT ENROLLMENT IN INDUSTRY TRAINING (ACE IT)

ACE IT is an industry certification program for BC secondary school students, partnering with the ITA (Industry Training Authority) and British Columbia's Ministry of Education. The ACE IT program complements Secondary School Apprenticeship. The ACE IT program enables students to earn both graduation credits and credit for the first level of technical training associated with an Industry Training Program or apprenticeship (dual credit).. Through work experience placements, they can also earn credit towards the on-the-job component of an Industry Training Program. This an opportunity for high school students to get a head start on earning their credentials in one of the more than 100 trades or industry occupations that are accredited or recognized by the Industry Training Authority (ITA). Students interested in signing up for these courses and programs are encouraged to check out the Career Preparation Component at School District 53's Web Site ... www.sd53.bc.ca

SECONDARY SCHOOL APPRENTICESHIP (SSA)

The main goal of the Secondary School Apprenticeship is to allow students to begin apprenticeship training as part of their secondary school education program. SSA also provides students with a smooth transition from school to work, and an earlier start to certifying in a trade; enhances students' existing trade-specific job readiness skills, or provides opportunities for the development of new skills; provides students with access to up-to-date technical training that may not be available in secondary school; helps prepare students to enter the world of work with the skills, attitudes, and sense of responsibility necessary to be successful; encourages students to pursue academic goals and to graduate; facilitates students' understanding of the similarities and differences in behaviour standards between the workplace and school. Like Work Experience 12, SSA involves the student in Workplace Health and Safety, Securing and Maintaining Work, Workplace Application and Education and Career Planning. A student in the SSA program may receive 16 credits / 4 courses: SSA 11A, SSA 11B, SSA 12A and SSA 12B from SSA training toward graduation. A student in this program is eligible for a \$1000 scholarship after graduation, and can obtain 480 hours of paid apprenticeship training before graduation.

WORK EXPERIENCE 12

The primary goal of Work Experience is to help students prepare for the transition from secondary school to the world of work. Through work experience, students have the opportunity to observe and practice generic employability skills required in the workplace, as well as technical and applied skills relating to specific occupations or industries. Work Experience also helps to... connect what they learn in the classroom with the skills, knowledge and attitudes needed in the workplace; ... gain the knowledge, skills, and attitudes needed to be successful in the world of work; develop job readiness skills for specific occupations and careers; understand the similarities and differences in behaviour standards between the workplace and school. Through Work Experience 12 the student will cover many learning outcomes including Workplace Health and Safety, how to Secure and Maintain Work, how to Apply to a Workplace and be directly involved in the Education necessary for Career Planning. In Work Experience 12 students are required to complete 100 hours of related work experience, and also required to complete 25 hours of related career and work experience related course material.

OTHER COURSES

LEADERSHIP 11

This course is offered to Grade 11 and/or 12 students and will deal with the theoretical and practical applications of Leadership. Students enrolled in this course will learn how to run meetings, utilize effective communication skills, review resume and interview skills, practice effective public speaking skills, review goal setting and time management strategies, be involved in the promotion and running of school events and developing habits and routines which will facilitate effectiveness as an individual and a leader.

PREREQUISITE: None

PEER TUTORING 11

This course allows students who have demonstrated proficiency in a particular subject to share their expertise with other students. Students enrolled in this course will be expected to assist their peers, usually younger students, by employing one-to-one instruction, based on Ministry Curriculum.

PREREQUISITE: Tutors must be proficient in the courses they are tutoring.

COURSE OFFERINGS OUTSIDE OF OSS

There are many ways to receive an education outside of a regular classroom. However, it is our belief that a student's best chance of educational success takes place in a classroom with a teacher. For this reason, students are encouraged to take classes within the school's timetable and use other courses to supplement their education.

SELF DIRECTED STUDIES

Can be counted as a four-credit course: however, this course usually cannot be counted as a "Foundation Studies"; it may only be used as a Selected Studies or Additional Subject for Graduation. Self-Directed Studies are student-initiated projects conducted under the supervision of a supporting staff member (teacher). Together with the teacher, a student works on a schedule of performance and curriculum;. This is a Locally Developed Course.

INDEPENDENT DIRECTED STUDIES

This course allows students to initiate, develop and complete their own courses under the supervision of a teacher. An IDS course must be based upon the learning outcomes of Ministry-Authorized or Locally Developed Course. A maximum of 2 credits may be earned for each IDS course.

EQUIVALENCY

Equivalency gives students in grade 11 and 12 the opportunity to pursue learning outside of school that may be equivalent to a curriculum. It allows students to obtain credit for learning that has taken place. Examples of equivalency may be languages learned in another country (Rotary Exchange), London Conservatory music lessons --

For Example: gr. 8 is equivalent to grade 11 music
gr. 9 is equivalent to grade 12 music

CHALLENGE

A student with a strong documented background in a course area may challenge a course. The process involves:

1. Strong evidence that he or she will succeed. (This readiness should be determined by the school in consultation with student and parents.)
2. The student must demonstrate that he or she has met the learning outcomes and demonstrated this successfully.

NOTE: Course Fees - There are no course fees. All standard costs are paid for by the school.

DISTANCE EDUCATION (CORRESPONDENCE COURSES) ~ OUTREACH

Students wishing to take a distance education course through the school district Outreach program should contact a school counsellor to make arrangements.