

**FORT NELSON SECONDARY SCHOOL**  
SCHOOL DISTRICT # 81

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**COURSE SELECTION HANDBOOK**  
**2010-2011**

## FORT NELSON SECONDARY SCHOOL

To the Student:

For a successful educational experience, it is important for a student to select a program of studies which meets individual abilities, interests, and goals as much as possible.

This handbook has been prepared to assist in this process by:

- a. making students and parents aware of the courses offered in the school;
- b. describing course or subject area content;
- c. providing students and parents with the information necessary to make wise program decisions.

You are encouraged to take the time to look through this handbook. Discuss your plans and interests with your parents, counsellors, and teachers. Their advice will help you make good decisions. Remember that your course selections now will help determine your academic future.

The school timetable is based on student course selections, so it is critical that students choose carefully. Take time to familiarize yourselves with new graduation requirements. In making your program choices, consider what the expectations are in the world beyond secondary school.

Choose well, work hard, and have a great year.

Bill Dolan  
Principal

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## MESSAGE TO STUDENTS

One of the purposes of this handbook is to assist you in making course decisions that will impact your opportunities for post secondary training and employment opportunities. Decisions about the courses you wish to take cannot be made from information in this booklet alone. Your decisions must include feedback from parents and counsellors, and must be measured alongside your career and personal learning plan. You must always check to ensure you are meeting graduation requirements from the Ministry of Education as well as any entrance requirements put forth by post secondary institutions. The right course selections coupled with quality work and serious effort will ensure that your years at Fort Nelson Secondary will be to your greatest advantage.

### **Time table construction & course changes.**

Make your course choices carefully. Course offerings are based on student selections and courses may or may not be offered according to the number of students requesting a particular course. During the spring, the master timetable is constructed around these choices and resulting course changes are very difficult to make.

In isolated circumstances a few changes are approved but these must be made through the counsellors during the first few days of the semester. After the course drop deadline no student is permitted to drop a course before consulting with a counsellor and/or the Principal and obtaining parental permission.

## GUIDELINES FOR STUDENT COURSE PLACEMENT

### **General**

The best indicator for success in any course is the successful completion of the preceding course. On that basis, students should achieve a minimum final mark of 50% in order to gain credit for any course and proceed to the next course level. Students with exceptional abilities in particular subject areas may be eligible for advanced course placement. Students requiring additional academic support may be recommended for placement in an alternate course.

Given that various personal circumstances may impact on student progress, students who receive a final grade of 40 - 50% may be eligible for an administrative review of their subsequent course

placement. An administrative review may include consultation with the student, parents, counselling staff/Student Services personnel, subject teachers and/or other involved stakeholders.

## B.C. SECONDARY SCHOOL GRADUATION

### **GRADUATION PROGRAM 2004 EXAMS**

As a student in the 2004 Graduation Program, you are required to write **at least five provincial exams**. Exams are mandatory in the following subject areas.

- ◆ Grade 10 English
- ◆ Grade 10 Science
- ◆ Grade 10 Mathematics (based in the course that you choose)
- ◆ Social Studies 11, Civics 11, BC First Nations 12
- ◆ English 12, Communications 12

Exam results are blended with the classroom mark to generate the final course mark. Grade 10 and 11 exams count for 20% of the final mark. English 12 or Communications 12 exams count for 40% of the final mark. First Nations 12 exam counts for 20% of the final mark. The above exams are mandatory.

### **All other Grade 12 exams are optional.**

In other words, you can take a Grade 12 course that has an optional graduation program exam and choose not to take the exam. In that case, 100% of the final mark comes from your classroom work. If you choose to write an optional Grade 12 exam, it counts for 40% of the final mark. Your classroom work counts for 60%. If a student chooses to write an optional Grade 12 exam, that exam mark is blended to the school mark and becomes the final mark. A student cannot choose to disregard the final exam mark once they have written the exam. Please note that some post-secondary institutions require Grade 12 exam scores for entrance. Writing Grade 12 exams also means you could qualify to win provincial scholarships. Consider these facts carefully as you plan your courses over the next two or three years.

## 2004 GRADUATION PROGRAM

**Eighty credits in Grades 10 - 12 (equivalent to 20 four-credit courses) are required for graduation.**

### **Required Courses:**

Language Arts 10	4 credits
Language Arts 11	4 credits
Language Arts 12	4 credits
Social Studies 10	4 credits
Social Studies 11, Canadian Civics 11 or BC First Nations Studies 12	4 credits
Science 10	4 credits
Science 11 or 12	4 credits
Mathematics 10	4 credits
Mathematics 11 or 12	4 credits
Physical Education 10	4 credits
Fine Arts or Applied Skills 10, 11 or 12	4 credits
Planning 10	<u>4 credits</u>

**Total: 48 credits**

### **Elective Courses:**

**Students must earn at least 28 elective credits. These credits can be for:**

Additional Grade 10, 11 or 12 Ministry-Authorized courses  
External Credentials  
Board / Authority Authorized courses  
Post-secondary credits, and/or  
Independent Directed Studies

**Total: 28 credits**

### **Graduation Transition**

Students earn 4 credits for their Graduation Transition assessment

**Total: 4 credits**

**Overall Total: 80 credits**

Be careful when you drop a course late in the school year -- it could be the one you need to graduate.

*Don't forget that post-secondary institutions often require you to complete specific courses to get into certain programs. Careful planning in Grades 10, 11 and 12 will ensure you have all the courses and credits you need.*

## Grade 8 Requirements

Students entering Grade 8 must take:

- English 8
- Mathematics 8
- Science 8
- Social Studies 8
- French 8
- Physical Education 8
- Health and Careers 8
- Fine Arts/Applied Skills 8

The Fine Arts/Applied Skills (FNASK) survey course includes short courses in Woodwork, Applications/Information Technology, Art, and Home Ec. Students may also elect to take Band.

Students who have significant difficulties in academic core courses may be placed in the Strategies classes assists in the transition from elementary to high school. Recommendation for placement will be made in consultation with parents, previous teachers and/or school-based team.

## Grade 9 Requirements

Admission to the Grade 9 courses requires passing marks in the corresponding grade 8 courses.

Grade 9 students must take six compulsory and three elective courses, using these guidelines:

1. Students must take:

- English 9
- Social Studies 9
- Mathematics 9
- Science 9
- Physical Education 9
- Health and Career Education 9
- Information Technology 9
- 1 Fine Art or Applied Skills elective
- 1 elective of the student's choosing

2. Students considering post secondary should take French 9.

3. Elective courses in Grade 9 include:

- Art 9
- First Nations Humanities 9
- Band 9
- Jazz Band 9
- Drama 9
- Metals 9
- Drafting 9
- Woodwork 9
- Information Technology 9
- HomeEc 9

## Grade 10 Requirements

Admission to Grade 10 courses requires passing marks in the corresponding grade 9 courses.

Grade 10 students must take six compulsory and three elective courses, using these guidelines;

1. Students must take:

- English 10
- Social Studies 10
- Mathematics 10
- Science 10
- Planning 10
- Physical Education 10
- 1 Fine Arts or Applied Skills Elective
- 1 elective of the student's choosing

2. Students considering university should take French 10.

3. Elective courses in Grade 10 include:

- Art 10
- Band 10
- Drafting 10
- Drama 10
- Jazz Band 10
- Metals 10
- Woodwork 10
- Home Ec 10
- Information and Technology 10
- Mechanics 10
- Outdoor Survival 10
- French 10
- First Nations Humanities 10



## Grade 11 Requirements:

1. Students must take:
  - English 11 or Communications 11
  - Social Studies 11
  - Mathematics 11, Essentials of Math 11 or Applications of Math 11
  - A grade 11 science course (Biology 11, Chemistry 11, Earth Science 11, Physics 11, or Science & Technology 11)
2. Students may take any elective for which they meet the prerequisite. Students require at least one Fine Art or Applied Skill for graduation.

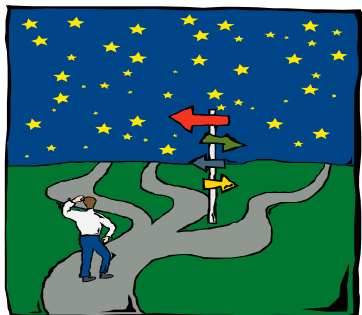
Elective courses in grade 11 include:

- Acting 11
- Art 11
- Band 11
- Drafting 11A
- Visual Arts/Media Arts 11.
- Foods Studies 11
- ICT 11
- Carpentry and Joinery 11
- Auto Tech 11
- Metal Fab and Machining 11
- Outdoor Survival Education 11
- Physical Education 11
- French 11
- Teacher Assistant 11
- WEX 12A / 12B

3. If possible, students should take courses which lead to grade 12 courses. Otherwise they may find themselves with limited timetable options in their grade 12 year.

4. Grade 11 students must continue to work on Graduation Transitions completion throughout the year, on a mostly independent basis.

**Graduation Transition is a 4 credit, Graduation Requirement.**



## Grade 12 Requirements

Grade 12 students must ensure, above all, that the minimum requirements for graduation have been met.

Students must have a minimum of 80 Credits including Graduation Transitions.

Students must take four courses at the grade 12 level, including English 12 or Communications 12.

The remaining courses can be made up of electives from either grade 11 or 12. Students should also take care to ensure that their course selections will also meet entrance requirements to the post-secondary programs they are planning to attend. Here are some planning guidelines:

1. Students must take:
  - English 12 or Communications 12
  - At least 3 other grade 12 courses
  - Courses to satisfy any missing grade 11 requirements.
  - and complete their Graduation Transition.
2. Students may take any other grade 11 or 12 elective courses for which they are eligible.

If you have questions or concerns about any of the programs or services F.N.S.S. offers, please feel free to contact the appropriate personnel.

Mrs. Denise Stephenson  
• Course advisement

Mrs. Lynne MacNeil  
• Course advisement

Mr. Ray Wolsey,  
• Counsellor

Mr. Bill Dolan, Principal  
• General concerns

If you wish to preview any provincial BC curricula for course content and learning outcomes, they are available on the Internet at:  
<http://www/bced.gov.bc.ca/irp/>

Please note that this is only applicable to provincial curricula and does not include any locally developed or Board Authorized and Approved courses specific to FNSS.

## STUDENT SERVICES

### Modified Programs

These classes are designed to offer an individualized program in a small class setting. The environment allows students to develop a healthy self-concept, and to gain self-esteem and confidence in their abilities.

Recommendation for admission to these classes is through consultation with the School-based Team, Student Services Resource Teachers and parents. Students registered in modified classes are recognized as at least 2 years behind their expected grade level in reading and/or math skills.

The focus is on individual students and their progress toward the goals as outlined in the Individual Education Plan, and mastering basic literacy and computational skills combined with appropriate career/life skills.

### Lifeskills

Lifeskills Program is designed to accommodate the educational needs of those students who require a more individualized approach than can be provided in the regular academic classroom. This program endeavours to instill and develop skills the students will require to become independent and contributing members of society once they leave school. The outcome of this course of study will be a Grade Twelve School Completion Certificate and a planned transition to further education (technical and/or academic), an apprenticeship program, or the work force.

### Enrichment

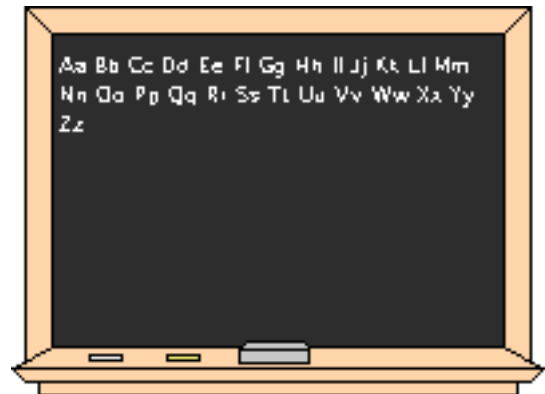
School District #81 recognizes the importance of providing a broad base of enrichment opportunities for interested students. Enrichment may be provided in a generalized manner for any student or students at FNSS. Enrichment for a student may involve something as simple as one-on-one interaction with the Resource Centre teacher in conjunction with the classroom teacher, or it may evolve into more complicated classroom work, or individualized study reflected in a student's learning plan or in a student's IEP.

## COUNSELLING SERVICES

The Career Development Coordinator is based in the school and provides the following services:

- course selection and adjusting programs
- assistance with program planning including meeting graduation requirements and entrance requirements for post-secondary education
- assistance with career planning
- providing information about post-secondary training opportunities
- providing information regarding financing post-secondary education
- providing information on student exchange programs and other educational opportunities
- instruction and assistance with study skills and time management

Students, parents or teachers may contact either of the counsellors directly or make appointments through the school office.



## **EXTERNAL COURSES**

A Ministry-approved External course is a Ministry-Authorized course. It is an organized set of learning activities developed and/or offered outside the British Columbia School System and set out in the Graduation Requirement Order. Students receive graduation credit for successfully completing an External Course. These courses are of an equivalent standard but do not have a match of learning outcomes to other Ministry-authorized senior secondary courses. External Courses may be included in areas of Music, Languages, Sports, youth Development, Industrial and Occupational Courses.

If you have questions about your eligibility for earning credits towards graduation or to find out more information about External Courses contact your secondary school counsellor or take a look at the following Ministry of Education web site:

<http://www.bced.gov.bc.ca/graduation>

## **DISTRIBUTED LEARNING COURSES**

The distributed learning classroom is set up to support students that are taking distributed learning courses (online or correspondence), as well as providing a quiet environment for students needing a place to complete work from other classes. In addition to a quiet study environment, this class offers qualified teacher support during all blocks, access to computers for online courses, and access to online conferencing software to assist both online and correspondence students.

Ministry of Education policy allows grade 10-12 students to take distributed learning courses at no cost. For more information contact Ms. Burt or the Learn Now website.

<http://www.learnnowbc.ca>

## **DUAL CREDIT PROGRAMS**

These programs are available through Northern Opportunities and ACE-IT Programs.

Northern Opportunities is an innovative Northeastern BC regional partnership of secondary and post secondary institutions, industry and community, all with a common goal: to provide a seamless learning pathway from secondary school to post secondary trades/technology training and careers.

Programs combine high school, college studies

and work based training, enabling students to simultaneously earn high school graduation and advanced credit in post secondary and /or industry certification. (Currently these include Hairdressing and Millwright Welding Level C.)

## **CAREER PROGRAMS**

Career Programs are local educational programs focusing on a career or career sector that combine related in-school course work with a work experience component. Career programs prepare students for entry into the workplace or continued studies at the post-secondary level in a specific career sector and emphasize generic employability skills. Eligible work experience courses include the following:

WEX 12A Ministry-Authorized Work Experience

WEX 12B Ministry-Authorized Work Experience

SSA 11A Secondary School Apprenticeship

SSA 11B Secondary School Apprenticeship

SSA 12A Secondary School Apprenticeship

SSA 12B Secondary School Apprenticeship

Career Programs correspond to the eight Focus Areas used in the 2004 Graduation Program.

The Focus Areas and associated codes are:

XA Business and Applied Business

XB Fine Arts, Design and Media

XC Fitness and Recreation

XD Health and Human Services

XE Liberal Arts and Humanities

XF Science and Applied Science

XG Tourism, Hospitality and Foods

XH Trades and Technology



## SECONDARY SCHOOL APPRENTICESHIP

If you are in grade 11 or 12, male or female, you could be collecting credit for an apprenticeship in a trade. You can be indentured as an apprentice at 15 years old. The Secondary School Apprenticeship Program offers students the opportunity to gather credit in grades 11 and 12, while working for an employer as an apprentice. Consider the following:

- If you are working now, you may be working in an apprenticeable trade.
- You may know of a business where you could begin your apprenticeable trade.
- You can earn up to 16 credits towards graduation

SSA 11A (4 credits) SSA 11B (4 credits)

SSA 12A (4 Credits) SSA 12B (4 credits)

- Some students are able earn this credit towards graduation and get paid as well.
- Part-time jobs, holidays and summer employment count as long as you are working in your apprenticeship area.
- This is a regular apprenticeship program, approved and sanctioned by the Ministry of Education and the Industry Training and Apprenticeship commission.
- You may be eligible for a \$1000 scholarship.

Some examples of apprenticeship trades common to Fort Nelson include:

- Automotive Service Technician
- Commercial Vehicle Mechanic
- Mobile Crane Operator
- Plumber
- Tire Repairer
- Welder
- Baker
- Industrial Gas Fitter
- Millwright
- Painter and Decorator
- Sheet Metal Worker
- Cook

Contact Mrs. Stephenson for more information



## What is Northern Opportunities?

Northern Opportunities is an innovative northeastern BC partnership. Working to provide young people with a seamless learning pathway from secondary school to post secondary trades/technology training and careers. Programs combine high school; college studies and work based training enabling you to simultaneously earn your high school diploma and advanced credits in post secondary and or industry certification.

## How does it work?

Students normally enter a Northern Opportunities program at the beginning of Grade 11 or 12. When you graduate you'll have completed the requirements for a high school diploma, and technical theory toward your skilled trade, accumulated hours of work experience and developed enhanced employability skills.

Agreements between the program partners may enable you to receive "dual credits" both high school and college credits and begin college programs while still in high school.

## ACE-IT

ACE IT (Accelerated Credit Enrolment in Industry Training) is an industry certification program for BC secondary school students. The 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.

Through work experience placements, they can also earn credit towards the on-the-job component of an Industry Training Program. Programs currently available through FNSS; Hairdressing, Welding, Aircraft Maintenance Engineering, Culinary Arts (Additional Programs may be available through partnership with School Districts 59 and 60. See Mrs. Stephenson in our Career Center for information.)

## HAIRDRESSING

The FNSS Hairdressing program will provide students with an exciting opportunity to explore Hairdressing as a viable career choice through the integration of classroom theory and practice. Students will begin practice on mannequins and as they become proficient, progress to working on each other and clients from the community.

Students completing the FNSS Hairdressing program will receive 28 credits toward their secondary school graduation while working toward their career goal. Upon completion of the 700 hour school based hairdressing program, students require an additional 800 work place training to have the skills and knowledge necessary to write the provincial exam qualifying them as a hairdresser in BC.

Student must maintain an average of 70% or higher on both theory and practical work. After graduation from the Hairdressing program, a diversity of job possibilities will be open to the students as they choose from a variety of careers including hairstylist, hair colourist, educator, platform artist, makeup artist or texture specialist. Graduates may find employment working on cruise ships, day spas, resorts, product sales, or even opening their own salon after gaining some experience.

### Enrollment Prerequisites

Students must:

- have a serious interest in hairdressing as a career choice
- have a service-oriented personality and a positive attitude toward work
- have completed grade 10 and most grade 11 academics
- complete an oral interview

### Hairdressing Program Description

Professional Development - Salon Ecology - Salon Management - Anatomy and Physiology - Basic Electricity - Basic Chemistry - Trichology - Facial Analysis - Precision Haircutting (with scissors, razor, clippers) - Chemical Texturizing - Hair Coloring - Retail Sales Strategies - Effective Communication skills - Team Building - Volunteer Community Service - Exploration of Hairdressing (related career choices)

Courses consist of: Hairdressing 11A, 11B, 11C, 12A, 12B, 12C, 12D, WEX 12A

## PROFESSIONAL COOK TRAINING PROGRAM

(Dual Credit program offered at Chalo School)

A career in the **culinary arts** is very rewarding. Graduates of the PCT program find employment in a variety of settings. Professional Cook Training is a progressive three level program currently offered at Northern Lights College, Dawson Creek Campus; Level 1 training is available to FNSS students in Fort Nelson through a partnership with Chalo School. Students choosing this program will be learning and working at the Chalo School cafeteria under the guidance of a Red Seal Journeyman Chef. Level 1 training includes:

- Core Skills
- Soups, stocks, and sauces
- Cold kitchen production
- Short order production
- Main entrees
- Bake shop

Students achieving 70% or higher will receive credits for Professional Cook Training Level 1 from Northern Lights College.

*(See Mrs. Stephenson or Mrs. MacNeil in our Career Center for information.)*

## TRANSITION TO TRADES PROGRAM OVERVIEW

The objective of the program is to provide the student with the basic skills and knowledge in the areas of machine tool use, mechanical maintenance and construction in industrial settings. In addition, Fort Nelson is offering a Transition to Trades Program, an introduction to safety and basic level one training in a variety of trades with possibility of specialization in the second semester. Offerings available include Millwright, Carpentry, or Welding. Metalwork 9 or 10 is suggested as prerequisite for Transition to Trades program.

The school-based trades training will prepare students for entry-level employment. Basic theory and related information along with hands-on shop instruction and practice will assist students in becoming competent in level 1 technical training. Interested students should see Mrs. Stephenson for more details and for an application. The application process includes a orientation meeting, an interview and completion of Language Arts 11, Social Studies 11 and a Math 11 and registration in the following courses:

- Trades Preparation 11
- Metal Fabrication and Machining 11
- Industrial Employment Education 12
- Carpentry and Joinery 11 (or suitable elective)

## COURSE DESCRIPTIONS (By Departments)

### ENGLISH

All English Language Arts courses focus on the expressive and functional purposes of language and its uses in a wide variety of contexts. The courses provide a framework in which students can develop skills in critical thinking, problem solving, clear communication, and both independent and cooperative work.

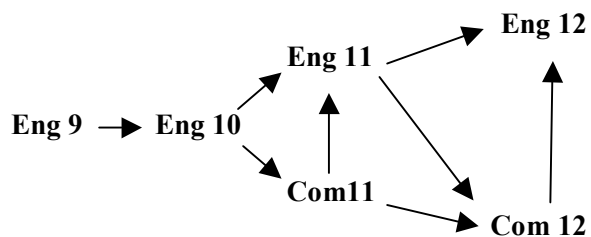
Students are encouraged to:

- communicate effectively in written, spoken, and visual forms
- develop positive attitudes toward language learning
- make connections to other areas of study and to life outside the classroom
- think critically, creatively, and reflectively
- appreciate their own culture and the culture of others
- use technology

Students can take English 9, 10, 11 and 12 in sequence, or they can reach the curricular outcomes with adapted teaching strategies by enrolling in Communications 11 and 12.

**Communications courses will satisfy graduation requirements but they may not meet the entry requirements for some post-secondary institutions.** It is recommended that students remain in the regular English program as much as possible.

In general, if students enter the Communications program, they may return to the regular English program through the administrative review process or as illustrated by the following chart:



### English 8 (MEN--08)

English 8 focuses on the continued development of fundamental reading and writing skills, along with listening, speaking and viewing. Students will read a variety of genres, including fiction and non-fiction novels, short stories, poetry and plays.

### English 9 (MEN--09)

*Pre-req: MEN--08*

In English 9 the student will acquire fluency in language through personal and critical writing. Through the study of forms of literature such as short stories, poetry and novels, the student will acquire an understanding of literary terms and grammatical structure including parts of speech, sentence types and sentence syntax.

### English 10 (MEN--10)

*Pre-req: MEN--09*

In this course, students will acquire fluency in language through personal writing and through the study of grammatical structure including parts of speech, sentence types, and sentence syntax. Students will acquire oral fluency through role playing, oral presentation, and dramatization of literature, and will acquire an appreciation for all main literary forms (plays, poetry, short story, novel, essay). The course has a provincial final exam worth 20% of the final mark.

### English 11 (MEN--11)

*Pre-req: MEN--10*

This is a required course for all academic programs. The course focuses on developing students' analytical skills - skills that form the foundation for the English 12 program. In addition to maintaining reading and writing skills developed through grades 8-10, special emphasis is placed on the development of critical responses to literature, and on the analysis of poetry and prose selections for theme and overall effectiveness. Topics covered in this course are novels, drama, composition, poetry, short stories, and grammar. The research paper is introduced as well, focussing on research and proper documentation. A mandatory final exam will be written.

### Communications 11 (MCOM-11)

*(Teacher Recommendation)*

Communications 11 is designed for students who had difficulty meeting the outcomes of English 10. Focus is on developing the knowledge and skills needed to communicate effectively through listening, speaking, writing, reading, and viewing. Students will develop these skills through the study of a wide variety of literature, including short stories, poetry, novels, and drama. Writing skills and vocabulary development are important components of this course.

**English 12 (MEN--12)***Pre-req: MEN--11*

English 12 is required for all universities and most post-secondary programs. Students will further develop skills in editing, reading comprehension, prose and poetry interpretation, and composition. Special emphasis is given to analytical skills that promote critical reading and polished writing.

This course has a provincial final exam worth 40% of the final mark.

**Communications 12 (MCOM-12)***Pre-req: MCOM-11 or Teacher**Recommendation*

Communications 12 continues to develop the literacy skills central to Communications 11. On completion, students should be able to apply the writing process and the rules of standard writing usage, write sentences using a variety of structures, write multi-paragraph compositions with unity, coherence and logical development, and respond to literature. Students should also be able to perform basic analyses of literature, read and comprehend at the literal, inferential and critical levels, and apply a variety of techniques such as skimming, summarizing and previewing. Students will also develop and utilize listening, speaking and viewing skills.

This course has a provincial final exam worth 40% of the final mark.

(This course satisfies the Language Art 12 graduation requirement but may not provide direct entrance to most post-secondary programs.)

**SOCIAL STUDIES**

The provincial Social Studies curriculum focuses on most aspects of citizenship and social responsibility. The goal of social studies is to continue the development of thoughtful, responsible, active citizens who are able to acquire the needed information to consider many points of view and to make reasoned judgments. The Social Studies curriculum provides students with opportunities to learn about their communities, their province, the country and the world.

Students with a strong interest in Social Studies may continue their studies by enrolling in Geography 12, History 12, Law 12, or BC First Nations Studies 12.

**Social Studies 8 (MSS--08)**

Social Studies 8 includes basic map skills, current events, and a survey of history from the Roman Empire, through the Middle Ages and on to the Renaissance. After completing this course, students should be able to make the connection between history and modern society.

**Social Studies 9 (MSS--09)***Pre-req: MSS--08*

Topics covered in Social Studies 9 include Canadian history from the early settlers (1600's) to the War of 1812. Other major topics included are the French Revolution, the Rise of Nationalism, the Industrial Revolution, Imperialism, geography, and current events.

**Social Studies 10 (MSS--10)***Pre-req: MSS--09*

The Social Studies 10 course is divided into 4 sections. Canadian history (with the large influx of European immigrants to Western Canada), geography, economics and current events.

**Social Studies 11 (MSS--11)***Pre-req: MSS--10*

Social Studies 11 is a survey course of Canadian issues and problems. Students will study 20<sup>th</sup> century Canadian history, geography and government to gain an understanding of the shaping of Canada by historical events both here and in other countries. Skills are emphasized as much as knowledge of content.

The course has a provincial final exam worth 20% of the final mark.

**BC First Nations Studies 12 (MFNS-12)**

This course provides students with accurate, reliable information about First Nations values, beliefs and traditions. It is intended for all learners in an effort to develop an appreciation and respect for the similarities among and differences between the diverse cultures of the world. By focussing on the perspectives and experiences of First Nations people and by exploring their rich and diverse cultural heritage students will gain an understanding of who First Nations people are and why they are an important part of our diverse heritage.

The course has a provincial final exam worth 20% of the final mark.

(This course satisfies the grade 11 social studies requirement.)

**Geography 12 (MGEO-12)**

*Pre-req: MSS--11*

This course is designed to give the student a good understanding of the physical world and the forces that shape the environment. Topics studied will include:

- Climates, vegetation and soils
- Land forms and the formation of the earth
- Man's relationship with the environment, and control of resources
- The use of topographical maps

This course has an optional provincial final exam worth 40% of the final mark.

**History 12 (MHI--12)**

*Pre-req: MSS--11*

This course is a study of world history since 1918. History 12 deals with political problems and the causes for events such as the two world wars, the Russian and Chinese Revolutions, American foreign policy, and the spread of Communism. Considerable reading is required, and time will be devoted to current events.

This course has an optional provincial final exam worth 40% of the final mark.

**Law 12 (MLAW-12)**

**Pre-req: MSS--11 or MCIV-11**

This course will provide the student with an understanding of the Canadian legal system, its evolution, branches and procedures. Although it is not intended to make students into lawyers, it will provide useful background to help students understand the various situations that arise in business and personal life. It will develop an appreciation of the role played by our legal system in preserving civil rights and social order, and facilitating social reform. Units of study include: origins of law, civil liberties, law of Torts, criminal law, law of contracts and family law. Students will be expected to examine cases in law, hold mock trials, and visit the law courts. There is no provincial exam for this course.

**Social Justice 12 (MSJ-12)**

This course provides students with a history of injustices throughout the world. Students will work towards being able to critically look at the causes of injustice and apply critical thinking skills and ethical reasoning to explore a variety of social justice issues. Students will understand what it means to act in a socially just manner and realize their ability to become agents of positive change. Students will participate in activities which benefit their community.



## MATHEMATICS

### MATHEMATICS

*The Common Curriculum Framework for Grades 10–12 Mathematics* includes pathways and topics rather than strands as in *The Common Curriculum Framework for K–9 Mathematics*.

Three pathways are available: Apprenticeship and Workplace Mathematics, Foundations of Mathematics, and Pre-calculus. A common Grade 10 course (Foundations of Mathematics - Pre-calculus) is the starting point for the Foundations of Mathematics pathway and the Pre-calculus pathway. Each topic area requires that students develop a conceptual knowledge base and skill set that will be useful to whatever pathway they have chosen. The topics covered within a pathway are meant to build upon previous knowledge and to progress from simple to more complex conceptual understandings.

#### STUDENTS WHO ARE TAKING MATH 10 IN 2010/11:

For the 2010-2011 school year, FNSS will implement the new grade 10 curriculum with the courses “Apprenticeship and Workplace Mathematics” and “Foundations of Mathematics - Pre-calculus.” In 2011 we will offer the new curriculum to grade 11, and by 2012 we will be offering the new curriculum to grade 12.

#### Apprenticeship and Workplace Mathematics

This pathway 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 work force.

#### Foundations of Mathematics

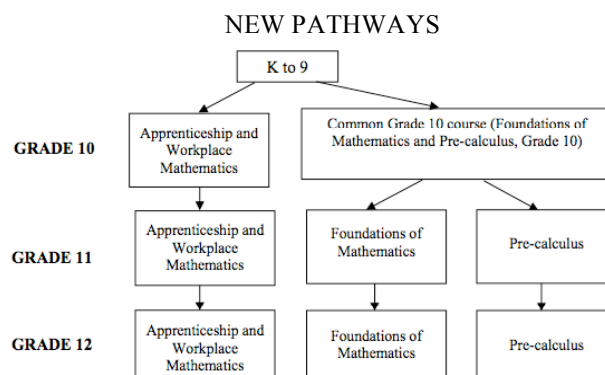
This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus.

#### Pre-calculus

This pathway 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.

**However, while all three pathways meet graduation requirements, they may not**

**necessarily meet the entry requirements in post-secondary institutions.**



#### STUDENTS WHO HAVE COMPLETED MATH 10, AMATH 10, OR EMATH 10 IN THE 2009/10 YEAR:

**The mathematics curriculum for Grades 11 to 12 offers students a choice of routes through the different mathematics courses. Descriptors for the three main pathways are described in the following.**

#### Essentials of Mathematics Pathway

A student taking the Essentials of Mathematics pathway will meet graduation requirements, but may not be able to enter some trades programs, and other post-secondary programs.

#### The Applications of Mathematics Pathway

Students following the Applications of Mathematics pathway will be well prepared for many post-secondary programs that do not require calculus as part of the program of studies. The breadth of the Applications of Mathematics curriculum is intended to prepare students for entrance into many certificate, diploma, continuing education, trades, technical, and some degree programs. Students should check requirements of post secondary programs they are planning to attend before they enter this pathway.

#### Principles of Mathematics Pathways

Students following the Principles of Mathematics pathways will be able to meet the requirements to enter institutions such as Universities, and Technical Institutes, and will qualify to pursue many career paths in science and technology.

Mathematics 8 is designed to give students a broad perspective in mathematics to allow for success in the higher levels. Topics include: squares, square roots, % rate, ratio, fractions, integers, 2-variable equations, solving equations with one variable, nets, triangles, surface area, volume, 3D views, tessellations, data analysis and probability.

### **Mathematics 9 (MMA—09)**

*Pre-req: MMA – 08*

This course is designed to give students a broad perspective in mathematics before choosing one of the three grade 10 pathways. Topics include: powers, rational numbers, square roots, first-degree, single-variable equations, inequalities, graphing linear equations, operations with polynomials, circle geometry, 2D and 3D objects symmetry, data analysis and probability.

### **Apprenticeship and Workplace Mathematics 10 (MAWM-10)**

*Pre-req: MMA—09*

Topics include: algebra, geometry, measurement, number, statistics and probability. The course has a provincial final exam worth 20% of the final mark.

### **Foundations of Mathematics - Pre-calculus 10 (MFMP-10)**

*Pre-req: MMA—09*

Topics include: financial mathematics, geometry, measurement, number, logical reasoning, relations and functions, statistics and probability, trigonometry, and permutations, combinations and binominal theorem. The course has a provincial final exam worth 20% of the final mark.

### **Principles of Mathematics 11 (MMA--11)**

*Pre-req: MMA--10*

Topics include: in-depth study of quadratic functions, introduction to polynomial functions, reciprocal functions, rational functions, absolute value functions and composition of functions, solutions of equations and inequalities, linear systems, geometry of circles, and coordinate geometry.

### **Applications of Mathematics 11 (MAMA-11)**

*(Students planning on Post Secondary School in areas other than University Sciences might consider taking this course. \*\*Check with your counsellor before selecting this course. This*

*course is not recognized as an entrance requirement by some Universities.)*

This course is a continuation of the Applications of Math 10 course. The course leads to Applied Mathematics 12, which is an provincially examinable course. Applications of Mathematics 11 meets the minimum mathematics requirement for Dogwood graduation.

### **Essentials of Mathematics 11 (MEMA-11)**

*Pre-req: MEMA-10 or Teacher*

*Recommendation*

*(Check with your counsellor before selecting this course)*

This is a math course for students that **are not** planning to attend a University or College. The emphasis of this course is in areas of everyday usage of mathematics.

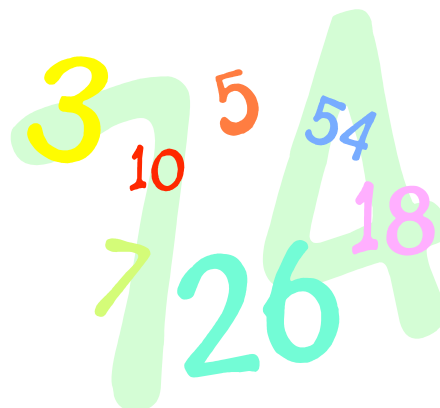
Topics include: slope, linear relations, formulas, salary and commission, simple and compound interest, measurement technology, problems connected with owning and maintaining vehicle, income tax, probability, and preparing a business plan. Essential of Mathematics 11 meets the requirement for Dogwood graduation.

### **Principles of Mathematics 12 (MMA--12)**

*Pre-req: MMA--11*

*(Math 12 is a requirement for many, but not all university programs, Check the calendar of your chosen university for program entrance requirements.)*

Math 12 is an intensive higher level course which includes topics such as: logarithmic, exponential and trigonometric functions, and equations, translation and transformations of functions and equations, geometric series, combinations and permutations, probability, and statistics. This course has an optional provincial final exam worth 40% of the final mark.



**SCIENCE**

Science 8-10 is organized under three main headings: Life, Physical, and Earth and Space Science. In the grade 11 and 12 years, students specialize their study by enrolling in courses in a specific scientific discipline. Students will have the opportunity to apply the basic concepts, principles, laws, and theories of science through active scientific inquiry.

Students can take one or more of Biology 11/12, Chemistry 11/12, Physics 11/12, in sequence or they can meet the curricular outcomes with Science and Technology 11. This course will satisfy graduation requirements but they may not necessarily meet post-secondary requirements.

### **Science 8 (MSC--08)**

This required course covers a wide range of material in the field of science. Students will be introduced to general topics in biology, optics, fluids and dynamics, and water systems on Earth. Students will develop practical lab and equipment skills, along with the concepts of each unit. Specific major topics include: cells & body systems, properties of light, human vision, states of matter, fluids and density, the kinetic molecular theory, forces, pressure, fluid systems, the water cycle, and oceans.

### **Science 9 (MSC--09)**

*Pre-req: MSC--08*

This course continues and expands on material introduced in Science 8. Main topics are: biology, chemistry, electricity, and astronomy. Students will also focus on developing practical lab and equipment skills. Specific topics include: cellular reproduction, methods of development, atoms and the periodic table, electricity, stars, space exploration, and the solar system.

### **Science 10 (MSC--10)**

*Pre-req: MSC--09*

This course is designed to give the student a sampling of three major fields of science. These include: life science, physical science and earth and space science.. Students will build upon their knowledge in these fields to develop critical thinking skills. Students will enhance their knowledge and understanding of science in order to prepare for further courses in science and related fields. The course has a provincial final exam worth 20% of the final mark.

### **Science & Technology 11 (MSCT-11)**

*Pre-req: MSC--10 and Teacher*

#### *Recommendation*

This course takes a different approach to science as it looks at science today through technology. It allows students to seek differences and similarities between science as a scientific method, and technology as an applied science. Students will learn to distinguish between fact and opinion and will be asked to form their own opinions dealing with today's science and technological issues. Topics include recreation, communication, personal computers, health, and medicine. Students are asked to use current materials from magazines, newspapers, videos, and other sources in order to interpret topics. This is not a course that relies on the disciplines of biology, chemistry and physics. It is a science course for today and tomorrow. (Science & Technology 11 meets the minimum science requirement for graduation.)

### **Biology 11 (MBI-11)**

*Pre-req: MSC--10*

This course covers in depth the 5 kingdoms of living things: bacteria, protozoans, fungi, plants, and animals. Students will observe microscopic and macroscopic specimens, both preserved and living, identify important structures and draw formal diagrams. Scientific methods and principles, classification of organisms, evolution and ecology are emphasized throughout.

### **Chemistry 11 (MCH--11)**

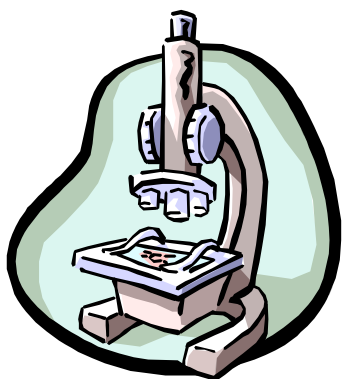
*Pre-req: MSC--10*

This is the introductory course in the study of chemistry. Major topics include: laboratory work and safety, matter and its changes, classification and nomenclature of atoms, molecules and ions, mole concepts, chemical reactions, atomic theory of the periodic table, bonding, solutions, and organic chemistry.

### **Physics 11 (MPH--11)**

*Pre-req: MSC--10 (It is recommended that students take Principles of Math 11 prior to or at the same time as Physics 11.)*

This is the introductory course in the study of physics. Main topics include: measuring time and distance, mathematical relationships between physical quantities (time, distance, velocity, acceleration), kinematics, dynamics (forces causing motion), momentum, work, energy, optics, nature of light, geometric optics, energy and energy transfer, special relativity, and nuclear physics (fission and fusion).



### **Biology 12 (MBI--12)**

*Pre-req: MBI--11*

This course is designed for students with considerable interest and ability in this subject area. The course focuses on human biology, allowing students to develop an interest in and understanding of science by looking at themselves and seeing how the diverse body systems are integrated to maintain homeostasis. The course is divided into three main areas; cell chemistry, cell processes and applications, and human biology. This course has an optional provincial final exam worth 40% of the final mark.

**Chemistry 12 and Physics 12 are usually offered in alternating years. Students wishing to complete the Grade 12 level course, should select the corresponding Grade 11 and 12 courses during the same year.**

### **Chemistry 12 (MCH--12)**

*Pre-req: MCH--11*

This course covers a small number of chemistry topics in considerable depth with emphasis placed on theory and lab practice. This is a challenging course designed for students who wish to pursue their interest in chemistry. Topics are extended from Chemistry 11 and include: reactions, kinetics, equilibrium, acids and bases, solubility of ionic substances, and oxidation-reduction reactions. This course has an optional provincial final exam worth 40% of the final mark.

### **Physics 12 (MPH--12)**

*Pre-req: MPH--11*

This is an in-depth continuation of the topics from Physics 11 with an emphasis on problem solving in two dimensions using vectors. Linear and projectile motion, forces, mechanical energy and momentum, equilibrium, circular motion and gravitation, electrostatics, electromagnetism are the topics of the course. Enrollment in Mathematics 12 is strongly recommended. This course has an optional provincial final exam worth 40% of the final mark

## HEALTH AND CAREER EDUCATION

Health and Career Education is compulsory at the grade 8/9 level. Planning 10 and Graduation Transitions are graduation requirements.

The aim of Health and Career Education is to enable students to become thoughtful, caring individuals who plan and reflect, make informed choices, and take responsibility for their own personal and career development. The provincially prescribed learning outcomes are grouped under these broad organizers:

- Education and Career
- Health Education

### **Planning 10 (MPLAN-10)**

#### **Planning 10 is a 4 credit required course;**

focused on education planning, career development, healthy decision making, financial literacy. Students learn about and consider eight possible Focus Areas and begin development of their Graduation transition. Students will maintain a portfolio of support material (eg. resume, reference letters, certificates) to use when applying for post-secondary education and employment.

#### **Graduation transitions; a requirement for the 2004 Graduation Program.**

Graduation Transitions are a mandatory requirement of B.C. graduation. Students are required to work independently on completion of the following::

- 120 minutes/week
- A graduation transition plan that will help students set goals for post-secondary education or career pursuits
- 30 Hours of work experience or community service

Students planning to complete grade 12 in January of their graduation year must have the above work completed by the end of December; June graduates must complete this work by the end of May.

#### **Daily Physical Activity**

All students from K to 12 will participate in 30 minutes of Physical Activity per day.

**Grade 8 and Grade 9:** 30 minutes of Daily Physical Activity as part of students' education program.

**Grades 10-12:** Students must document and report a minimum of 150 minutes per week of physical activity, at a moderate to vigorous intensity, as part of their Graduation Transitions Program.

## PHYSICAL EDUCATION

The aim of physical education is to enable all students to enhance their quality of life through active living. The physical education program provides students with opportunities for regular physical activity and to develop an appreciation for and enjoyment of movement in the following categories: alternative-environment activities, dance, games, and individual or dual activities. Outdoor activities in a natural setting are encouraged. Students are also encouraged to develop respect for self and others as they learn and practice the skills of communicating and cooperating.



### **Physical Education 8 (MPE--08)**

The student's skills and knowledge are maintained and further developed in a variety of indoor and outdoor activities, both team and individual. An introduction to the rules and skills of each sport is emphasized. Physical fitness is promoted through acquiring the necessary skills to participate in these activities. This course is required for all grade 8 students.

### **Physical Education 9 (MPE--09)**

Student skills and knowledge are maintained and further developed in a variety of indoor and outdoor activities, both team and individual. Physical fitness is promoted through acquiring the necessary skills to participate in these activities. This course is required for all grade 9 students.

### **Physical Education 10 (MPE--10)**

The student's skills and knowledge are developed in a variety of indoor and outdoor activities, both team and individual. Physical fitness is promoted through acquiring the necessary skills to participate in these activities. This course is required for all grade 10 students and is a required credit on the 2004 Graduation Program.

### **Physical Education 11 (MPE--11)**

This course will help the student gain knowledge of the community's recreational programs, facilities, organizations and agencies. Students will gain an understanding of leisure, its uses and implications in our society. Students will develop their social, physical and organizational skills. Leadership will be developed through practical experience. As this is a performance based course a large portion of the mark is determined by attendance and participation. *(This course may satisfy the 80 hours of physical activity required for Portfolios).*

### **Physical Education 12 (MPE--12)**

*Pre-req: MPE--11*

This course will help the student gain knowledge of the community's recreational programs, facilities, organizations and agencies. Students will gain an understanding of leisure, its uses and implications in our society. Students will develop their social, physical and organizational skills. Leadership will be developed through practical experience. As this is a performance based course a large portion of the mark is determined by attendance and participation.



### **Outdoor Survival Education 10/11 (YOSE-10) (YOSE-11)**

*Pre-Req: None*

This course is a diversified and comprehensive basic wilderness survival course that explores the following:

- Tools of survival and survival training
- Map and compass use
- Basic first aid and winter medical conditions
- Survival in deep snow and in cold lacking snow
- Advantages/disadvantages associated with cold and snow
- Preparedness, and cold weather clothing
- Weather, shelters, and winter fires

- Emergency ski-shoes, snowshoe safety, and ice travel safety
- Kindling and fire lighting, and matchless fire by friction
- Knife sharpening, making cordage, and building shelters
- Top seven bush knots and use of a windlass
- 21 native wild edible plants
- Dealing with bears

The presentation format of this course is a combination of classroom theory and practical outdoor exercise. This course is available to students at three grade levels but is a one-level program. Students who have completed the course should not re-enroll.

## **FIRST NATIONS STUDIES**

### **BC First Nations Studies 12 (FNS 12)**

In today's world, all students require accurate, reliable information about First Nations values, beliefs and traditions. This course is intended for all learners in an effort to develop an appreciation and respect for the similarities among and differences between the diverse cultures of the world. By focussing on the perspectives and experiences of First Nations people and by exploring their rich and diverse cultural heritage students will gain an understanding of who First Nations people are and why they are an important part of our diverse heritage.

This course has a provincial final exam worth 20% of the final mark.

(This course satisfies the grade 11 social studies requirement for Graduation)

## **LANGUAGES**

### **Second language Requirements:**

Students are required to take a language at the grade 8 level.

A. Successful completion of a second language using provincially approved curricula to the grade eleven level is required for entrance to some major universities in British Columbia.

1. *A second language to the grade 11 level* is required for *direct entry* from Grade 12 to **UBC** and **UVIC**.
2. *A beginner's level second language* is acceptable for direct entry to **SFU**.
3. There is no second language requirement for direct entry to **UNBC**.

- B. Colleges (university transfer) within BC:
1. There is no second language requirement for entry to most college programs.
- \*\* Students who complete an acceptable University Transfer program through the College system are not required to have second language standing when transferring to UBC, UVIC or SFU.\*\*

C. Student interested in applying to post-secondary institutions outside of BC are advised to check entrance requirements specific to each institution.

**French 8 (MFR--08)**

In this course the student will acquire comprehension of the basics of the French language. Both spoken and written French will be developed to allow the student to communicate at a moderate level. Both the written and spoken aspects of this course will focus on everyday conversation, present tense, school, sports, food, travel, hobbies, and family. A French-English dictionary will help the learning process.

**French 9 (MFR--09)**

*Pre-req: MFR--08*

In this course students will develop a comprehension of both spoken and written French, and an ability to communicate at a moderate level. A major emphasis will be placed on both the oral and written component of the course. Activities will cover four components: speaking, writing, listening, and reading. Topics will include: sports, clothing, travel, music, friends, films, celebrations, journal writing and present, past and future tenses. There will also be a focus on the French-Canadian culture in order for students to acquire an appreciation for that culture. A French-English dictionary is necessary for this course.

**French 10 (MFR--10)**

*Pre-req: MFR--09*

This course continues the development of written and oral comprehension from the previous year. Students should have a good understanding of grammatical concepts through reading and writing activities. Topics will include: fashion, advertising, travel, leisure, activities, present, past and future tenses, and journal writings. There will also be a focus on French-Canadian culture.

**French 11 (MFR--11)**

*Pre-req: MFR--10*

This course continues the development of language skills from French 10 with an emphasis on written composition. This will be developed through journal writings, opinion writing, and children's novel writing. Oral development will continue through oral presentations, debates and discussions. Topics will include: nutrition and physical activity, literature, theatre, adventures, present, past and future tenses. A novel study will also be a part of this course. The French culture will be developed through the study of European French culture.

**French 12 (MFR--12)**

*Pre-req: MFR--11*

French 12 is a challenging course. Students enrolled in French 12 should have a strong grammatical background from French 11 through debates and discussions. A large emphasis is placed on polishing students' skills in listening, speaking and reading in the language. Students will analyze written work and express themselves freely in the French language.

There is an optional provincial final exam worth 40% of the final grade.

## FINE ARTS

The knowledge, skills, and attitudes developed in the Fine Arts are intended to ensure that all students receive a well-rounded and complete education. The fine arts (dance, drama, visual arts, and music) provide students with unique ways of understanding their world and communicating that understanding. This understanding is critical to all aspects of a student's education, future work, and leisure enjoyment.

### **Band 8 - 12 (MMU--08, MMU--09, MMCB-10, MMCB11, MMCB12)**

The music option for grades 8 to 12 focuses on developing skills on an instrument in a concert band setting. Concert band instruments include those belonging to the brass, woodwind and percussion groups. The musical styles of present day, classical and traditional concert band works are studied and performed. Students are expected to participate in learning all facets of music, including performance, theory and history. The emphasis of this program is on performance and students must be prepared to put in extra time to meet the needs of school and community functions.

### **Jazz Band 8-12 (MMU--09JB, MMJB-10, MMJB11, MMJB12)**

The Jazz Band is a co-curricular music option offered to students in all grades. The emphasis in Jazz Band is on further development of instrumental skills while studying the pop, blues and jazz idioms. The availability of this course is dependent on student enrolment. The emphasis of this program is on performance and students must be prepared to put in extra time to meet the needs of school and community functions.



### **Choral 8- 12 (MMU--09CH, MMCC-10, MCMCC11, MCMCC12)**

This music option for grades 8 to 12 focuses on developing vocal skills in a concert choir setting.

This option is open to any students, with any range of singing experience or ability. The musical styles of present day, classical and traditional choral works are studied and performed through pieces that are sung in unison, harmony, or accapella. Students are expected to participate in learning all facets of music, including performance, theory and history. The emphasis of this program is on performance and students must be prepared to put in extra time to meet the needs of school and community functions.



### **FNASK 8 - Art (MVA--08)**

In this course students will have the opportunity to create a variety of projects including drawings, paintings, clay vessels and abstract sculptures. Students will learn how to properly use various materials while learning fundamental art concepts like shading and composition. Students will incorporate a variety of themes and ideas into their work.

### **Art 9/10 (MVA-09) (MVAG-10)**

In this course students get to work with a variety of materials and concepts to create both 2D and 3D projects. Student's ideas around what makes art meaningful are explored through a variety of assignments that look at the history and intentions of other influential artists both current and historical. Students examine the political, social and emotional impact art can have on society and work towards creating pieces that speak to their own life's experiences. Material used during this course include: all kinds of drawing materials, acrylic/watercolour paint, clay, paper mache and found objects. Projects will allow students to practice a variety of art techniques and skills strengthening student's artistic abilities.

**Art 11/12 (MAF-11, MAF-12)**

In this course students are expected to become independent creators. Students will be assigned a variety of projects where they will be given the freedom to choose their own materials, presentation of the work and most importantly to express their own ideas. Students will have the opportunity to work with a variety of materials including metal clay, plaster, acrylic paint, drawing materials, clay, sculpey, paper mache, screen printing and watercolors. Each assignment will present the students with a new visual problem to solve enhancing their knowledge of art techniques and giving them some insight into both current and historical artist's practices.

**Sculpture 9-12 (MVAC-9, MVAC-10, MSACS11, MSCACS-12)**

If you like the idea of working with your hands to create something unique then this course might be for you! This course provides students with the opportunity to work with a variety of materials to create different sculptures. Students will learn proper sculpting techniques and practices while having the opportunity to work with a variety of ideas/themes in their artwork. Students will work both independently and in groups to create both small and large sculptures and installations.



**Acting and Film 9-12 (MDR-09, MDRG-10, MTPa-11, MTPA-12)**

This course is good for students with and without any acting experience. Each year students start with fundamental acting techniques which are learnt and practiced through participation in a series of small projects and theatre games. Students work on character development and participate in a variety of

activities including the creation of their own characters through both improvisation and script work. The class will learn proper filming and editing techniques by filming and creating their own videos based on different themes each year. This course is excellent for students looking to improve their public speaking skills and increase their comfort with performing. Students taking Acting and Film class must be willing to be active participants in the class.

**Acting 11 (MTPA-11)**

This course is intended to develop more formal acting skills and to provide extensive experience in script analysis and scene work. Creative drama activities will take up the first part of the term. Students will continue to build skills in self-confidence, listening, concentration, imagination, voice and speech, and natural freedom of movement in theatre work. Student actors will also be involved in the staging and production of short, one-act plays. This will be used to help build students' abilities in performing before an audience, and to develop an appreciation of dramatic literature.

**Acting 12 (MTPA-12)**

Course is intended to be an extension of learning outcomes for Acting 11.

## **BUSINESS EDUCATION**

The curriculum for Business Education addresses perspectives on business held by both small and corporate businesses, workers, labour unions, and entrepreneurs. The viewpoints of employees, consumers, and employers are also considered. High ethical and environmental standards for the workplace and for business and consumer practices are emphasized.

### **Business Computer Applications 11 (MBCA-11)**

This course will introduce students to the creation and processing of business information. Industry-- standard software will be utilized to develop skills in creating and editing business documents efficiently and on schedule. Students develop skills in keyboarding, communication, and problem solving. This is a "must" course for any student who desires to work in an office environment.

### **Business Information Management (MBIM-12)**

*Pre-req - MBCA-11*

This is a continuation of Business Computer Applications 11 and focuses on the integration of the skills, technology and attitudes required in a modern business office. Students will learn how to use and apply the advanced functions of MS Office, such as data base and spreadsheet applications.



## **COMPUTER APPLICATIONS AND INFORMATION TECHNOLOGY**

### **Information and Technology 8 (MINT-08)**

Information Technology 8 is a course offered as part of the Grade 8 Fine Arts and Applied Skills program. It includes an introduction to Information and Technology, Computer Graphics, and Computer Applications including the areas of business, productivity, and communications.

### **Information and Technology 9 (MINT-09)**

Information and Technology 9 is a required course. This course expands on the topics introduced at the Grade 8 level. Students enrolled in MINT 9 will be involved with the following concepts at a basic level:

- ethics, privacy and societal implications
- related career and education paths
- formal problem solving techniques
- use and application of integrated productivity software
- presentation of information in electronic and hardcopy forms
- network concepts
- elements and techniques of programming
- keyboarding
- electronic communication tools
- business communication tools and formats
- elements of design
- vector graphics and animation

### **Information and Technology 10 (MINT-10)**

*Pre-req: MINT-09*

Information and Technology 10 continues the topics outlined for MINT 9, at an intermediate level. In addition:

- team problem solving and development
- evaluation of information sources and bias by source and medium
- evaluation of suitability and application of various technologies to particular problems
- the principles of design and their application.

Students completing MINT 10 will be prepared to enter any of the Computer Applications and Information and Communications Technology Programs at the Grade 11 level.

### **Business Computer Applications 11**

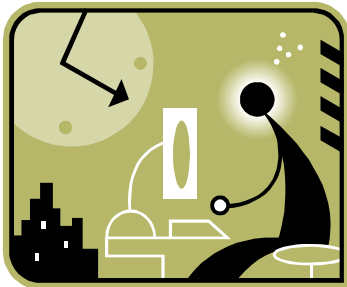
**(MBCA-11)**

This course will introduce students to the creation and processing of business information. Industry-standard software (Microsoft Office) will be utilized to develop skills in creating and editing business documents (including forms, legal documents, reports, and manuscripts) efficiently and on schedule. Students will develop skills in keyboarding, communication, and problem solving. This is a "must" course for any student who desires to work in an office environment.

**Business Information Management 12 (MBIM-12)**

*Prerequisite: BC11*

This course is a continuation of Business Computer Applications 11 and focuses on the integration of the skills, technology and attitudes required in a modern business office. Students will learn how to use and apply the advanced functions of Microsoft Office, such as database and spreadsheet applications.



**Information and Communications Technology 11 (MICTX11)**

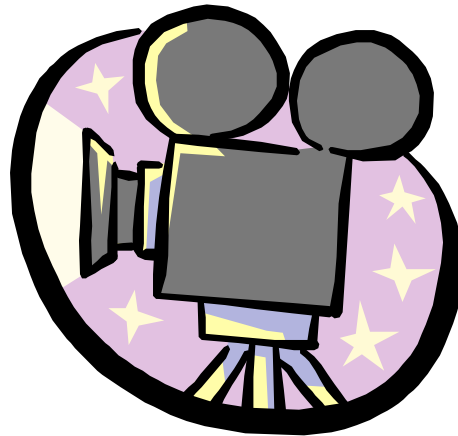
This course is designed to give students the opportunity to work and learn in the areas of digital communications, digital media development, computer information systems, and computer programming. This course is set up in such a way as to cater to the interests and needs of the class, but may include; web page development, digital video, 2D/3D graphic design, network design, common application software, computer programming, etc.

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**Information and Communications Technology 12 (MICTX12)**

ICT 12 builds upon the learning expectations of ICT 11. Students will be involved in the application of skills and knowledge to more complex problems than those addressed in ICT 11.

In previous years this course has included 3D animation, graphic and photo manipulation, digital video, computer programming, and network design.



## HOME ECONOMICS

Home Economics education helps students to interpret and understand the world of family and work, and to identify and solve challenges that occur in their daily lives. Students participate in practical experiences that prepare them for future independent and community living. Classroom activities provide students with opportunities to prepare food, use textiles, and analyse individual and family needs. Students develop time-, money-, and energy-management skills. They also gain an understanding of child development and improve their capacity to nurture and care for others.

### Home Economics 8 (MHE--08)

The grade 8 program is divided into three separate sections. Section one is Foods and Nutrition; in this section students learn about each of the 4 food groups, cooking food items from each of the food groups, and the nutritional value of the food we eat. Time is spent on basic knowledge of the kitchen, and an introduction to measurement and cooking equipment. In the second section students learn the basic rules of sewing safely, the use of the sewing machine, and basic hand sewing techniques. Students will acquire a knowledge of different textiles and the first steps of laying out a pattern. They are required to complete a sewing project to meet the learning outcomes. The third and final section is family studies as part of HCE8 program. In this section we discuss relationships and take the time to define what makes good relationships and what it takes to make one. We also discuss healthy life style choices, with regards to dating, sex and boundaries that we establish early in our dating life.

### Home Economics 9 (MHE--09)

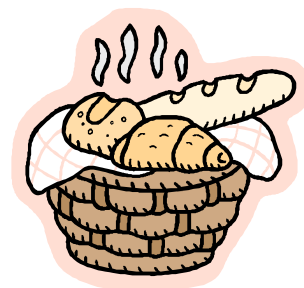
This is an introductory course to the world of Home Economics. The course consists of three parts: Foods and Nutrition, Child Development, and Textiles. In the foods section, students will study the Canada Food Guide, and prepare foods from each food group. They will develop preparation skills and knowledge that will enable them to become competent cooks and consumers. In the child development section, the students will study the basic growth and development of a child from birth to 6 years. In the Textiles section students will learn basic hand sewing techniques as well as sewing machine operation and sewing safety.

### Home Economics 10 (MFDN--10)

This is a more advanced/in depth course than Home Economics 9. The course consists of three parts: Foods and Nutrition, Child Development and Textiles. It is expected that the students will prepare certain foods and have a basic understanding of the operation of a kitchen. In the Child Development section the students study the basic growth and development of a child from birth to 6 years. They develop a basic understanding of the things they need to know to help a baby and a young child grow to reach their full potential. In the Textiles section students will learn basic hand sewing techniques. They will learn about the sewing machine operation and sewing safety.

### Food & Nutrition 11 (MFDN-11)

The course looks extensively at food nutrients and their purpose. Students will study nutrient deficiency symptoms and disease, processing and evaluation of foods, food additives and preservation and food safety. Students will be expected to participate in the B.C. Government "Food Safe" Course through this class. Students will study and prepare various "ethnic foods", learn about weight control, and study ways to deal with eating disorders. The students will develop planning and budgeting skills and apply nutrition concepts to family menu-planning. Students will explore the world of careers in the food industry.



### Food & Nutrition 12 (MFDN-12)

*Pre-req: FDS 11*

This course is an extension of the Foods and Nutrition 11 class. The course includes an in depth study of food nutrients and their purpose. Students will study nutrient deficiency symptoms and disease, processing and evaluation of foods, food additives, and preservation. Students will study and prepare various "ethnic foods". The students will develop planning and budgeting skills and apply

nutrition concepts to family menu-planning. Students will explore the world of careers in the food industry and be expected to work on an independent study project that will be shared with the class. More advanced skills include the use of special equipment, catering special gourmet foods and the use of special diets. Students will study nutrition in situations such as heart disease, anorexia, bulimia, allergies and nutrition for athletes. The grade 12 students will be expected to understand the world food crises and study the global issues related to food and food preparation.



## **TECHNOLOGY EDUCATION/ INDUSTRIAL EDUCATION**

Traditional courses in Woodwork, Metalwork, Mechanics, and Drafting address such topics as the basic skills required to plan and complete projects in metal or wood, or to understand and repair small engines and related systems. Many components of these courses relate to current knowledge and skills necessary for both personal enrichment and career development.

### **FNASK - Woodwork 8 (MTE--08)**

The Woodwork portion of the FNASK 8 curriculum is focused on the basics of introductory woodworking with a brief introduction to drafting. The course emphasizes SAFETY in conjunction with skill development in the use of hand and machine/power woodworking tools and processes.

Topics covered include:

- Orientation and general shop safety
- Hand tool safety and operation
- Technical Drawing and project planning
- Machine tool safety and operations
- Portable electric tools & equipment
- Finishing techniques
- Wood technology and theory

As the FNASK 8 Woodwork course is a required part of the grade 8 curriculum, students will not be required to pay for materials used except for large optional projects.

### **Woodwork 9 (MTE-09W)**

Woodwork 9 is a course designed to introduce and/or familiarize students with the different hand and machine tools and processes used in a woodworking shop. With an emphasis on safety, students will complete assigned projects in addition to projects chosen, designed and constructed independently.

Instructional Topics include:

- Safety in a woodworking environment
- Wood Technology and Theory
- Hand Tool Safety and Operations
- Machine Tool Safety and Operations
- Finishing Techniques

### **Woodwork 10 (MTEW-10)**

Woodwork 10 is a course designed to introduce and/or familiarize students with the different hand and machine tools and processes used in a woodworking shop. With an emphasis on safety, students will complete assigned projects in addition to projects chosen, designed and

constructed independently. Instructional Topics include:

- Safety in a woodworking environment
- Wood Technology and Theory
- Hand Tool Safety and Operations
- Machine tool Safety and Operations
- Portable Electric tools and Equipment
- Finishing Techniques

Any student who has successfully completed WW 9 prior to enrolling in WW 10 will be given appropriate advanced course work.



### **Carpentry and Joinery 11 (MCJ--11)**

This course is designed to introduce students to cabinet making and furniture construction.

Following an introduction/review of hand-tool operations, students will be asked to complete assigned woodwork projects as well as projects chosen, designed and constructed independently.

Instructional Topics include:

- Safety in a woodworking environment
- Wood Technology and Theory
- Hand Tool Safety and Operations
- Machine Tool Safety and Operations
- Portable Electric Tools and Equipment
- Finishing Techniques

Any student who has successfully completed Woodwork 9, and/or Woodwork 10 prior to enrolling in CJ 11 will be given appropriate advanced course work.

## **Carpentry and Joinery 12 (MCJ--12)**

*Pre-req: MCJ--11*

Carpentry and Joinery 12 is an advanced course in cabinet making and furniture construction. Following a review of hand tool operations, students will be asked to complete assigned woodwork projects as well as projects chosen, designed and constructed independently. Topics include:

- Safety in a woodworking environment
- Wood Technology and Theory
- Machine Tool Safety and Operations
- Machine Tool Safety and Operations
- Portable Electric Tools and Equipment
- Finishing Techniques
- Optional Instructional Units include:
- Building Construction and Related Technology
- Mass Production/Assembly line Construction

Carpentry and Joinery options include;  
Carpentry and Joinery 12: Cabinet Construction  
Carpentry and Joinery 12: CNC Wood Processes  
Carpentry and Joinery 12: Furniture Construction  
Carpentry and Joinery 12: Residential Construction  
Carpentry and Joinery 12: Woodcraft Products

## **Mechanics 9 (MTE--09MC)**

The skills and knowledge presented in this course will enable the student to troubleshoot, disassemble, repair and reassemble small engines. The skills and knowledge will be applied towards maintenance and repair procedures of motorcycles, snowmobiles, chain saws, outboards and utility engines. Course content includes theory, project construction and practical lab work.

## **Mechanics 10 (MTEM-10)**

The skills and knowledge presented in this course will enable the student to troubleshoot, disassemble, repair and reassemble small engines. The skills and knowledge will be applied towards maintenance and repair procedures of motorcycles, snowmobiles, chain saws, outboards and utility engines. Course content includes theory, project construction and practical lab work. Any student who has successfully completed Mech 9 prior to enrolling in Mech 10 will be given appropriate advanced course work

## **Automotive Technology 11 (MAT--11)**

On completion of this course the student will be able to troubleshoot, display theoretical knowledge of, maintain and repair automotive engines and chassis. Students will be expected to display their knowledge in the form of practical work, written assignments, quizzes and tests. Students are encouraged to have access to a vehicle on which they can perform maintenance and mechanical procedures.

## **Automotive Technology 12 (MAT--12)**

*Pre-req: (MAT--11)*

On completion of this course the student will be able to troubleshoot, display theoretical knowledge of, maintain and repair automotive engines and chassis. Students will be expected to display their knowledge in the form of practical work, written assignments, quizzes and tests. Students are encouraged to have access to a vehicle on which they can perform maintenance and mechanical procedures.



## **Metalwork 9 (MTE--09)**

Students taking this course will fabricate projects from metal. This course will focus on the use of hand tools in bench metal operations. In addition to the use of hand tools, students will learn the safe operation of an arc welder, sheet metal tools and power tools. Course content will be taught through direct instruction and individual projects. Students choosing this course should have the ability to work independently.

**Metalwork 10 (MTEC-10)**

Students taking this course will fabricate projects from metal. Any student who has successfully completed MTL 9 prior to enrolling in MTL 10 will be given appropriate advanced course work. The focus will be placed on the refinement of the skills learned in Grade 9. In addition to those skills, students will work with oxy-acetylene welder, and cutting. Course content will be taught through direct instruction and projects.

**Metal Fabricating and Machining 11 (MMFMAF11)**

Metalwork 11 offers the student an introduction to the metal working trades. The student will review basic hand tools and their operation. They will also learn the safe operation of all power equipment used in the metal shop. Students will be introduced to forging and the foundry (metal pouring). Arc welding, oxy-acetylene welding/cutting/brazing, lathe machining, milling and sheet metal applications will all be reviewed.

**Metal Fabricating and Machining 12 (MMFMAF12)**

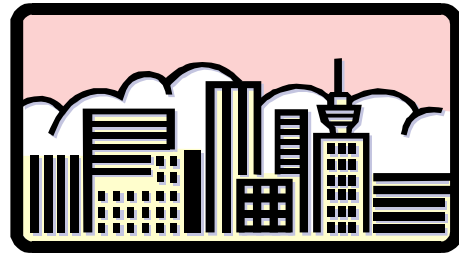
*Pre-req: MMFMAF 11*

Metals 12A will extend and continue to develop skills and knowledge initiated in Metals 11A. Students are expected to work independently on projects from both the instructor and of their own design. A greater emphasis will be placed on project design and manufacture than in previous years. Students will be expected to supply or pay for materials they use.

**Drafting 9/10 (MDRF 9, MTED-10)**

The topics covered in this course are Geometric Construction, Orthographic Projection and Multi view Drawings, Pictorial Drawings, Working Drawings and Conventions, Introductory Architectural Drafting/House Plan. Precision, quality, accuracy and neatness are stressed. Students will require drafting pencils, ruler, compass, set squares and other similar supplies.

Students will require drafting pencils, ruler, compass and set squares and other similar supplies. Any student who has successfully completed Drafting 9 prior to enrolling in Drafting 10 will be given appropriate advanced course work in the field of Drafting and Industrial Drawing.

**Drafting and Design 11/12 (MDDF-11, MDD-12)**

Drafting 11 is an introductory course in Technical Drawing designed to acquaint students with basic drafting techniques. Topics covered include:

- Technical Sketching
- Geometric Constructions
- Orthographic Projection and Multi view Drawings
- Pictorial drawings
- Working Drawings and Conventions
- Introductory Architectural Drafting/House Plan

Precision, quality, accuracy and neatness are stressed. Students will require drafting pencils, ruler, compass and set squares and other similar supplies. Any student who has successfully completed Drafting 9 or Drafting 10 prior to enrolling in Drafting 11 will be given appropriate advanced course work in the field of Drafting and Industrial Drawing.

## CAREER PROGRAMS

### Teacher Assistant 11 (YTA--11)

*Pre-req: Grade 10 Standing*

For students who are considering entering an occupation in human services, Teacher Assistant 11 may be a course to consider. Students are paired with a cooperating teacher at either FNSS or R.L. Angus. Students are provided experiences which allow them to assist younger students, eventually leading to teaching a lesson for the class. In most cases, T.A. students are placed with students two or more grade levels below their age. T.A. students can also expect to assist the teacher with lesson preparation and classroom administrative tasks.

### Teacher Assistant 12 (YTA--12)

*Pre-req: YTA--11*

Students who have completed T.A. 11 may wish to continue developing skills in working with people. Teacher Assistant 12 will provide a new placement to assist younger students with their studies.

### Work Experience 12A & 12B (MWEX 12A/12B)

*Pre-req: 15 years old and grade 10 standing*

Work Experience 12A & 12B (MWEX 12A/12B) follow the guide for Ministry-Authorized Work Experience courses. Each is 100-120 hours long and worth 4 credits.

Students are generally not to be paid as employees for their work at the work site as they are earning high school course credits. Such students are considered “workers of the Crown” for purposes of WCB coverage.

Students who use paid employment, supported and monitored by the school must show that they are working at a site where WCB coverage is provided. In addition these students must complete a training plan, to establish that the employment coincides with the student’s Focus Area.

Marks for the course will be determined by a combination of assignments and employer assessment. **Credit will not be issued unless the hours are completed.**

There is flexibility in the timing of work experience program and as the timetable at FNSS is not always convenient for employers,

students may also use after school time and weekends to complete their hours.

Completing Work Experience 12 will satisfy the 30 hour work experience requirement for Graduation Transitions.

See Mrs. Stephenson for more information.



## BOARD AUTHORIZED APPROVED COURSES

### **Psychology 11 (YPSY11)**

This is a locally developed course open to both Grade 11 and 12 students. Students are introduced to the basic theories of modern psychology that attempt to explain both normal and abnormal human behaviour.

Major topics include how research is conducted; the development of personality (why we are all unique!); the impact of natural stages of development on behaviour; the role of stress and conflict in our lives; how we learn, think and remember; and types of mental illness, addictions, and their treatments.

### **Outdoor Survival Education 10 (YOSE 10)**

This course is a diversified and comprehensive basic wilderness survival course that explores the following:

- Tools of survival and survival training
- Map and compass use
- Basic first aid and winter medical conditions
- Survival in deep snow and in cold lacking snow
- Advantages/disadvantages associated with cold and snow
- Preparedness, and cold weather clothing
- Weather, shelters, and winter fires
- Emergency ski-shoes, snowshoe safety, and ice travel safety
- Kindling and fire lighting, and matchless fire by friction
- Knife sharpening, making cordage, and building shelters
- Top seven bush knots and use of a windlass
- 21 native wild edible plants
- Dealing with bears

The presentation format of this course is a combination of classroom theory and practical outdoor exercise. This course is available to students at three grade levels but is a one-level program. Students who have completed the course should not re-enroll.

### **Teacher Assistant 11 /12 (YTA-11/12)**

#### **Pre-req: Grade 10 Standing**

For students who are considering entering an occupation in human services, Teacher Assistant 11 may be a course to consider. Students are paired with a cooperating teacher at either FNSS

or R.L. Angus. Students are provided experiences that allow them to assist younger students, eventually leading to teaching a lesson for the class. In most cases, T.A. students are placed with students two or more grade levels below their age. T.A. students can also expect to assist the teacher with lesson preparation and classroom administrative tasks.

### **Yearbook 11 (YYB--11)**

Yearbook 11 is intended for students with an interest in the design and publication of printed materials, and is open to students in grades 10, 11, and 12. The focus of the course is on a student-planned and student-designed school yearbook. Students will develop an appreciation for the vast and interdisciplinary nature of publishing, which includes: research, interviewing, surveys, copywriting, editing, typography, photography, photographic manipulation, design, layout, computer skills, advertising, and distribution.

Communication skills and creative problem-solving skills are also emphasized within the course. Students will each take on the responsibility of creating numerous pages for the publication and will have opportunities to work independently, in partnerships, and in small teams. This course will be run off timetable by a teacher sponsor and school/community volunteers.

## **TRADES PREPARATION AND INDUSTRIAL EMPLOYMENT PREPARATION**

As components of the Transition to Trades program the Trades Preparation and Industrial Employment Preparation courses will provide trades and technology exposure to students who may be interested in a career in this area, but have minimal industry experience. Through the dual-credit possibilities students are able to begin their specific career training in Grade 11.

### **Trades Preparation 11**

*Prerequisite(s): Expressed interest in the trades.* This course is intended to expose students to the knowledge, skills, and attitudes necessary for a successful career in the trades and technology fields. Students will have the opportunity to decide if they are suited to a career in these fields, and if so, explore which specific trade and technology area they would like to pursue.

Enrolment will be restricted to students enrolled in the Northern Opportunities Transition to Trades Program, except with permission of administration, counsellor or Instructor.

### **Trades Training 12**

*Prerequisite(s): Expressed interest in the trades.*

This course is for students who have completed Trades Prep 11 and who wish to continue working on technical and practical training in the fields of Carpentry, Welding, Millwright and Machining as well as Gas Process Operator.

### **Industrial Employment Preparation 12**

*Prerequisite/Co-requisite: Trades Prep 11*

Industrial Employment Preparation is designed for students wishing to move directly from Secondary School into the oil/gas, forestry or technological industries.

The course will provide an overview of gas/oil and forest industries. Work experience, field trips and guest speakers will be involved. In addition the course will provide the student with the following certificates; WHMIS, Transport of

Dangerous Goods, H2S Alive, Level 1 First Aid, Confined Space Entry and additional certificate courses as recommended by industry/instructor for work in this area.

Enrolment will be restricted to students enrolled in the Northern Opportunities Transition to Trades Program, except with permission of Administration, Counsellor or Instructor. (Additional fees may be needed to cover cost of testing and certification.)

### **Hairdressing**

**Year 1 11A, 11B, 11C,**

**Year 2 12A, 12B, 12C, 12D**

The Cosmetology (Hairdressing) Program provides basic theory and related information along with hands-on practice to enable students to become competent in basic hairdressing techniques.

These courses introduce students to the basic principles of hairdressing and the organization and management of a hair salon. Basic principles form the foundation for practical work with clients. Students are introduced to the operation of a hair salon including reception duties, product selection and knowledge client relations and record keeping.