

COURSE DESCRIPTIONS – GRADE 10

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GRADE 10 COMPULSORY COURSES

ENGLISH LANGUAGE ARTS 20F (1 CREDIT)

The Grade 10 program is designed to assist students in widening their appreciation of the English language. The program is calculated to move students from the exploratory level of Grade 9 towards a greater awareness of the variables of language and communication. The program will engage students in a variety of language activities to increase student awareness of the diversity and richness of language. Since the course must accommodate a wide spectrum of students who may have varying levels of language skills, the content will be broad in character. Students may encounter a wide variety of materials; short prose, novels, drama, poetry, and visual materials such as movies and documentaries. In addition, non-fiction texts such as biographies and memoirs may be featured. Written and oral communication skills are both stressed.

GEOGRAPHY 20F (1 CREDIT)

Geography education is a key environment for developing geographic literacy and in building a strong future for Canada's young people.

Objectives:

- To encourage students to develop a critical sense of wonder and curiosity about geography.
- To enable students to use geography to acquire knowledge and solve problems, therefore improving the quality of life for themselves and others.
- To prepare students to critically address geography - related societal, economic, ethical, and environmental issues.
- To develop in students of varying aptitudes and interests a knowledge of the wide variety of careers related to geography, technology, and the environment.

MATHEMATICS

Students are required to take one of the two mathematics courses. Students may opt to take both of the following courses in which case one would be considered an elective.

APPLIED MATH AND PRE-CALCULUS MATH 20S (1 CREDIT)

Grade 10 Introduction to Applied and Pre-calculus Mathematics (20S) is intended for students considering post-secondary studies that require a math pre-requisite. The topics studied form the foundation for topics to be studied in both Grade 11 Applied Mathematics and Grade 11 Pre-calculus Mathematics. Students will engage in activities that include the use of technology, problem solving, mental mathematics, and theoretical mathematics to promote the development of mathematical skills.

The following units will provide a framework for the course.

Measurement

Trigonometry
Factors and Products
Roots and Powers
Coordinate Geometry
Relations and Functions
Linear Functions
Systems of Equations

ESSENTIALS OF MATH 20S (1 CREDIT)

This course has been developed to allow students to transition to the work world with basic knowledge in every day mathematical situations.

Curriculum topics that will be covered are as follows:

1. Problem analysis
2. Personal banking
3. Wages and salaries
4. Spreadsheets
5. Trigonometry
6. Spatial geometry
7. Consumer decisions
8. Probability and sampling
9. Analysis of games and numbers

Textbook: Katherine Borgen, Vancouver School Board and University of British Columbia.
MathWorks 10, Pacific Educational Press. 2010

PHYSICAL EDUCATION/HEALTH 20F (1 CREDIT)

Grade 10 Physical Education covers two focus areas: Physical Education and Health Education. The emphasis of this course is to provide students with experiences that will guide them to make healthy lifestyle choices. In providing these opportunities, students will cover course material from the following areas:

1. Movement – students will develop skills that are commonly used in team and individual sports, as well as gain an understanding of why we do skills certain ways.
2. Fitness Management – students will gain knowledge with regard to the importance of being physically fit. They will also learn about a variety of training practices, for example, cardiovascular and strength training. Students will begin to plan self-fitness programs and execute them.
3. Safety – students will focus on safety during sport, importance of proper body use, body temperature, weather, proper clothing, CPR and promotion of fair play.
4. Personal and Social Management – students will work on a variety of activities such as goal setting, stress management, healthy relationships, behavior management, and career studies.

5. Healthy Lifestyle Practices – students will cover topics such as drug and alcohol awareness and human sexuality.

SCIENCE 20F (1 CREDIT)

The course material is divided evenly over the three science disciplines. Within the chemistry area students learn about elements, periodic table, how to write chemical formulas, and how to properly name compounds. The physics unit will focus on basic physics principles including velocity, acceleration, and Newton's laws. Finally, the ecology unit will look at how living things interact with each other and their surrounding environment. Students will participate in a wide variety of labs, learn lab safety and graphing skills.

GRADE 10 ELECTIVES

DESKTOP PUBLISHING 35S (1/2 CREDIT)

This half-credit course is paired and offered with Digital Pictures 25S. Desktop Publishing 35S is designed to provide students with the skills and knowledge to plan and create a variety of published documents using Microsoft Word and Microsoft Publisher. Possible topics to be covered include introduction to desktop publishing, planning a publication, manipulating text, working with graphics, applying layout techniques, preparing and publication for prepress. Examples of in-class publications to be produced are advertisements, brochures, newsletters, magazines, flyers, posters, and programs.

DIGITAL PICTURES 25S (1/2 CREDIT)

This half-credit course is paired and offered with Desktop Publishing 35S. Digital Pictures 25S is designed to provide students with the skills and knowledge to communicate messages through images. Students will focus on editing photos using Adobe Phostoshop CS and experience the capabilities of Photo Story 3 for Windows. Possible topics to be covered include introduction to images, buying media, capturing still images, working with lighting, working with frames, understanding photo management, manipulating images using software tools, displaying graphic images, and critiquing images.

DRAMA 20G (1 CREDIT)

This course is designed to be fun, creative, and engaging. Students actively learn through a wide variety of drama games, activities, and tasks. There is a focus on technique, history of drama, and valuing the experience through participation. This course is designed to build confidence in students' not only on the stage, but in all areas of school and life.

FOODS AND NUTRITION 20S (1 CREDIT)

This course will continue to build on the skills learned in F&N 10S. We will discuss the history of food, tools and equipment used in the kitchen, the six basic nutrients, how to maintain a healthy diet, and consumer decision making. The food preparation lab will continue to be a major focus in this course. Students will continue to learn how to use a recipe effectively, learn different preparation techniques, and use and practice proper safety and sanitation procedures.

FRENCH 20G (1 CREDIT)

In this course, students will continue to develop their speaking, listening, reading and writing skills in French. Although this is not an immersion class, we will try to do our best to speak in French as much as possible. We will be playing games, watching French films, reading short stories, making our own plays, listening to music, learning new vocabulary and grammar and having a great time. Some of the themes we will be studying this year are:

- Music
- Films
- French culture
- Clothing

These themes may change based on the interests of the students.

MUSIC 20S (1 CREDIT)

This course will include an exploration of the concepts of music and performance through skill development in singing and contemporary rock instruments. Students will build their understanding of musical elements, music theory, structure of songs, lyric writing, and chord function. Students will also research aspects of music for real world application, including audio recording and sound editing. The course may include student-led project-based learning activities and content may vary depending on the interests of the class.

OUTDOOR WILDERNESS EDUCATION (1 CREDIT)

Rationale: Outdoor Wilderness Education 21G Given our students' geographical location they are exposed to a variety of outdoor experiences. Therefore, it is important that our students gain the knowledge, skills, and attitudes for lifelong participation in the outdoors.

Student learning Outcomes

- Module 1: Outdoor Survival Skills
 - Students will demonstrate proficiency in various outdoor survival skills
- Module 2: Food Collection and Preparation
 - Students will describe a variety of methods to collect, prepare, and cook food in the wild.
- Module 3: Outdoor Environment Navigation
 - Students will demonstrate the knowledge and skills to, safely and responsibly, navigate the outdoor environment.

- Module 4: Stewardship of the Outdoor Environment
 - Students will demonstrate an appreciation for minimum impact travel while in the backcountry.

VISUAL ARTS 20S (1 CREDIT)

Foundations in Art

This course is designed to help students develop further experiences in art. Students will continue to use materials from the previous year, as well as using new materials to create artwork. Topics carry over from the previous year, but there are some different ones.

Topics include (*tentatively):

Art themes: Aboriginal and Pop art

*Plaster bas relief

Drawing the face

*Soapstone carving

Texture collage

*Mask making

VOLLEYBALL 11G (1 CREDIT)

The goal of the course is to provide a program that will meet the individual learning needs of highly motivated students. The program will deliver an intense program of learning outcomes delivered through a variety of meaningful instructional strategies.

Students will commit to improving their volleyball knowledge and skills through participation court sessions, classroom theory activities, dry land and cross-training sessions and video analysis. The volleyball instruction is based on the following areas of study:

A. **Theory Areas**

1. Study of International Volleyball
2. Sports Psychology
3. Nutrition
4. Fitness Training/Testing
5. Safety
6. Introduction to NCCP Level 1 Coaching

B. **Technical Areas**

1. Fundamental Skill Development
2. Individual tactics
3. Team Tactics
4. Position Specific Skills and Strategies
5. Team Play Systems

C. **Dry land Training Areas**

1. Weight Training
2. Skill Stations
3. Circuit Training
4. Cross Training
5. Fitness Testing

WOODWORK TECHNOLOGY 20G (1 CREDIT)

An advanced program will introduce students to planning furniture, selection and use of hand tools, advanced joinery and finishing. An introduction to basic construction is also offered as a portion of the program along with CNC and Laser Engraver use.