

## **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 designed to move students from the exploratory level of Grade 9 towards a greater awareness of the variables of language and communication. The program will involve students in a variety of language activities with the object of increasing 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, such as short prose, novels, drama and poetry as well as visual material 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 at the Grade 10 level is designed to explore both physical and human issues related to five main topics: geographic literacy, natural resources, food from the land, industry and trade, and urban places. Students will examine many topical issues such as weather mapping and water stewardship, land usage, physical and social diversity, and global positioning technology. The course features a diverse range of interesting topics from Canada's geologic history to the projections on potential effects of climate change.

### **MATHEMATICS 20S**

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.

#### **ESSENTIALS OF MATHEMATICS 20S (1 CREDIT)**

Essentials of Mathematics 20S is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields. This course emphasizes consumer applications, problem solving, decision-making, and spatial sense.

Students are expected to work both individually and in small groups on mathematical concepts and skills encountered in everyday life in a technological society.

Topics include:

- |                                    |                       |
|------------------------------------|-----------------------|
| 1. Gross pay, time cards, percents | 5. Angles             |
| 2. Net pay                         | 6. Consumer decisions |
| 3. Measurement                     | 7. Trigonometry       |
| 4. Geometry                        | 8. Transformations    |

## **INTRODUCTION TO APPLIED & PRE-CALCULUS MATHEMATICS 20S** **(1 CREDIT)**

Introduction to Applied & Pre-Calculus Mathematics 20S is designed for students considering post-secondary studies that require a math pre-requisite. This pathway provides students the mathematical understanding and critical-thinking skills that have been identified for specific post-secondary programs of study.

Components of the curriculum are both context driven and algebraic in nature. Students will engage in experiments and activities that include the use of technology, problem solving, mental mathematics, and theoretical mathematics to promote the development of mathematical ideas. These experiences will provide opportunities for students to make connections between symbolic mathematical ideas and the world around us.

A mark of 70% in Mathematics 10F is recommended to register for this course.

- Topics include:
1. Relations and Functions
  2. Linear Functions
  3. Systems of Linear Equations
  4. Measurement
  5. Trigonometry
  6. Factors and Products
  7. Roots and Powers

## **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 mental health.

## **SCIENCE 20F (1 CREDIT)**

The Science 20F course is designed to develop and emphasize foundation skills in the areas of:

- scientific literacy and communication
- problem-solving
- relationships between society, technology, science and the environment

Clusters:

1. Dynamics of Ecosystems
2. Chemistry in Action
3. Dynamics of Motion
4. Weather Dynamics

Text: Sciencepower 10

## **GRADE 10 OPTIONS**

### **CAREER DEVELOPMENT 20S: LIFE/WORK PLANNING**

Career Development 20S will connect school learning with workplace and labour market realities. This course places a greater emphasis on student outcomes related to communication skills, work information, work trends, self-assessment, matching personal skills to occupation, stereotyping and discrimination in the workplace, and work-search tools. Participation of 10 hours in a community based work experience is a requirement of this course.

The five units covered will be:

Unit 1: Personal Management

Unit 2: Career Exploration

Unit 3: Learning and Planning

Unit 4: Job Seeking and Job Maintenance

Unit 5: Career and Community Experiences

### **CONCERT BAND 20S (1 CREDIT)**

The Grade 10 Band program is open to any student who has completed at least three years of instruction on a Concert Band instrument (eg. Brass, Woodwind, Bass, or Percussion). Students with less than three years of formal instruction may join the program with the permission of the instructor. The program will provide students with the opportunity to improve their playing skills in a Full Band and Small Ensemble setting. Students will continue learning basic theory and musicianship skills through performing a wide variety of Band repertoire. As well, jazz improvisation, style, and technique will continue with the opportunity to perform on keyboard and string instruments.

Students participating in the Band program will be expected to perform at various concerts, festivals and school functions during the year; failure to attend may result in withdrawal from the course.

### **CONCERT CHOIR 20S (1 CREDIT)**

Concert Choir 20S is designed for students who have a strong interest in music and ensemble singing. Students will sing a variety of music from many cultures and traditions including Jazz, Classical and World music. Students will expand their understanding of reading music, music theory and history. Students will be required to perform at concerts and festivals throughout the school year; failure to attend will result in withdrawal from the course.

## **DRAFTING DESIGN TECHNOLOGY 20G (1 CREDIT)**

“Learning Today for Tomorrow”

This course will provide an opportunity for students to develop drafting skills in a practical activity-based approach. Drafting projects will be incorporated, allowing the students hands-on experiences in different stages as they develop the necessary theoretical background in order to design and construct various drawings utilizing AutoCAD and Revit computer design programs. An introduction to Architecture-Residential Drafting and Design with the inclusion of Residential computer design programs and the Solid Works Design program utilizing a 3-D Printer will be incorporated to enhance the program. The development of good work habits will be a key component, as emphasized in any workplace.

Text: Architecture Residential Drafting & Design, AutoCAD Level 2 Modules

## **DRAMA 20S (1 CREDIT)**

This entry-level course focuses on the introduction and development of dramatic skills. The course objectives aim to encourage creativity, to develop concentration and problem-solving skills, to build upon existing vocal and physical skills and to develop an awareness of structure and process in drama. Both individual and group work is stressed.

## **ELECTRICITY/ELECTRONICS TECHNOLOGY 20G (1 CREDIT)**

This course will provide an opportunity for students to develop electronic skills using a practical activity-based approach. Electricity/Electronics projects will be incorporated, allowing students hands-on experiences in the different stages, as they develop the necessary theoretical background to design and construct various projects in the respective fields. Robotics electronic kits, programming, and residential wiring will be incorporated to enhance the practical portion of the course. Safety and developing good work habits will be a key component, as emphasized in any workplace.

## **FAMILY STUDIES 20S (1 CREDIT)**

Students will examine decision making skills, communication, choices, and planning for their future. Adolescents are faced with some tough choices and the family studies program provides the opportunity to examine issues in a realistic and meaningful way. Topics include issues facing teens, pregnancy, childbirth, parenting, family, and pre and postnatal development. Workshops, guest speakers, and large and small group activities provide an opportunity for all students to enjoy the family studies experience.

## **FRENCH: COMMUNICATION & CULTURE 20F (1 CREDIT)**

The Francais de base or Basic French program offered at the high school level is designed to give the student a working knowledge of French, both orally and in writing. The program provides a balanced approach to the four basics of language learning:

- |                            |            |
|----------------------------|------------|
| 1. Listening Comprehension | 3. Reading |
| 2. Speaking                | 4. Writing |

It is a theme-based approach, which encourages students to interact with one another in a communicative context. Themes such as food, childhood memories, publicity, youth and youth issues and Canada will be studied. There will also be general vocabulary expansion as situations come up in everyday discussion. Plays and skits performed in French as well as interactive communicative games will be an integral part of studying French culture in the classroom. A field trip is planned for the St. Boniface Museum as well as a dinner at an authentic French restaurant. Trips to Quebec City and Montreal may be planned if students are interested.

Vive le francais!

Text: Voyages I

## **HISTORY: AMERICAN 20G (1 CREDIT)**

Who lived in the Thirteen Colonies? What happened during the American Revolution? How did the U.S.A. expand all the way to the Pacific Ocean? Why did the Civil War occur and how did the nation attempt to rebuild itself after its conclusion? These are just some of the fascinating historical moments that are examined in this course. The primary intent of the American History course is to create a greater understanding of significant historical events that shaped the United States. It is intended to be a survey course with a focus and emphasis on those historical developments that have influenced the world, especially Canada. This course will help students explore and better understand the impact that American history has had on shaping American society and influencing other areas of the world. It also helps students to further develop critical thinking skills, research skills and writing skills.

Topics:

1. Colonization, Revolution, and Constitution
2. Territorial Expansion, Civil War and Reconstruction
3. Economic, Social and Political Developments from 1865-1919
4. Foreign Policy and Domestic Changes from 1895-1945

**HOME ECONOMICS: TEXTILE ARTS & DESIGN / FOOD & NUTRITION 25S**  
**(1 CREDIT)**

**A. Textile Arts & Design 25S (0.5 Credit)**

Grade 10 Textile Arts and Design explores the broader knowledge and skills required to design and create textile products. Students will examine the basics of creative costuming, cultural fashion design, and consumer choices that have an impact on individuals within their community. Students will complete a hooded sweater, a quillow and a third project of their choice.

**B. Food & Nutrition 25S (0.5 Credit)**

This course enables students to develop a broad interest in foods in such a way that they are motivated to continue practicing and learning about food. Students will develop a further interest of food while learning about the significance of nutrients and consumer aspects of food and nutrition.

Labs: students will learn to prepare nutritious meals that include all six nutrients.

**MATHEMATICS 20S (1 CREDIT)**

Students may take either of the two Grade 10 Math courses offered (Essentials of Mathematics, Introduction to Applied & Pre-Calculus Mathematics) as an elective. Course descriptions are found in the Grade 10 Compulsory Course section.

**METALWORK/WOODWORK TECHNOLOGY 25G (1 CREDIT)**

**A. Metalwork Technology 25G (0.5 Credit)**

This course is a continuation of the Grade 9 program and covers hand tools, machines and processes that are used in both sheet metals and bench metals. Arc and acetylene welding are compulsory at this level. The instructor selects projects so that students may demonstrate that they have acquired a degree of skill while using various machines and processes.

Text: Repp, Victor E., Metalwork Technology & Practice

**B. Woodwork Technology 25G (0.5 Credit)**

This course is a continuation of the Grade 9 program and will include intermediate level design and planning. Safe and proper use of hand and power woodworking equipment will be taught throughout the program. Hands-on projects will further develop drafting, design, and woodworking skills. Students will be required to complete compulsory projects. Optional projects are at the discretion of the instructor.

## **READING IS THINKING 20S (1 CREDIT)**

The Reading is Thinking course focuses on three big ideas:

1. Thinking About Self - developing identities as confident, engaged, and motivated readers.
2. Thinking About Text - developing the characteristics and practices of proficient readers before, during, and after reading across the curricula (content area and pleasure reading).
3. Thinking About The World - develop critical reading/literacy skills to demonstrate deeper understanding of a variety of text in order to express and substantiate personal positions as well as solve problems, resolve conflicts, and take action in their world.

This course will help students prepare for the rigor of high school and provide them with strategies and tools to be successful.

## **RETAILING PERSPECTIVES 30S (1 CREDIT)**

More than 50% of Canadian youth work in the retailing industry during and/or after high school. Retailing 20S will focus on a number of topics relevant to the retailing industry:

1. Rights and responsibilities of new workers
2. Buying and pricing merchandise
3. Advertising and its effect on consumers
4. The global economy and ethics in business
5. Career opportunities in the retailing field

Students will have the opportunity to further develop skills that are important for success in the retail industry, including cash handling, customer service, and teamwork through the operation of the school store, SCI Supplies.

In order to be successful in this course, you must be reliable and willing to work in the school store during scheduled lunch hours.

## **VISUAL ARTS 20S (1 CREDIT)**

This course is designed to be an extension of the Grade 9 Art program with more exploration in creativity and developing skills with materials. Students will use a variety of media and focus on developing visual awareness, art appreciation, and art production. Various aspects of art history from the Renaissance to contemporary artists will be explored. Students will explore clay, sculptural materials, drawing, and painting and other materials.

Most supplies are provided in class, however students should be prepared to purchase a sketchbook, pencils and erasers. Other specialized materials may need to be provided by the student.

## **WEB DESIGN & 2D ANIMATION 35S (1 CREDIT)**

This course will introduce students to creative expression using a variety of computer technologies and media. Students will develop introductory skills in creating 2D animations and sound recordings using Adobe Animate. Students will also learn how to design and create web pages using a variety of applications as well as gaining an understanding of the basics of html and CSSS programming languages.