

## **Elkhorn School Courses Potentially Offered to Grade 9 & 10 Students**

### **Grade 9 Compulsory Courses (6 credits)**

#### **Mathematics 10F (MAT 10F)**

Mathematics 10F focuses on developing mathematical knowledge, skills, and attitudes by utilizing a problem solving approach. Units include rational numbers, linear relations, inequalities, surface area, circle geometry, statistics, polynomials, equations, powers and exponents, similarity. Student goals are to value math, to become confident in their math abilities, to become math problem-solvers, and to communicate and reason mathematically.

#### **Reading is Thinking 11G (RIT 11G)**

Students will experience texts from a variety of forms and genres [such as essays, articles, and novels] where cultural traditions, personal experiences, community, and Canadian perspectives are presented. Students will analyze meaning, discuss and provide supporting details, while examining the use of a variety of stylistic techniques [including establishing setting, characterization, mood, and stereotyping] to portray gender, cultures, and socioeconomic groups in literary and media texts. Reading is thinking will take place in the first semester and provide background knowledge for English 10F in the second semester.

#### **English 10F (LAE 10F)**

This course is based around the 5 General Outcomes, which are part of the Foundations for Implementation of the Grade 9 Manitoba Curriculum. The General Outcomes are: exploring thoughts, ideas, feelings, and experiences, comprehending and responding personally and critically to literary and media text, managing ideas and information, enhancing the clarity and artistry of communication, celebrating and building community. Students will practice and develop skills in reading, writing, listening, speaking, representing, and viewing.

#### **Science 10F (SCI 10F)**

Science 10F is the alphabet soup of science covering Chemistry to Physics and everything in between. Through classroom studies and discussions, experimentation, demonstrations, activities, project work and assignments we will connect science and the real world.

#### **Canada in the Contemporary World 10F (CIC 10F)**

This is a general study of Canadian topics with focus on identity and culture, regional challenges, Canadian government, Canadian law, Canadian economic system, French-English relations, plus Canada and the world.

#### **Physical Education 10F (PED 10F)**

Students are expected to participate in a variety of physical activities including individual/dual/team sports, alternative pursuits, and fitness activities scheduled on an ongoing basis throughout the semester.

Guidelines for PE/Health include five components:

- Movement – Students demonstrate competency in selected movement skills and knowledge of movement development.
- Fitness Management – Students demonstrate the ability to develop and follow a personal fitness plan for lifelong physical activity.
- Safety – Students demonstrate safe and responsible behavior to manage risk and prevent injuries in physical activity. Students also learn to promote safety in the home, school, community and the environment.

- Personal and Social Management – Students demonstrate the ability to develop self-understanding, to make health-enhancing decisions, to work co-operatively and fairly with others and to build positive relationships with others.
- Healthy lifestyles practices – For students to demonstrate the ability to make informed decisions for healthy living related to personal health practices, active living, healthy nutritional practices, substance use and abuse and human sexuality.

### **Grade 10 Compulsory Courses (6 credits)**

In Grade 10 students are offered two choices for mathematics. Students only require one grade 10 math credit for graduation, but students are encouraged to take both courses if possible. The mathematics options are Introduction to Applied and Pre-Calculus Math 20S (MAC20S) and Essential Mathematics 20S (MES20S). All students will be required to take Essential Mathematics 20S and the Introduction to Applied and Pre-Calculus Math 20S will be optional. **Students are to attain a mark higher than 60% in Grade 9 MAT 10F if they are planning to take MAC20S. Students who attain a mark between 60% and 75% in MAT10F are asked to consult with Elkhorn School Staff if they are planning to take MAC20S. Students must complete Intro to Applied and Pre-Cal (Grade 10) in order to enter into Applied and Pre-Calculus Math at Grade 11.**

#### **Essential Mathematics 20S (MES 20S)**

Grade 10 Essential Mathematics (20S) is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields. Grade 10 Essential Mathematics (20S) is a one-credit course consisting of two half-credits with topics in unit pricing, currency exchange, income, length, area, volume, mass, angles and parallel lines, similarity, and trigonometry.

#### **Introduction to Applied & Pre-Calculus Mathematics 20S (MAC 20S)**

Grade 10 Introduction to Applied and Pre-calculus Mathematics (20S) is intended for students considering post-secondary studies that require a math pre-requisite. This pathway provides students with the mathematical understanding and critical-thinking skills that have been identified for specific post-secondary programs of study. The topics studied form the foundation for topics to be studied in both Grade 11 Applied Mathematics and Grade 11 Pre-Calculus Mathematics. Topics include factoring, roots and powers, relations and functions, linear functions, systems of equations, trigonometry and measurement.

#### **English 20F (LAE 20F)**

English 20F is a continuation of the program begun in Grade 9. This course follows the Grade 10 Manitoba curriculum. Students are evaluated on successful work in the five General Outcomes and the 56 specific outcomes. These are achieved through a study of novels, drama, poetry, fiction and non-fiction; and through reading, writing, listening, speaking, representing, and viewing.

#### **Science 20F (SCI 20F)**

Science 20F is a required Grade 10 Science course for all students graduating in Manitoba. Like Science 10F (Grade 9 Science), the course helps students develop a better understanding of basic scientific principles, process and concepts across the major divisions of science – Chemistry, Physics, Ecology and Earth Science. Students will learn about the inner workings of ecosystems, chemical reactions, weather, and moving objects. Upon the successful completing of Science 20F, students will be better prepared to make informed decisions about science course choices at the grade 11 and 12 levels.

### **Geographic Issues of the 21<sup>st</sup> Century 20F (GIS20F)**

In Geographic Issues of the 21<sup>st</sup> Century, students focus on a variety of issues and challenges of the contemporary world. They explore the nature of geography and develop skills related to geographical thinking. Students use the methods and tools of geography to examine issues and problems and to propose viable solutions. Through their study of geography, students become aware of the importance of the environment, stewardship, and sustainable development, as well as the social, political, and economic implications of their personal choices.

### **Physical Education 20F (PED 20F)**

Students are expected to participate in a variety of physical activities including individual/dual/team sports, alternative pursuits, and fitness activities scheduled on an ongoing basis throughout the year.

Guidelines for PE/Health include five components:

- Movement – Students demonstrate competency in selected movement skills and knowledge of movement development.
- Fitness Management – Students demonstrate the ability to develop and follow a personal fitness plan for lifelong physical activity.
- Safety – Students demonstrate safe and responsible behavior to manage risk and prevent injuries in physical activity. Students also learn to promote safety in the home, school, community and the environment.
- Personal and Social Management – Students demonstrate the ability to develop self-understanding, to make health-enhancing decisions, to work co-operatively and fairly with others and to build positive relationships with others.
- Healthy lifestyles practices – For students to demonstrate the ability to make informed decisions for healthy living related to personal health practices, active living, healthy nutritional practices, substance use and abuse and human sexuality.

### **Life/Work Planning (LWP 20S)**

This course is designed to help students develop the ability to make effective decisions, set goals, make plans and act on plans, evaluate and modify plans to adjust to change. Students will be required to engage in and manage their own life/work building process. They will review the various components of the high school program, reflect on personal experiences and use this knowledge in developing /refining an annual education plan and career portfolio. Students will learn about the changing nature of life/work roles, factors involved in making life/work enhancing decisions, lifelong learning and its contribution to one's life and work. In addition to the classroom component students will spend time in the community to get exposure to a specific occupational experience.

### **Grade 9 and 10 Optional Courses**

Some of these optional courses may become mandatory in certain years depending on factors including staffing and class composition.

#### **French (FRE 10G, FRE 20G)**

The French curriculum enhances many aspects of other courses. Students acquire different learning processes, which are only developed by taking a second language. Students read, write, view and speak as they explore different themes. Students are actively involved in their learning at each step of the process. Evaluation is varied and frequent, including a final exam.

The French curricula recognize that learning is a gradual and cumulative process. Each grade level builds on past concepts, skills, knowledge, and experiences; each level contains specific communication, experience, and language objectives.

A second language enhances personal opportunities for jobs, careers, education, travel, and relationships.

### **Band (BND 10G, BND 20G)**

Band classes meet every second day for the entire school year. The Band program covers all types of music from Baroque to Modern 20<sup>th</sup> Century music. Band skills such as technical, expressive and reading skills are developed and emphasized. Music history, theory and ear training are part of the Band program. The band performs throughout the year. In all band years, the goal is to develop a well-trained and skilled band member. Out-of-class activities include performances at assemblies, concerts, Virden Festival and Optimist Festival (Winnipeg), band tours, and clinics. Enthusiasm and a love of music are required.

### **Human Ecology 10G/20G (HEC 10G/20G)**

Students will be introduced to nutrition and food where they will learn about making good food choices, as well as purchasing and preparing a variety of recipes. The second half of this course involves learning about clothing and textiles through examining construction, care and selection of materials. Students will purchase the materials for hands-on practical sewing projects.

### **Electronics 10S (ELE 10S)**

Students will have the opportunity to explore various aspects of the electronics industry. Students will learn about terminology, basic electrical theory, circuits, and electronic test equipment.

### **Business Innovations 10S (BIN 10S)**

This course is designed to introduce the student to a variety of business activities with a focus on entrepreneurship and the business world. Students are given the opportunity to acquire various business skills which can be utilized in numerous business settings. Students considering entrepreneurship are given the opportunity to research potential businesses and the process of running one from its creation. Other topics include: future planning, business communication, introduction to accounting, introduction to law, other influences affecting business, and more. This course is recommended for all Grade 9 or 10 students to help them for future personal success.

### **Personal Finance (PFN 20S)**

How do we effectively manage our personal finances so that we can reach our short-term and long-term goals? Personal Finance focuses on developing fundamental financial literacy skills, including the value of money, basic economics, budgeting, saving, financial institution services and investing. Many high school students will get their first part-time job while in school or are starting to dream about future purchases that require financial planning such as buying a car, travelling or pursuing a post-secondary education. It is a good option for any student interested in learning more about how to make good personal financial decisions. Financial literacy is a life skill so this course is designed for everyone. This course is an excellent starting point for any student interested in furthering their studies in the area of: business, accounting or economics.

### **Creative Promotions 20S (PRO 20S)**

This marketing course focuses on promotion and personal selling. Major topics include target markets, promotion, color, lettering, design, advertising, displays, customer service, and personal selling.

### **Retailing Perspective 30S (RET 30S)**

Students will be introduced to the skills and practical applications required to get a part-time or full-time job in the retailing area. Retailing offers you the opportunity to start your own business or to work at an entry-level position that offers the potential for growth or promotion. Topics of study include: store policies, analyzing target markets, the buying process, inventory, pricing, store image, layout and displays, and the steps in the selling process.

### **Business Communications 30S (BCO 30S)**

Business Communications focuses on communication skills and techniques that are essential in business. Students will develop effective written, verbal, interpersonal, and visual communication skills. They will also learn how to use current technologies to create communications that are clear, concise, and designed for business. Business Communications is designed for students interested in pursuing post-secondary studies in the business field. It is also a desirable course option for future entrepreneurs or any individual who wants to develop effective workplace communication skills.

### **Venture Development 30S (VDV 30S)**

Venture Development 30s is designed to build on the concepts introduced in Business Innovations. This course is beneficial for students who would like to develop the skills and attributes required to help meet the challenges of the ever-changing economic realities of our world. These skills will be extremely important so that graduating students will have the opportunity to market their skills to prospective organizations. Course highlights include looking at working environments, types of businesses, business skills required for the changing workplace, and entrepreneurship. During the semester, we will be responsible for setting up mini-ventures, creating a formal business plan, operating the school store, and have significant involvement with the fun fair.

### **Agriculture 30S (AGR 30S)**

The course examines the physical and climatic features of Manitoba, soil management practices, crop varieties, and soil, plant, and animal science. The study of agriculture provides us with knowledge and understanding of agricultural processes and is also useful in providing information related to career choices. Agriculture 30S examines historical perspectives of agriculture in the province, as well as present concerns and trends. The past, present, and future of agriculture are an important part of this course as they relate to Manitoba's economy, social, and cultural development, consumer habits, and politics.

Unit 1: Manitoba Agriculture: An Overview

Unit 2: Soil Science

Unit 3: Plant Science

Unit 4: Animal Agriculture in Manitoba

### **Grade 10 Only Optional Courses**

Some of these optional courses may become mandatory in certain years depending on factors including staffing and class composition.

### **Computer Science 20S (CSC 20S)**

**Prerequisite/Co-requisite:** Intro to Applied Math and Pre-Calculus 20S

This course is specifically designed for students who want to learn computer programming. Programming is done using Microsoft Visual Basic. Students will recognize that many of the features in Windows-based programs originate in Visual Basic. This course will allow students to acquire the skills necessary to program their own simple computer games and utilities, incorporating .JPEG visual files and .WAV audio files into their programs. This course will also enhance students' abilities to program their graphing calculators. Students entering Engineering, Management, Computer Science, or Statistics at the university level, or Information Systems Technology, Computer Analyst/programmer, Computer Animation, or Computer Gaming at the community college level, or any other Information Technology (IT) program will find this course very valuable. Also, students in accounting will find that a background in Visual Basic programming will greatly help as they learn how to set up and manage data-base driven accounting programs in college.

**Accounting Principles 30S (ACP 30S)**

Accounting Principles 30S is designed for all students and is especially beneficial for students with entrepreneurial and/or accounting aspirations. Business terminology and practices are introduced, as the accounting cycle is studied. Accounting Principles 30S may be part of career exploration in areas such as professional accounting, management and business administration, computer technology and statistics.

**Applied Business Technologies (ABT 40S)**

Applied Business Technologies 40S is a full-credit course designed for those students who are pursuing business and office work. The course covers practical topics that students will be able to apply to future careers in business and the office. The course consists of seven units of study: Computer Skills, Electronic Communications, Information Management, Desktop Publishing, Reprographics & Machine Transcription, Office Practicum/Simulation, and Keyboarding.