



## Grade 11 Course Descriptions

### Mandatory Courses

#### **Applied Math 30S**

**(Prerequisite - 65% in Introduction to Applied and Pre-Calculus Mathematics 20S)**

Grade 11 Applied Mathematics 30S is intended for students considering post-secondary studies that do not require a study of theoretical calculus. Primary goals of Applied Mathematics are to have students develop critical-thinking skills through problem solving and model real world situations mathematically to make predictions. The Grade 11 Applied Mathematics course includes the following topics: measurement, geometry, logical reasoning, statistics, and relations and functions.

#### **Biblical Studies 31G**

This course will explore the basic doctrines of the Christian faith interwoven with 2000 years of church history. Topics covered will include the development and doctrine of the Early Church including the concept of the Trinity, the formation and trustworthiness of the Bible and history throughout the Reformation to the present day.

#### **History of Canada 30F**

This course looks at the development of Canada using historical thinking skills. Canada's political, economic, and social histories are examined as a background upon which to evaluate contemporary Canadian issues. Topics include: Canada's first people, establishment of the French regime in Canadian society, conquest and struggle under the British regime, immigration, the development of Western Canada, the development of government, beginnings of parliamentary system, establishment of confederation, social change as a result of technology, change and consolidation as a nation, and French/English relationships.

#### **ELA Literary Focus 30S**

This course will provide students with an opportunity to engage with and produce language that enlightens, fosters understanding and empathy, reflects culture, expresses feeling and experiences, and brings learning and enjoyment. Focus will be on the creative, aesthetic nature of language. The Literary Focus course places more emphasis on working with texts for aesthetic purposes (70%) than for pragmatic purposes (30%). As a result, this course will provide opportunity for interpretation of written texts and creatively developing your own texts.

#### **ELA Transactional Focus 30S**

In this course, students will be reading, writing, speaking, listening, viewing, and representing as they explore the pragmatic or transactional elements of the English Language. The focus of the course content will be on clear, concise and effective communication through the texts and activities they will experience. The Transactional Focus course places more emphasis on working with texts for pragmatic purposes (70%) than for aesthetic (30%) purposes. When you engage with a text for pragmatic purposes, you expect to take some knowledge and information from the text, and therefore clarity is very important. This course will help you express ideas clearly and directly and to be organized and formatted in a logical way.

### **Essential Math 30S (Prerequisite – Grade 10 Math credit)**

Grade 11 Essential Mathematics 30S 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. Grade 11 Essential Mathematics builds on the knowledge and skills of Grade 10 Essentials Mathematics and provides a foundation for the topics studied in Grade 12 Essentials Mathematics. Topics include: Analysis of Games and Numbers, Interest and Credit, Managing Money, 3-D Geometry, Relations and Patterns, Statistics, Trigonometry, Design, and Mathematical Modeling.

### **Physical Education 30F - Active Healthy Lifestyles**

This compulsory full-credit course is designed to help youth take greater ownership of their own physical fitness, to encourage them to seek out activities that interest them, and to incorporate active lifestyles into their futures. Students will study topics related to fitness management, motivation, mental health, substance use and abuse prevention, and the social impact of sport. The focus of this content will be on health and personal planning. These topics will make up the core 50% in-class component of the course content. Students will be required to develop and implement the remaining 50% of the course on their own time in a personal physical activity plan as part of the physical activity practicum. Students will be introduced to safety and risk management planning to minimize the associated risks of the activities they have chosen. As part of earning a credit for this course, students will be required to submit a personal fitness plan and a physical activity log (60 hours). Students will be graded for completion of the course with a Complete or Incomplete designation.

### **Precalculus Math 30S**

#### **Prerequisite - 70% in Introduction to Applied and Precalculus Mathematics 20S)**

Grade 11 Precalculus Mathematics 30S is designed for students who intend to study calculus and related mathematics as part of post-secondary education. It builds on the topics studied in Grade 10 Introduction to Applied and Precalculus Mathematics and provides background knowledge and skills for Grade 12 Precalculus Mathematics. The course comprises a high-level study of theoretical mathematics with an emphasis on problem solving and mental mathematics. The topics include study of algebra, quadratic functions, reciprocal functions, and trigonometry

## **Electives**

### **2D Animation 35S**

In this course students will be exploring three main topics: storyboarding, the traditional draw-a-picture-and-take-a-photo-of-it method of animation, and flash animation. Other topics include making a storyboard, drawing an animation, shooting an animation, creating a simple automated Flash animation, text effects, creating a banner, acceleration, deceleration, and deformation using a bouncing ball, animating multiple objects, grouping objects, reusing groups/movies, planning a Flash animation, creating a full-fledged Flash animation, and human and animation interacting.

### **Accounting Essentials 30S (Online format with an LCS teacher available in class)**

Accounting Essentials 30S is an introductory course that covers basic skills in the field of Accounting. A foundation will be laid through the introduction of language used by accountants, creating basic journals, ledgers, worksheets, exploring cash control, payroll accounting, income tax, and computerized accounting. The concepts will involve simulations of various accounting situations that might be encountered in business.

### **Art 30S**

Art 30S develops elements of art through a variety of art mediums. Students continue to develop an appreciation for art and an understanding of art history. A portfolio of student work is expected to develop during this course. Course content includes: Acrylic Painting, Mosaic Project, Art History, and Architectural Drawing.

### **Band 30S (Prerequisite Band 20S or audition)**

This class will provide the structure for students to further develop their instrumental skills that were established in Band 10S and 20S. These skills include increased competence on their specific instrument, a working knowledge of music theory, a greater understanding of performance, an increased ability to perform in a large ensemble, and the discipline to model Christ-like professionalism by taking personal responsibility for the ensemble.

### **Biology 30S**

Biology 30S presents a general approach to the study of the human body with an emphasis on anatomical structure and physiological processes. The course design will benefit students who plan to be involved in careers that are related to the human health care industry. Thstudents will be involved in laboratory activities involving the collection and analysis of data. The course develops critical thinking skills and promotes the integration of knowledge and application of facts to real-life situations.

### **Broadcast Media 35S (½ credit)**

The purpose of this course is to provide students with the skills and knowledge to create interactive media products that combine video, audio, and interactive components. Prior to taking the course, students should have skills in creating audio and video and an understanding of the media production process. Students will plan, develop, and publish interactive media.

### **Chemistry 30S**

This course will introduce students to the basic concepts of chemistry. The units included in this course are: Physical Properties of Matter, Gases and the Atmosphere, Chemical Reactions, Solutions, and Organic Chemistry. Chemistry 30S is a lab-intensive course designed to help students connect theory with real-world application. Students will gain knowledge and skills useful for everyday chemistry and for further study in chemistry.

### **Choral Music 30S (Prerequisite Choral Music 20S or audition)**

Students will continue to explore individual skills and focus on ensemble performance skills. They will continue to develop vocal technique, listening/aural skills, and music reading skills, musical independence, expressive and communicative skills, and adaptability as a performer, as well as study, preparation, performance skills and an understanding of historical contexts. Students will also be encouraged to develop an enthusiasm and appreciation of choral expressive art.

### **Computer Science 30S (Online course)**

**If students are interested taking in Computer Science 30S there will be an initial registration fee of \$250.00. Once students have successfully completed the course the registration fee will be reimbursed.**

Computer Science is the study of how computer technology works. In this introductory course, students learn how computers represent, transmit and encrypt data (numbers, text and images) and how computer technology has developed over the years. The course emphasis is on how computer programs are written. Students will learn to write computer programs using the Java programming language, which is the most commonly used programming language in the world. This is a project based course in which students create interactive computer games and two-dimensional simulations using a programming environment called Greenfoot ([www.greenfoot.org](http://www.greenfoot.org)).

### **Desktop Publishing 35S (½ credit)**

Students will plan and produce print documents conforming to recognized standards for advertisements, brochures, flyers, magazines, media inserts, newsletters, newspapers, posters, programs, and yearbooks.

### **Drama 30S**

This course further develops the skills learned at the Drama 20G level. Students will be learning and applying structures in order to create drama pieces, based on themes and topics that the teacher and students decide are relevant to explore. This course builds on the skills learned at the Drama 20G level. Students are involved in a variety of improvisation, role-play, movement, speech, and vocal activities. Students are introduced to a wider variety of strategies to improve audition performance, including the development of repertoire such as monologues, mimes, and sketches. An understanding of theatre and stage terminology and the role and function in society past and present and in the church will be explored. Field trips to view live theater performances and attending festivals, conferences or workshops may also be part of the course.

### **Family Studies 30S**

This course provides skills and knowledge in the areas of parenting, relationships, character, and the well-being of families and individuals. Students will gain an understanding of present parental experiences, evaluate a variety of social circumstances and develop values and expectations for their future family. Students study the functioning, caring, and nurturing of families in society during different stages of the life cycle. Students will gain a better understanding of how to communicate with and relate to parents and peers, and techniques to manage stress in today's rapidly changing world. This will be hands-on learning related to daily living. This course includes potentially sensitive content. Topics covered include: family rights and responsibilities of parents, prenatal care and development, pregnancy, caregiving of infants, human development focusing on infancy to adolescence, health and wellness, finances, and compassionate communities.

### **French 30S**

A major goal of students who choose French in high school is to develop a basic oral fluency. This course will continue to develop this fluency through speaking and listening, as well as by reading and writing. In this course students will do a novel study, creative writing assignments, study various topics (ex: travel, crime, the Francophone world) and be expected to operate solely in French in the classroom. Students will be studying a wide variety of verb tenses and projects will be presented to the class. An oral exam accompanies the written exam at the end of term.

### **Introduction to Spanish 15F (1/2 credit)**

This course is an introduction to the Spanish language and intended for students with no prior knowledge. The focus of the course will be to develop strong communication skills in all areas of the language (listening, reading, speaking and writing). Using this approach, students will be expected to take risks and develop confidence in communicating in Spanish.

### **Jazz Band 30S (must be enrolled in Band 30S)**

This class will help students develop necessary skills for becoming an independent musician outside of a structured classroom. These skills include: a working knowledge of music theory (specifically jazz theory), the ability to perform various jazz forms, a working knowledge of the history of jazz, an ability to improvise in various styles, and the discipline to model Christ-like professionalism by taking personal responsibility for the ensemble.

### **Physics 30S**

Physics deals with the basic laws of nature governing the interaction between matter and energy. Mathematical formulae are used to describe laws of physics. Demonstrations and experiments are used to illustrate various topics. Problem solving is stressed. Topics include: Waves, The Nature of Light, Mechanics in Motion, and Electric and Magnetic Fields.

### **Venture Development 30S**

Venture Development builds upon the concepts and ideas studied in Entrepreneurship (0319). Students focus on planning, creating, implementing, evaluating, and growing their own business venture. Venture Development is designed for students interested in starting their own business and in furthering their knowledge of business ownership and management principles

## **Vocal Jazz 30S (Must be enrolled in Choral Music 30S)**

This course is an extension of some of the skills taught in the concert choir program and provides an opportunity for an application of these skills as well as many others specifically related specifically to acappella and vocal jazz ensemble music. It is an advanced ensemble and participation is by audition only. This course will require considerable time outside of the school schedule, and students must be prepared to give high commitment to this ensemble. Through exposure to a variety of musical styles, students will explore and develop skills in the areas of ear training, rhythm, harmony, and improvisation. This course will also increase their knowledge of theory, history, terminology and repertoire

## **New Courses**

**(will be offered based on interest and number of students enrolled in the course)**

### **Current Topics in Science 30S**

Units will developed around a current topic in science and take an interdisciplinary approach leading students into areas of content and experimentation to address possible solutions. A high level of student initiative will be expected in planning research interests and outcomes. Students will display and explain their process and results in scientifically literate ways.

### **Spanish 25G (1/2 credit)**

This course is an continuation to the Spanish language with Spanish 15G as a prerequisite. The focus of the course will be to build on what was learned in Spanish 15G to develop stronger communication skills in all areas of the language (listening, reading, speaking and writing).

### **Basketball Academy 30F (offered before school – 7:15 am – 8:15 am)**

In the Basketball Academy, students will have the opportunity to earn their Physical Education credit with the major focus being on the sport of basketball. Theory units of study will include History of sport, Sport Psychology, Sport Nutrition, Anatomy and Physiology, Fitness Programming and Training, Prevention and Care of Athletic Injuries, Theory of Coaching with the focus on basketball. Sport Acquisition units will include skill development (basic and advanced), individual and team tactics, fitness and conditioning, offensive and defensive strategies as well as cross training activities. In addition to these units there maybe field trips to University practices and games. Specialty guest presenters will also be used to enhance student learning and the overall experience of the course.

### **Fitness Academy 30F (offered before school – 7:15 am – 8:15 am)**

This course will focus on topics, issues and concerns relevant to personal health, wellness and fitness. Students will take part in a wide variety of activities that will help them take greater ownership of their personal physical fitness development, encourage the discovery of new physical activities suited to their personal interests and promote an active, healthy lifestyle and overall personal wellness. Activities will involve weight training, circuit training, core endurance, agility, step aerobics and flexibility exercises. Alternate fitness activities such as aquatics, kickboxing, Pilates, spinning, and skating may be explored. This course is divided into three components: classroom work, in class activity, and out of class activity. Students will study topics related to fitness management, mental health, healthy relationships, substance use and abuse prevention.

### **Volleyball Academy 30F (offered before school – 7:15 am – 8:15 am)**

In the Volleyball Academy (which will include Beach Volleyball) students will have the opportunity to earn their Physical Education credit with the major focus being on the sport of volleyball. Theory units of study will include History of Sport, Sport Psychology, Sport Nutrition, Fitness Programming and Training, Prevention and Care of Athletic Injuries, Theory of Coaching with the focus on volleyball. Sport Acquisition units will include skill development (basic and advanced), individual and team tactics, fitness and conditioning, offensive and defensive strategies as well as cross training activities. In addition to these units there maybe field trips to University practices and games. Specialty guest presenters will also be used to enhance student learning and the overall experience of the course.