



Educating the Heart and the Mind

St. Maurice School

of St. Vital Parish

A K-12 Parochial Catholic School

GRADE 11 COURSE DESCRIPTIONS

ACCOUNTING ESSENTIALS 30S (1.0 credit)

PREREQUISITE: Credit in a Grade 10 Mathematics Course

NOTE: Required course for Business Education Program (BEP) students. This course does not satisfy the Grade 11 Mathematics requirement for graduation. Maximum Class Size: 20

Accounting Essentials helps students gain an understanding of basic accounting. With an emphasis on accounting for a service business, students will apply their knowledge and skills to complete the stages of the accounting cycle. Accounting Essentials provides the fundamentals of accounting and is a good choice for students who plan to further their finance studies. Students interested in pursuing postsecondary studies in any business discipline will benefit by completing this course.

BIOLOGY 30S (1.0 credit)

PREREQUISITE: Science 20F

Biology is the study of the structure, function and interactions of living things. In this course, the basic concepts of biology are introduced to students and are later supported by laboratory experimentation. The main focus of the course is the study of human anatomy and physiology. A representative dissection study will be undertaken to parallel the anatomy lectures.

Topics to be studied include: the classification of living things, cell structure and function; microscopy, membrane transport and mitosis; biochemistry; human systems: digestive, transportation, respiratory, excretory, nervous, sensory, endocrine, and reproductive. Optional topics may include: skeletal, muscular, and integumentary systems. This course is largely non-mathematical, but some simple arithmetic calculations will be encountered.

Note: Biology 30S is required for advancement into Biology 40S. Students interested in any biological or health science program at the University of Manitoba should be aware that effective September 2009 the University of Manitoba will require that students have credit in Grade 12 Biology 40S for entry into those programs.

CHEMISTRY 30S (1.0 credit)

PREREQUISITE: A minimum of 65% in Science 20F, AND a minimum of 65% in Introduction to Applied and Pre-Calculus Mathematics 20S

CO-REQUISITE: Pre-Calculus Mathematics 30S

Chemistry is the study of the properties, changes and compositions of matter. In this course, the basic concepts and calculations of chemistry are introduced to students and are later supported by laboratory experimentation.



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Topics to be studied include: measurement and experimentation, laboratory safety, concepts of matter, physical properties and changes in matter, a review of nomenclature and formula writing, balancing chemical equations, calculations involving reactions, acids and bases, gases and gas laws, the composition of the atom, elements and the periodic table, chemical bonding, solution chemistry, and organic chemistry. Optional topics may include: polymers, chemicals as drugs and food additives.

Note: Good mathematical skills and problem-solving abilities are essential for success in this course. The ability to think abstractly is a great asset when studying chemistry. A strong background in Introduction to Applied and Pre-Calculus Mathematics 20S and Science 20F is recommended. Chemistry 30S is required for advancement into Chemistry 40S.

COMPUTER SCIENCE 30S (1.0 credit)

PREREQUISITES: A minimum of 65% in Web Design 35S **AND** Credit in Introduction to Applied and Pre-Calculus Mathematics 20S **or** A minimum of 60% in Essential Mathematics 20S

The emphasis in computer science courses is on students learning to solve problems, accomplish tasks, and express creativity, both individually and collaboratively. Students will learn programming techniques and the syntax of one or more programming languages. More importantly, students will learn to adapt to changes in programming languages and learn new languages as they are developed. This course is designed for students who have an aptitude and a zest for problem solving and computer programming. Students will use computers to design, write and execute programs using the JavaScript and other object-oriented programming languages.

Note: Computer Science 30S is required for advancement into Computer Science 40S or Computer Science Principles 42S AP[®] (Advanced Placement[®]). Students seeking to register in Computer Science Principles 42S AP[®] must achieve a minimum final mark of 85% in Computer Science 30S and must meet the co-requisite of Pre-Calculus Mathematics 40S.

DESKTOP PUBLISHING 35S (0.5 credit, Term 2)

PREREQUISITE: None

The purpose of the course is to provide students with the skills and knowledge to plan and create a variety of published print documents. Students will:

1. Define the purpose and audience for a print document.
2. Incorporate elements of good design when designing documents.
3. Plan and produce print documents conforming to recognized standards: Brochures, Flyers, CD inserts, DVD inserts, Newsletters, Posters, Programs, Yearbooks.
4. Participate in multi-user document editing and reviewing.
5. Use language and tone appropriate to the communication.
6. Critique and suggest improvements for published documents using given criteria.
7. Accept a critique of a print document and make changes based on the feedback.



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Note: Students registering for this second term half-credit course will be directly involved in the layout and production of the school yearbook as part of their course work. Please note that students will be expected as part of the homework for this course to attend and participate at the after-school meetings of the yearbook club. It is hoped that students who complete this half-course in desktop publishing would choose to volunteer to be official yearbook personnel for the remainder of their schooling at St. Maurice.

ELA: COMPREHENSIVE FOCUS 30S (1.0 credit)

PREREQUISITE: English Language Arts 20F

In ELA: Comprehensive Focus 30S, students will set goals and objectives related to reading, writing, listening, speaking, viewing, thinking and representing. Students will develop skills in evaluating language by focusing on materials and activities which demonstrate different styles in communication. Students will examine, interpret and respond to a wide variety of pragmatic and literary texts. They will examine how language choices accomplish a variety of purposes for different audiences. Assessments will include student generated essays, reading responses, creative writing pieces and projects.

Note: Should space be limited for the Grade 12 course ELA: Literary Focus 40S, preference is given to students who achieved the pre-requisite from Literary Focus 30S.

ELA: LITERARY FOCUS 30S (1.0 credit)

PREREQUISITE: English Language Arts 20F

In ELA: Literary Focus 30S, students will explore a variety of texts by various writers from different genres and periods. They will experiment with language and forms of expression and examine how language choices affect content and intent. Students will respond personally and critically to texts and develop their language skills to express, inform and persuade. The approach in this course is intensive and academic. Assessments will include student generated essays, journals, poems, reading responses, and projects.

Note: Should space be limited for the Grade 12 course ELA: Literary Focus 40S, preference is given to students who achieved the pre-requisite from Literary Focus 30S.

ESSENTIAL MATHEMATICS 30S (1.0 credit)

PREREQUISITE: Credit in a Grade 10 Mathematics course.

Students will gain mathematical power, increasing their ability to understand issues in our technological society as well as their own lives. Topics include: Geometry, Managing Money, Statistics, Slope, Trigonometry, and Credit and Interest.



Educating the Heart and the Mind

St. Maurice School

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Note: Students seeking to register in Pre-Calculus Mathematics 40S, Chemistry 40S, and/or Physics 40S in their Grade 12 year MUST register in Pre-Calculus 30S and achieve its prerequisite into Pre-Calculus Mathematics 40S.

HISTORY OF CANADA 30F (1.0 credit)

PREREQUISITE: Geographic Issues in the 21st Century 20F

The Grade 11 History of Canada curriculum supports citizenship as a core concept and engages students in historical inquiry. Guided by essential questions, students focus on the history of Canada from precontact times to the present. Through this process students become historically literate and better able to understand the Canada of today. The curriculum also identifies historical literacy skills, including historical inquiry, critical historical thinking and communication. This curriculum is organized around five themes:

1. First Nations, Metis and Inuit Peoples
2. French-English Relations
3. Identity, Diversity and Citizenship
4. Governance and Economics
5. Canada and the World

The five clusters of study are:

1. First Peoples and New France
2. British North America
3. Confederation
4. Becoming a Sovereign Nation
5. Defining Contemporary Canada

LAW 40S (1.0 credit)

PREREQUISITE: None

This course will allow students the opportunity to understand, appreciate, and respect the concept of the rule of law and the operation, benefits, and limitations of the Canadian Legal System with specific emphasis on the impact of the Charter of Rights and Freedoms since its inception in 1982. Through the use of cases, questions, and activities, students will be given the opportunity to develop their legal knowledge, as well as their skills in critical thinking, organization, research, analysis, and decision making. Through interaction with others and sharing of ideas, students will learn to apply the law they have studied to resolve conflict as presented in courtroom cases and in their personal lives. Students will study criminal law, youth justice, civil law and contract law in their various elements and dimensions.



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PHYSICAL EDUCATION / HEALTH 30F (Active Healthy Lifestyles, General) (1.0 credit)

PREREQUISITE: Physical Education / Health 20F

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 engage in active lifestyles into their futures. Students will study topics related to fitness management, 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 40% IN-class component of the course content. Students will be required to develop and implement the remaining 60% 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 portfolio containing elements such as a fitness plan, physical activity log, or journal entries. Students will be graded for completion of the course with a Complete or Incomplete designation.

NOTE: Parents/guardians will be required to review the student's physical activity plan and sign a Parent Declaration and Consent Form acknowledging their approval of the chosen activities and acceptance of the responsibility for risk management, safety, and supervision. Parents/guardians will also be required to verify the entries of the student's physical activity log through a sign-off procedure.

PHYSICS 30S (1.0 credit)

PREREQUISITE: A minimum of 65% in Science 20F, AND a minimum of 65% in Introduction to Applied and Pre-Calculus Mathematics 20S

CO-REQUISITE: Pre-Calculus Mathematics 30S

Physics is the study of the relationships that are observed in the natural world. In this course, these relationships are examined in a variety of modes: visual/physical/conceptual, numeric, graphical and symbolic. The basic concepts and calculations of various branches of physics are introduced to students and are supported by demonstrations and laboratory experimentation.

Topics to be studied: The Nature of Science, Mechanics - Kinematics, Mechanics - Dynamics, Gravitational Fields, Electric Fields, Magnetic Fields, Electromagnetism, Waves, Sound, Models of Light. (Some topics subject to change)

Note: Very good mathematical skills and problem-solving abilities are essential for success in this course. The ability to think abstractly is a great asset when studying physics. A strong background in Introduction to Applied and Pre-Calculus Mathematics 20S and Science 20F is recommended. Physics 30S is required for advancement into Physics 40S.



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PRE-CALCULUS MATHEMATICS 30S (1.0 credit)

PREREQUISITE: A minimum of 60% in Introduction to Applied and Pre-Calculus Mathematics 20S

Grade 11 Pre-Calculus Mathematics 30S is designed for students who intend to study Calculus and related mathematics as part of post-secondary education. It builds upon topics studied in Grade 10 Introduction to Applied and Pre-Calculus Mathematics. The course requires a high level of study of theoretical mathematics with an emphasis on solving equations and problem solving. Topics to be studied include: rational expressions and equations, quadratic equations and functions, radical expressions and equations, systems of non-linear functions, inequalities, absolute value expressions and equations, sequences and series, and analytic geometry with quadratic functions.

Note: Students seeking to register in Pre-Calculus Mathematics 40S, Chemistry 40S and/or Physics 40S in their Grade 12 year MUST register in Pre-Calculus 30S and achieve its prerequisite into Pre-Calculus Mathematics 40S.

Note: Students seeking to register in Calculus 42S (AB) AP® (Advanced Placement®) must achieve a final mark of 85% or better in Pre-Calculus Mathematics 30S

PRINT COMMUNICATIONS 25S (0.5 credit, Term 1)

PREREQUISITE: Applying ICT 1 15G, or credit in a Computer Studies or Keyboarding Course

This course is meant to provide students with the skills and knowledge to plan and create documents for personal and business communications. They will learn to produce printable documents that conform to recognized, real-world standards. They will be taught to produce: business letters, labels and envelopes, meeting agendas, meeting minutes, research papers in a universally accepted style (examples: MLA, APA, Chicago...), resumes and cover letters. They will participate in multi-user document editing and reviewing. They will learn to use language and tone appropriate to the communication and will incorporate elements of good layout when designing documents.

VISUAL ARTS 30S (1.0 credit)

PREREQUISITE: Art 10S, or Art 20S, or Prior Written Permission of Instructor

Students will study the fundamentals of design in more depth than in Grade 9/10 Visual Arts courses. Students will keep a sketch book and do art exercises as well as finished drawings and paintings. Drawing and painting will be the core area of emphasis although students will be able to explore other art forms on an individual basis.

Note for Grade 11 and 12 Visual Arts Courses: The following Art course levels will be combined into the same timetable slot: Art 30S and Art 40S. Should space become an issue, priority will be given to those students eligible for Art 40S then Art 30S. Consult the pre-requisites information sheets in a Grade 11 or 12 Course Descriptions Booklet.



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WORLD OF RELIGIONS: A Canadian Perspective 40S (1.0 credit)

PREREQUISITE: None

Within the World of Religions course, learners explore important aspects of human diversity, and develop greater understanding and awareness of the historical and contemporary significance of religious diversity in Manitoba, Canada, and the world. Intent of this course is to promote awareness, respect, understanding and appreciation for the diversity of religious belief systems and practices, and their roles in society and people's lives. The World of Religions course is considered a Grade 12 credit and can be used as a university entrance course.