**Grade 9**

COMPULSORY:  
**English 10F  
Math 10F  
Science 10F  
Social Studies 10F  
Physical Education 10F**

ELECTIVES:  
**Applying Information Technology I 15F** (0.5 credit)/ **Applying   
Information Technology II 15F** (0.5 credit) (compulsory at CC) - The   
purpose of the course is to reinforce and extend the ICT knowledge, attitudes, and skills acquired by students in the Middle Years. / The purpose of the course is to reinforce and extend the ICT knowledge, attitudes, and skills acquired by students in the first half credit course. The course will further prepare students to use ICT to learn and demonstrate their learning in all Senior High courses.

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**Band 10G -** The emphasis of the program is the performance of various   
musical styles from different historical periods. The improvement of aural, technical, theoretical and musicianship skills is the major component.   
Students are expected to participate in all school and community performances and are encouraged to participate in festivals and tours organized within the year. Evaluation is based on participation, knowledge of the repertoire, theory, aural and technical skills. Pre-requisite: Grade 8 Band. **OR**

**Home Economics 15G** (0.5 credit) / **Industrial Arts 15G** (0.5 credit) -   
Students explore the following topics through lab work, projects, discussion, and self reflection: teen roles in the family, relationship issues, sexual health (contraception, STI’s), personal organization, family meal planning,   
preparation and service, and sewing project planning and construction. / Grade 9 IA will focus on introducing students to basic oxyacetylene welding and cutting operations. Students will study safety procedures and equipment for gas welding and cutting processes, as well as basic plasma cutter operation.

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**French 10G** -This course is a transition course to senior high school French. Emphasis is placed on communication in the second language; students will practice speaking French to express themselves, writing in a variety of ways and for different purposes, as well as listening to and reading in French for comprehension and information. Using plays, projects and games, students will be able to use what they are learning to engage in various topics of conversation in French. Pre-requisite: Grade 8 French. **OR**

**Futures in Business 15G** (0.5 credit) / **Start Your Own Business 25G** (0.5 credit) - This half covers wages and salaries, CPP, EI, income tax deductions from both the employee’s and employer’s perspectives, personal banking and some basic accounting such as income and debt statements and balance sheets. / This half looks at some various types of businesses such as

manufacturing/construction, retail and service businesses. The students will work on projects calculating the expenses, incomes and profits from running various types of businesses.

**Grade 10**

COMPULSORY:  
**English 20F**

**Math**: (One of the following:)  
**Essential Mathematics 20S\*-** This pathway is designed to provide students with the mathematical understandings and skills identified for entry into the majority of trades and for direct entry into the work force. Topics covered include algebra, geometry, measurement, personal finance, and consumer decisions.

**Introduction to Applied and Pre-Calculus Mathematics 20S\* -** This   
pathway is designed for students considering post-secondary studies that require a math pre-requisite. The topics form a foundation for the concepts studied in Grade 11 Applied and Grade 11 Pre-Calculus Mathematics. Topics covered include trigonometry, polynomials, roots & powers, surface area and volume, linear functions, and graphing.

\* Both pathways (3 pathways in Grade 11 & 12) provide students with

mathematical understandings and thinking skills. When choosing a pathway, students should consider their interests, both current and future, as well as their mathematical abilities. Students and parents are encouraged to research the admission requirements for post-secondary programs of study.

**Geography 20F  
Science 20F  
Physical Education 20F**

ELECTIVES:  
  
**Life-Work Planning 20S** (compulsory at CC) **-** This course is   
designed to guide individual students in developing essential skills for use in life and work situations. Students identify and develop personal strengths/weaknesses, skills, attitudes, and life/work goals. Students will create resumes, cover letters, and portfolios to aid with job seeking and volunteer opportunities.

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Band 20G -** Students are expected to participate in all school and   
community performances and are encouraged to participate in festivals and tours organized within the year. Evaluation is based on participation, knowledge of the repertoire, theory, aural and technical skills. **Pre-requisite: Band 10G**

**French 20G** - Everyday communication in French through speaking, listening, reading and writing continues to be the emphasis at this level. New vocabulary and grammatical structures are again practiced and reinforced through the use of stories, conversational activities, videos, games and more.   
**Pre-requisite: French 10G  
Home Economics 20G -** In this course, students explore the following topics through lab work, research projects, discussion, and self-reflection: nutrition/cooking, textiles/sewing, relationships (emotional and sexual health), teen pregnancy and parenting options, family planning and preparation (pregnancy, birth, parenting, budgeting). **Industrial Arts 20G** - Grade 10 Industrial Arts will offer students the   
opportunity to develop advanced welding skills. Shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW) operations will be studied and practiced. Oxyacetylene and plasma cutting processes as well as CNC plasma cutting will be covered. Students will also be introduced to advanced measurement techniques and machining   
operations using metal lathes and milling machines. **No pre-requisite.**  
**Digital Film 25S** (0.5 credit) - The purpose of the course is to provide students with the skills and knowledge to tell stories by combining sound, still images, moving images, text, graphics, and animation into a video product. Students will plan, develop, and produce a video project.  
**2D Animation 35S** (0.5 credit)-The purpose of the course is to provide   
students with the skills and knowledge to create two-dimensional animations.

**Art 20S** - This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will also use the critical analysis process to reflect on and interpret art.  
**Jazz Band 20S** - The purpose of this course is to develop a confidence and skill set for jazz-based instrumental performance. Through performance, students will develop their instrumental technique, listening skills, theory, improvisation, cultural understanding, and music appreciation.  
**Pre-requisite: Band 10**G.

**Grade 11**

COMPULSORY:  
**English 30S**

**Math**: (At least one of the following math courses)

**Essential Mathematics 30S** - This pathway is designed to provide students with the mathematical understandings and skills identified for entry into the majority of trades and for direct entry into the work force. Topics covered include analysis of games and numbers, interest & credit, 3-D geometry, and statistics.

**Applied Mathematics 30S -** This pathway is designed to provide students with the mathematical understandings and skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. The use of technology and the graphing calculator is a focus. Topics include geometry, trigonometry, linear programming, quadratics, statistics, measurement, and proofs & logic.

**Pre-Calculus Mathematics 30S** - This pathway is designed to provide students with the mathematical understandings and skills identified for entry into post-secondary programs that require the study of theoretical calculus and university sciences. Topics include sequences & series, radicals, quadratic equations & functions, inequalities & systems of equations, trigonometry, rational expressions, and reciprocal functions.

**History 30F** (classroom or WebCT)

**Active Healthy Lifestyles 30F** - logging hours and/or **Fitness** - students will go to the town gym to learn how to use the weight equipment in order to follow a strength training program.  They will also learn various forms of aerobic workouts to increase their cardiovascular performance.  

ELECTIVES:  
**Biology 30S** - The first part of the course deals with general biological concepts; the remainder of the course focuses on the study of the human body.  
**Chemistry 30S** - Emphasis is on these topics: atomic structure, chemical bonding, chemical formulas, chemical reactions, energy effects, molarity, kinetic theory of liquids and gases, and organic chemistry.   
**Physics 30S** – The overall emphasis is on the study of motion-specific topics which include kinematics, vectors, projectile motion, laws of motion, gravitation, circular motion, impulse, momentum, and kinetic energy.  
**Band 30S -** Students are expected to participate in all school and community performances and are encouraged to participate in festivals and tours organized within the year. Evaluation is based on participation, knowledge of the repertoire, theory, aural and technical skills.   
**Pre-requisite: Band 20G**.  
**French 30S** - Students continue to develop precision with grammar and to expand their vocabulary. Classes conducted exclusively in French, along with letter-writing, reading French stories, creating skits, and listening to French radio and TV programs all reinforce skills in listening, speaking, writing and reading. Real conversations about everyday topics continue.   
**Pre-requisite: French 20G  
Power Mechanics Technology 30G** - This course introduces students to the systems and technologies common to the automotive and recreational vehicle industry. This course will give students a general overview of typical internal compression engine operation, maintenance, and overhaul operations. Safety procedures, equipment operation, and maintenance for the automotive facility will be examined and practiced. **IA 20G is not a pre-requisite.**  
**Community Service Credit 31G** - Students participate in a community service activity volunteering 110 hours for a cause or organization. Consent forms, a short essay, a log of hours, and regular evaluations are required.  
**Interactive Web 35S** (0.5 credit) - The purpose of this course is to provide students with the skills and knowledge to design, develop, and publish a website to display and gather information.   
**3D Modeling 35S** (0.5 credit) - The purpose of the course is to provide students with the skills and knowledge to use software to create three-dimensional models that represent real objects or illustrate ideas.  
**Agriculture 30S -** This course provides a comprehensive introduction to agriculture in Manitoba, including historical perspectives, as well as present trends and concerns, and examines the physical and climatic features of Manitoba, the resource base, soil management practices, crop varieties, and plant and animal science.   
**Art 30S** - This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will also use the critical analysis process to reflect on and interpret art.  
**Jazz Band 30S** - The purpose of this course is to develop a confidence and skill set for jazz-based instrumental performance.  Through performance, students will develop their instrumental technique, listening skills, theory, improvisation, cultural understanding, and music appreciation.  
**Pre-requisite: Jazz Band or Band 20S**.

**Grade 12**COMPULSORY:  
**English**: (at least one of the following)  
**English Comprehensive Focus 40S** - This course continues the focus on the same 5 General Outcomes and the expanded 56 Specific Outcomes as in Grades 9, 10 and 11. This course provides a balanced program of practical and literary texts and skills.  **English Literary Focus 40S** - This course continues the focus on the same 5 General Outcomes and the expanded 56 Specific Outcomes as in Grades 9, 10 and 11. An emphasis will be placed on essay writing and creative writing through the study of poetry, novels, plays, short stories, and Shakespeare. This specialized course is intended for students with post-secondary educational goals, especially at the university level.  
**English Transactional Focus 40S -**This course continues the focus on the same 5 General Outcomes and the expanded 56 Specific Outcomes as in Grades 9, 10 and 11. ​This course is intended to help students manage the vast array of information with which they are presented daily, and to think critically and independently in order to function as responsible citizens. Students will enhance skills in reading and assessing a wide range of oral, print, and other media texts, and by being able to communicate effectively with others.  
***\*STUDENTS TAKING THEIR FIRST GRADE 12 ELA CREDIT WILL BE REQUIRED TO WRITE THE PROVINCIAL EXAM.***

**Math**: (At least one of the following Math courses)  
**Essential Mathematics 40S -** This pathway is designed to provide   
students with the mathematical understandings and skills identified for entry into the majority of trades and for direct entry into the work force. Topics covered include algebra, geometry, measurement, numbers, statistics and probability. **(PROVINCIAL EXAM)**  
**Applied Mathematics 40S -** This pathway is designed to provide students with the mathematical understandings and skills identified for post-secondary programs that do not require the study of theoretical calculus. The use of technology and the graphing calculator is a focus. Topics include finance, set theory & logic, counting methods, probability, polynomial functions, exponents & logarithms, sinusoidal functions and design and measurement. **(PROVINCIAL EXAM)  
Pre-Calculus Mathematics 40S -** This pathway is designed to provide students with the mathematical understandings and skills identified for entry into post-secondary programs that require the study of theoretical calculus and university sciences. Topics include transformations, the unit circle, trigonometric graphing, trigonometric identities, exponents & logarithmic functions, rational functions, radical functions, polynomial functions, and the binomial theorem. **(PROVINCIAL EXAM)   
Active Healthy Lifestyles 40F**- logging hours and/or **Fitness** - students will go to the town gym to learn how to use the weight equipment in order to follow a strength training program.  They will also learn various forms of aerobic workouts to increase their cardiovascular performance.

ELECTIVES:  
**Applied Technology 40S** - This course is designed to give participants an opportunity to learn and acquire skills in five different fields of technology. These areas include Global Positioning Systems (GPS), Computer Aided Drafting (CAD), Computer Numerically Controlled Machining (CNC), Digital and Film-based Photography and Digital Photo Editing, and Global

Information Systems (GIS). **Band 40S** -Students are expected to participate in all school and community performances and are encouraged to participate in festivals and tours organized within the year. Evaluation is based on participation, knowledge of the repertoire, theory, aural and technical skills.   
**Pre-requisite: Band 30S**.

**Life/Work Transition 40S** - This course provides students with the opportunity to explore potential occupations, and to demonstrate employability skills and specific occupational skills.   
**Biology 40S** - This course deals with the study of human and molecular genetics, DNA, mechanism of inheritances, and biodiversity in animals and plants. **Chemistry 40S** - Emphasis is on the topics of equilibrium, acids, oxidation-reduction, energy enthalpy, and reaction kinetics. **Pre-requisite: Chemistry 30S.  
Physics 40S** - Emphasis is on the fields of waves, light, sound and electricity, fields, forces, series and parallel circuits, magnetic fields and forces, relationship between magnetism and electricity, alternating current, and nuclear medicine. **Law 40S** - This course consists of 4 modules: Module A - Fundamental Law, Module B - Criminal Law, Module C - Civil Law, and Module D -Family Law.  
**Family Studies 40S** - The primary focus of this course is to help teens reflect upon their own lives and from this, strengthen the families they live in now and build strong families for the future. (This is an off-site course.)  
**Psychology 40S** - This course will focus on understanding the major concepts and theories in psychology and may include topics such as sleep and dreams, motivation, stress, and mental disorders.   
**Global Issues 40S** - Students conduct inquiry into the social, political, environmental, and economic impact of contemporary and emerging global issues.

**French 40S** - Students will continue to develop an extensive vocabulary as well as precision with higher-level grammar. Through daily conversation, reading and writing in French, the students continue to develop their communication skills in the French language. French literature, letter writing, conversation, games, videos and projects also enhance the students’ learning *en français*. **Pre-requisite: French 30S  
Jazz Band 40S** - The purpose of this course is to develop a confidence and skill set for jazz-based instrumental performance.  Through performance, students will develop their instrumental technique, listening skills, theory, improvisation, cultural understanding, and music appreciation.   
**Pre-requisite: Jazz Band or Band 30S**.