



Clifford International School Calendar of Programs

Information about Elementary, Middle
School, Secondary, Manitoba Sino-Dual
Program and AP classes

As designated by Manitoba Education and Training

English Version

Updated 2020.12.17

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Elementary Courses (Grade 1-5)

Our international elementary program follows the curriculum developed by Manitoba Education and Training. Students are not divided into classes based on their English or academic level. The school administration teams try to balance our classes equally.

(Example: There is no difference between 5A or 5B)

The courses taught by our homeroom teachers are:

- English Language Arts (11 periods per week)
- Mathematics (6 periods per week)
- Science (4 periods per week)
- Social Studies (4 periods per week including SSP)

In addition, students also attend the following courses taught by specialist teachers:

- Physical Education(3 periods per week)
- Music (2 periods per week)
- Art (2 periods per week)
- Drama (1 period per week)
- Computers (1 period per week)
- Library (1 period per week)
- Mandarin (5 periods per week)

**All students stay in their homeroom groups for all classes except Mandarin, where they are grouped based on their background and abilities with the language. A beginner class is provided for students of all grade levels who are just beginning to learn the language.

****More information about what topics are being taught in each subject area can be found at <http://www.edu.gov.mb.ca/k12/cur/>**

ILC

The ILC (International Language Center) offers support to some students who need extra help with the English Language, either in class, or through small group pull-out sessions. These pull out sessions may focus on reading, writing, phonics, speaking, and listening, depending on the needs of the students. Homeroom teachers designate the students who will attend the ILC (The ILC staff along with the homeroom teacher partner together to decide who needs extra support from the ILC through classroom observations, interviews, and both formal and informal testing.), and when the ILC teacher decides that the student has reached the level required to succeed independently in class, the student may move back to being with the regular homeroom at all times. The ILC also provides one period of week of intensive English during lunch time to those that are truly struggling with English usage, confidence in speaking, or a lack of English exposure.

If your child qualifies for support through the ILC, you will be notified with a note home.

Middle School Courses (Grade 6-8)

Our international Middle School program follows the curriculum developed by Manitoba Education.

We have two sections of each grade in Middle School. Students are NOT divided into classes based on their English or academic level. The school administration teams try to balance our classes equally. (Example: There is no academic difference between 6IP1 or 6IP2)

During the day, students travel with their homeroom classes to courses taught by specialist teachers. The number of classes per week varies by grade level

- English Language Arts (8-10 periods per week)
- Mathematics (5 or 6 periods per week)
- Science (3 or 4 periods per week)
- Social Studies (4 periods per week)
- Physical Education (3 periods per week)
- Music (2 periods per week)
- Grade 6, 7 Visual and/or Performing Arts (2 periods per week)
- Grade 8 Visual and/or Performing Arts (2 periods per week)
- Computers (1 or 2 periods per week)
- Mandarin (4 periods per week) **Mandarin classes are separated by ability level.

What to Consider When Choosing Courses

As a student, you must take the responsibility of choosing courses very seriously. You are encouraged to get all the information you can before making course choices. You should consult with your parents, school counselors and teachers when selecting your courses.

Ask yourself:

- What are my interests?
- What are my abilities?
- What career do I have in mind?
- What courses do I need in order to achieve my career goals?
- What is the rationale for each course I am taking?

How to Decipher Course Codes

Credits

The credit system begins in Grade 9 in all Manitoba High Schools. Most courses offered are one credit each, any exceptions are specified. The minimum credits required for a Manitoba High School Diploma is 30.

Courses Numbering

The numbering system is made up of three characters, the first and second being numerals and the third a letter. The first character represents the grade level, the second the origin of development, and the third the level of difficulty or specialization.

First Character

- 1 = Grade 9
- 2 = Grade 10
- 3 = Grade 11
- 4 = Grade 12

Second Character

- 0 – Developed/approved by Manitoba Education and Training for 1 or more credits
- 5 – Developed/approved by Manitoba Education and Training for ½ credit
- 1 – Developed by the School or Division including Self-Initiated Projects for ½ or more credits
- 2 – Advanced placement courses or private music options.

Third Character

- F- *Foundation*: educational experiences, which are broadly based and appropriate to all students.
- G- *General*: general educational experience for all students.
- S- *Specialized*: learning experiences/skills leading to further studies at the post-secondary education level.
- M- *Modified*: courses for which curriculum has been modified to take into account the capabilities of students with special needs.

Examples:

Social Studies 10G – Grade 9, general course, developed by Manitoba Education and Training for 1 credit.

Pre-Calculus 20S – Grade 10, specialized course developed by Manitoba Education and Training, Citizenship and Youth, leading to further studies at the post-secondary education level.

Timetable Changes

Timetable changes may be made for the following reasons:

- cancellation of a course due to insufficient enrollment;
- student failure in a student's previous course;
- timetable conflict;
- addition of a course to meet school requirements for graduation;
- addition of a course for post-secondary requirements;
- an imbalance of students registered in a certain course;
- office timetable error

Transferring or Changing Classes:

- Timetable changes must be done through the guidance office
- Signed and approved by parents
- Approved by new and previous teacher
- Application to change classes must be in before the end of Term 1 (end of January)

If a student wishes to withdraw from a class he/she must:

- Remain in the class until all documentation is complete and approved
- Full disclosure policy applies to Gr. 11-12 students
- Students must maintain the minimum course requirements for the year

Full Disclosure Policy:

If a student withdraws from a Gr. 11 or Gr. 12 course **WITHIN five instructional days following the issue of a mark statement after the midterm exam**, the withdrawal is **NOT** recorded on the Manitoba student transcript.

If a student withdraws from a course **AFTER five instructional days following the issue of a mark statement after the midterm exam**, the withdrawal **IS** recorded on the Manitoba student transcript. *It will be recorded by a 'W' in the credit column. The student's percentage grade at the time of the withdrawal is also recorded.*

Graduation Requirements

All students must have a **minimum of 30 Credits to graduate**. They are as follows:

Grade 9- 6 compulsory credits	Grade 10- 6 compulsory credits
<ul style="list-style-type: none"> ● English Language Arts 10F ● Math 10F ● Physical Education/Health 10F ● Science 10F ● Canada in the Contemporary World 10F ● Mandarin 10G 	<ul style="list-style-type: none"> ● English Language Arts 20F ● Essential Math 20S OR Introduction to Applied and Pre-Calculus Mathematics 20S ● Physical Education/Health 20F ● Science 20F ● Geographic Issues of the 21st Century 20F ● Mandarin 20G* <p style="text-align: right; font-size: small;"><i>* 10C students are not required to take Mandarin</i></p>
Grade 11- 6 compulsory credits (students must take a minimum of 8 courses per year)	Grade 12- 4 or 5 compulsory credits (students must take a minimum of 7 courses per year)
<ul style="list-style-type: none"> ● ELA: Comprehensive Focus 30S ● Applied Math 30S OR Essential Math 30S OR Pre-Calculus 30S OR Grade 11/12 Combined Pre-Calculus Math ● Physical Education/Health 30F ● History of Canada 30F* ● Biology 30S ● AP Chinese Language and Culture OR Mandarin 30S <p style="font-size: small;"><i>*History of Canada will be taken in Grade 12 if Grade 11/12 Combined Pre-Calculus Math is chosen.</i></p>	<ul style="list-style-type: none"> ● ELA: Comprehensive Focus 40S AND ELA: Transactional Focus 40S ● Applied Math 40S OR Essential Math 40S OR Pre-Calculus 40S ● Physical Education/Health 40F ● Global Issues 40S <p style="text-align: right; font-size: small;"><i>*Manitoba students must take Global Issues</i></p>

Elective Courses- MINIMUM 8-9 credits must be chosen from the following subject areas (including, but not limited to) throughout Grades 9-12

- Mathematics(For example: AP Calculus)
- Sciences(Biology, Chemistry, Physics)
- Social Studies(Law, Global Issues, Psychology, Business, Economics, etc)
- The Arts: Visual Art, Music, Drama
- Life/Work Exploration
- Computer Technology (Drafting Design Technology, 3D Modeling, Animation 2D, etc)

Things to Note:

- Courses offered may be subject to change from year to year, depending on instructors available and timetabling options. This document is designed to better help you educate yourself or your child about the options that are available. Checking with the guidance counsellor will be able to give you the most up to date information about the courses that are being offered in any given year.
- All subjects are taught in English, except for the Mandarin course
- Credit cannot be held concurrently for the same course with different course designations
- Non-Manitoba courses from other countries/schools may be evaluated and accepted by the school principal for credit to meet Manitoba high school graduation requirements
- In special circumstances and in discussion with parents, a school principal may approve the substitution of a maximum of two optional credits for two compulsory credits. All substitution of credits must be reported to Manitoba Student Records.
- Students following Advanced Placement (AP) or International Baccalaureate (IB) programs must meet the Manitoba graduation requirements, including obtaining credits in 40S English language arts, and mathematics, and must write the provincial tests associated with these courses.
- Students should ensure that they meet the entrance requirements of the post-secondary education (college or university), training or work situation they intend to pursue.

Secondary Course Descriptions

Grade 9IP

****Students must take English Language Arts 10F, Mathematics 10F, PE/Health 10F, Science 10F, Canada in the Contemporary World 10F, and Mandarin 10G**

English Language Arts	1 Credit	1	10F
<p>The grade 9 English Language Arts course is designed to engage students in the fundamentals of English language including systematic language elements, reading, oral and written communication, and responding to literary and transactional texts. Students will engage in and respond to a variety of texts that include short stories, novels, plays, poetry, articles, media texts, and others. Students will learn to be reflective in their own learning while developing their creative, academic, analytical, and critical writing and thinking skills.Prerequisite: None</p>			

Mathematics	1 Credit	80	10F
<p>The focus of this math course continues to develop and expand the skills such as: communication, reasoning, estimation and mental mathematics, visualization, connections, technology and problem solving. The main topics studied are:</p> <p><i>Numbers</i></p> <ul style="list-style-type: none"> • rational numbers, square roots, powers, laws of exponents and order of operations <p><i>Shape & Space</i></p> <ul style="list-style-type: none"> • circle properties, properties and relations of 2D and 3D objects and shapes, position and motion of objects and shapes <p><i>Statistics & Probability</i></p> <ul style="list-style-type: none"> • data gathering, analysis & drawing conclusions from experiments, comparing a variety of data gathering techniques, experimental & theoretical probabilities, and the role of probability today <p><i>Patterns & Relations</i></p> <ul style="list-style-type: none"> • solving equations & inequalities, algebraic expressions (polynomials), graphing, analyzing, interpolating, extrapolating linear relations. <p>Prerequisite: None</p>			

Physical Education /Health Education	1 Credit	169	10F
<p>Physical fitness, sports fundamentals and teamwork are stressed through exposure to a wide variety of sports such as volleyball, badminton, track & field, soccer, ultimate frisbee and floor hockey among other sports. The health component covers topics such as social/emotional/physical well-being, nutrition, substance use and abuse, human sexuality, stress management for teens and developing healthy relationships.</p> <p>Prerequisite: None</p>			

Science	1 Credit	120	10F
<p>There will be an emphasis in this course on developing basic processes in science such as measuring, inferring, classifying, predicting, organizing data, and problem solving. Topics include reproduction and heredity, introduction to static and current electricity, introduction to elements and Periodic Table and some basic astronomy concepts.</p> <p>Prerequisite: None</p>			

Canada in the Contemporary World	1 Credit	101	10F
<p>This course is designed to help students gain a greater understanding of what it means to be a responsible citizen within our contemporary Canadian society. Foundational information will be presented and explored as to how it relates to the evolution of our multicultural society, our country's physical geography, government, rights and freedoms, and system of law. Special emphasis will be placed on integrating relevant current events that arise in order to help students see the value of becoming an involved, compassionate and knowledgeable global citizen.</p> <p>Prerequisite: None</p>			

Chinese(Mandarin): 4 Year Programming	1 Credit	1015	10G
<p>Students are split up into different Chinese classrooms based on their level and background. For the students of beginner levels of language and no Chinese background, the emphasis in class is on oral communication and very basic writing skills. For the intermediate students, this course is designed to further develop oral and written skills: listening, speaking, reading and writing and also basic grammatical concepts. For the students of higher ability levels and Chinese background, they will be expected to read various samples of Mandarin novels, poetry and news sources. They will be learn about classic Chinese literature as well as traditional Chinese culture.</p> <p>Prerequisite: None</p>			

Grade 9 Elective Courses

Applying Info and Communication Tech 1 & 2	0.5 Credit	217/218	15F
<p>The purpose of the course is to reinforce and extend the information and technology knowledge, attitudes and skills acquired by students in the Middle Years. This course will further prepare students to use information and communication technology (ICT) to learn and demonstrate their learning in all senior courses. Each course is worth a half credit, when combined, create a full year course.</p> <p>Prerequisite: None</p>			

Life/Work Exploration	0.5 Credit	97	15S
<p>Life/Work Exploration will help students acquire and apply knowledge and skills to make appropriate decisions for life, work, and the essential post-secondary education/training that is required in today's economy. Throughout the course students will be provided with opportunities to explore potential occupations, and to demonstrate employability skills, essential skills, and specific occupational skills. We will also look at components which emphasize the knowledge, skills, and behaviour necessary for individuals to make informed decisions, solve problems and maximize their potential as individuals and as contributing members of their families and their community.</p> <p>Prerequisite: None</p>			

Drama 1A	1 Credit	239	10S
<p>In this course, students engage in dramatic language and performance skills that help foster creative expression in a variety of forms. Students will experience various dramatic forms and styles including, but not limited to: improvisation, tableaux, monologues, pantomime, collaborative scene performances, and reader's theater. This course focuses on the skills and acquisitions involved in dramatic improvisation, performance, and character analysis. Participation and a strong effort in each class is essential to student success and individual transformative learning.</p> <p>Prerequisite: None</p>			

Business Innovation	1 Credit	0315	10S
<p>Business Innovations is an introductory course that allows students to sample the various strands within the applied commerce education program. The course offers students the opportunity to explore commerce-related topics, such as economics, entrepreneurship, business, marketing, technology, and finance. Throughout the course, students will apply the concepts and strategies they learn to a variety of creative business projects or simulations. It is the suggested introduction to all of the other courses offered in the applied commerce education subject area.</p> <p>Prerequisite: None</p>			

Music 1A(Band)	1 Credit	258	10S
<p>This course is designed to assist the student to develop comprehensive musicianship and aural ability through performance in a band. Students will participate in a number of performances throughout the year to expand performance skills. All band students will be expected to follow a regimen of practice to improve ability and performance. Band can be taken as a full or a half year course.</p> <p>Pre-requisites: Students need to be familiar with the instrument they are choosing to play.</p>			

Music 2A(Choir)	1 Credit	260	10S
<p>A performance-based course that explores choral music from a wide variety of cultures and time periods through study and performance. The course is designed for students to apply musical skills as they continue to experience music as a musical ensemble. The core curriculum emphasizes the basics of vocal technique, sight-reading, music appreciation, music theory, and music history. Students in Choir are expected to participate in one concert each semester as a major part of their grade. Choir can be taken as a full or a half year course.</p> <p>Prerequisite: None</p>			

Visual Arts 1A	1 Credit	274	10S
<p>This course is open to all students with or without a previous background in art. This course is designed as an introduction for those students who wish to develop their artistic skills. Students will study the elements and principles of art and design as well as develop skills in drawing, painting, mixed media, sculpture and printmaking. Students will be introduced to various aspects of art history and will be given opportunity to express their original and creative ideas through their artwork as well. An Art Show will happen every year, and each art student will contribute art work to it.</p> <p>Prerequisite: None</p>			

Secondary Course Descriptions

Grade 10IP

*****Students must take English Language Arts 20F, Essential Math 20F OR Introduction to Applied and Pre-Calculus Math 20S, PE/Health 20F, Science 20F, Geographic Issues of the 21st Century 20F, and Mandarin 20G***

English Language Arts	1 Credit	0001	20F
<p>This course consists of a detailed study and literary analysis of novels, short stories, plays, poems, articles, essays and films in addition to specific units on study skills, research skills, public speaking and drama. The goal of the course is to define all the basic skills with a special emphasis on reading and writing. Students will learn to write more extensively for a variety of purposes and audiences, with a special focus on thesis development and essay writing. Study of the media is also incorporated into the program.</p> <p>Prerequisite: English 10F</p>			

Essential Mathematics	1 Credit	3000	20S
<p>This course is intended for students whose post-secondary plans do 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. Primary units include Analysis of games and numbers, Personal Finance, Measurement, 2-D Geometry, Trigonometry, Consumer Decisions, Transformations and Angle Construction. Students with a mark lower than 65% in Grade 9 Math are encouraged to discuss taking Essential Math in Grade 10 with the Math Department.</p> <p>Prerequisite: Math 10F</p>			

OR

Intro to Applied & Pre-Calculus Math	1 Credit	3905	20S
<p>Introduction to Applied and Pre-calculus Mathematics 20S is intended for students considering post-secondary studies that require a math prerequisite. 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. Components of the curriculum are both context driven and algebraic in nature. Students will engage in experiments or activities that include the use of technology, problem solving, mental mathematics, and theoretical mathematics to promote the development of mathematical skills. These experiences will provide opportunities for students to make connections between symbolic mathematical ideas and the world around us.</p> <p>Prerequisite: 75% or higher in Math 10F or permission from the Math Department</p>			

Physical Education/ Health Education	1 Credit	169	20F
<p>This course offers a variety of activities including; competitive, cooperative, team, individual and lifetime sports activities. Included is Health II which involves topics such as nutrition, substance use and abuse and human sexuality. In addition to all the curriculum topics offered, a philosophical view of the principles of fair play and sportsmanship are integrated into all lessons. Students will also discover ways to develop healthy lifestyle practices, promote active living and maintain healthy relationships.</p> <p>Prerequisite: None</p>			

Science	1 Credit	120	20F
<p>The course continues the goals of 9 Science. Topics are centered around change as it applies to ecosystems, chemical changes, and motion with a special emphasis on automobile safety and the changing nature of weather. Grade 9 and 10 Science are significant courses in introducing fundamental concepts that will be required in Grade 11 and 12 science courses.</p> <p>Prerequisite: Science 10F</p>			

Geographic Issues of the 21st Century	1 Credit	1180	20F
<p>Students will explore the nature of geography and develop relevant skills to help increase their ability to think globally and geographically. Students will be challenged to learn about and investigate a variety of evolving geographic issues including how food is produced and distributed, natural resource ownership and development, industry and trade (as it relates to what is happening in our urban and rural spaces) and, arising environmental-impact concerns.</p> <p>Prerequisite: Social Studies 10G</p>			

Chinese(Mandarin): 4 Year Programming	1 Credit	1015	20G
<p>Students are split up into different Chinese classrooms based on their level and background. For the students of beginner levels of language and no Chinese background , the emphasis in class is on oral communication and very basic writing skills. For the intermediate students, this course is designed to further develop oral and written skills: listening, speaking, reading and writing and also basic grammatical concepts. For the students of higher ability levels and Chinese background, they will be expected to read various samples of Mandarin novels, poetry and news sources. They will be learn about classic Chinese literature as well as traditional Chinese culture.</p> <p>Prerequisite: Placed by Mandarin Department; for IP students</p>			

Chinese(Mandarin): 3 Year Programming	1 Credit	1016	20G
<p>Students are split up into different Chinese classrooms based on their level and background. For the students of beginner levels of language and no Chinese background, the emphasis in class is on oral communication and very basic writing skills. For the intermediate students, this course is designed to further develop oral and written skills: listening, speaking, reading and writing and also basic grammatical concepts. For the students of higher ability levels and Chinese background, they will be expected to read various samples of Mandarin novels, poetry and news sources. They will be learn about classic Chinese literature as well as traditional Chinese culture.</p> <p>Prerequisite: Placed by Mandarin Department; for C students</p>			

Grade 10 Elective Courses

American History	1 Credit	0481	20G
<p>The aim of the course is to investigate the history of the United States from 1600-2000. As our close and powerful neighbour, the United States has an incredible impact on Canada. This course will give students some insight into the historical development of the American nation and how it became the dominant country in North America and a power in the world. This course is open to all grade levels.</p> <p>Prerequisite: Must have 80% of higher in both ELA and Social Studies in Grade 9.</p> <p>*May not be offered every year</p>			

Drama 1A	1 Credit	239	20S
<p>Drama will enable students to develop self-confidence and communication/presentation skills at the same time as building on the basics of stage acting techniques presented in grade nine. The course also examines and explores various roles involved in the production of a play, such as make-up artists, set and costume designers, stage-managers, playwrights, and directors.</p> <p>Prerequisite: None</p>			

Life/Work Planning	1 Credit	98	20S
<p>This course provides students with an overview of career development skills designed to help them explore different career paths in both professional and trade industries. All students will be encouraged to explore and assess their strengths, needs and interests and to investigate a broad range of opportunities as they pursue their educational pathways. Focus will be placed on self-assessment, including unique talents/interests/ skills and building positive self-esteem. Through a variety of learning techniques including guest speakers, web based research and hands-on activities students will learn how to identify, investigate and pursue goals in education, work and community activity in order to prepare for the 21st century workforce.</p> <p>Prerequisite: None</p>			

Entrepreneurship	1 Credit	0319	20S
<p>This course is designed to introduce and develop students' business sense. The course is intended for students who are considering going into commerce or who are interested in possibly starting their own business. Some topics include developing a business idea, creating a detailed business plan, determining revenue and expenses, staffing, assessing viability, selecting a target market, discussing business ethics, recognizing competition, calculating risks, and determining appropriate means of marketing. As part of their evaluation, students will be required to start their own business. For this, an idea will be generated and put in place as the students will pursue this venture for the duration of the semester. This must be taken into consideration when registering for this course.</p> <p>Prerequisite: None</p>			

Music 1A(Band)	1 Credit	258	20S
<p>This course is designed to assist the student to develop comprehensive musicianship and aural ability through performance in a band. Students will participate in a number of performances throughout the year to expand performance skills. All band students will be expected to follow a regimen of practice to improve ability and performance. Band can be taken as a full year or half a year course.</p> <p>Prerequisite: Students need to be familiar with the instrument they are going to play.</p>			

Music 2A(Choir)	1 Credit	260	20S
<p>A performance-based course that explores choral music from a wide variety of cultures and time periods through study and performance. The course is designed for students to apply musical skills as they continue to experience music as a musical ensemble. The core curriculum emphasizes the basics of vocal technique, sight-reading, music appreciation, music theory, and music history. Students in Choir are expected to participate in one concert each semester as a major part of their grade. Choir can be taken as a full or a half a year course.</p> <p>Prerequisite: None</p>			

Visual Arts 1A	1 Credit	274	20S
<p>This course is open to all students with or without a previous background in art. This course is designed to develop student's artistic abilities, for pleasure or to prepare for application to a fine art post-secondary institution. Students will study the elements and principles of art and design as well as develop skills in drawing, painting, mixed media, sculpture and printmaking. Students will be introduced to various aspects of art history and will be given opportunity to express their original and creative ideas through their artwork as well. An Art Show will happen every year, and each art student will contribute art work to it.</p> <p>Prerequisite: None</p>			

Computer Science	1 Credit	0280	20S
<p>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.</p> <p>Prerequisite: None</p>			

Secondary Course Descriptions

Grade 11IP

*****Students must take ELA: Comprehensive Focus 30S, Applied Math 30S OR Pre-Calculus 30S OR Combined Grade 11/12 Pre-Calculus, PE/Health 30F, History of Canada 30F, and Mandarin 30S OR AP Chinese Language and Culture***

ELA: Comprehension Focus	1 Credit	92	30S
<p>Students in this course will develop a wide range of literacy skills. The Comprehensive Focus devotes approximately equal time to transactional and literary texts. Students will study a wide range of literature including articles, poetry, memoirs, biographies, one Shakespearean play, essays, short stories and novels. Media and films will also be examined. A variety of writing tasks will be performed, including essays, biographies and the creation of an ongoing writing portfolio. Class activities will include formal and informal discussions, visual and written projects, presentations, group and individual work and scripted and improvisational drama. Students will be building their literacy skills and will be encouraged to think critically and independently.</p> <p>Prerequisite: English 20F</p>			

Applied Mathematics	1 Credit	3903	30S
<p>Applied Mathematics (30S) is intended for students considering post-secondary studies who do not require a study of theoretical calculus. It is context-driven and promotes the learning of numerical and geometrical problem-solving techniques as they relate to the world around us. Students will use a graphing calculator, mathematical exploration, modelling, and problem solving. Topics include: proofs, quadratic functions, trigonometry, scale, statistics, and systems of inequalities. The cost of an appropriate graphing calculator is approximately \$100.00. Students may also use a graphing calculator app if they own a tablet device or smart phone.</p> <p>Prerequisite: Introduction to Pre-Calculus & Applied Mathematics 20S (not Essential Math 20S)</p>			

OR

Essential Mathematics	1 Credit	3000	30S
<p>This course continues the emphasis from the Essential Math 20S course. Analysis of Problems, Games, and Numbers continue as units that are embedded throughout the course. Additional units of investigation include: Interest and Credit, Statistics, 3D Geometry, Managing Money, Relations and Patterns, Design Modelling, and Trigonometry.</p> <p>Prerequisite: Any 20S Mathematics</p>			

OR

Pre-Calculus Mathematics	1 Credit	3939	30S
<p>11 Pre-Calculus Mathematics is designed for students who intend to study calculus as part of their postsecondary education or pursue a degree in science, engineering or another field that requires calculus. Students will study high-level, theoretical mathematics with an emphasis on problem solving and mental mathematics. Topics include: quadratic functions, radicals, rationals, sequences, trigonometry, inequalities, and systems. A graphing calculator is recommended.</p> <p>Prerequisite: 75% in Introduction to Pre-Calculus and Applied Math 20S or special permission</p>			

OR

Grade 11/12 Combined Pre-Calculus	2 Credit	3939	30S/40S
<p>Grade 11/12 Combined Pre-Calculus is designed for students who intend to study calculus as part of their postsecondary education or pursue a degree in science, engineering or another field that requires calculus. Students will study high-level, theoretical mathematics with an emphasis on problem solving and mental mathematics. Topics include: quadratic functions, radicals, rationals, sequences, trigonometry, inequalities, and systems. A graphing calculator is recommended. Both Grade 11 and 12 courses are taught in one year, and is a very intensive program. Term 1 will be the Grade 11 Pre-Cal, and Term 2 will be the Grade 12 course.</p> <p>Prerequisite: 75% in Introduction to Pre-Calculus and Applied Math 20S or special permission</p>			

Physical Education /Health Education	1 Credit	169	30F
<p>This compulsory full credit course is designed to help students begin to take ownership of their personal physical activity levels and physical fitness development. Students are encouraged to discover physical activities suited to their personal interests, which will promote an active healthy lifestyle. This Grade 11 course will include core curriculum topics related to: Fitness Management, Mental/Emotional Health, Substance Use and Abuse Prevention and the Social Impact of Sport. This course also includes a Physical Activity Practicum. Seventy-five percent of the course will be teacher led activities while the remaining twenty-five percent will be physical activity involvement outside the school. The student will be required to develop and implement a physical activity plan, which will include steps to developing their personal fitness and risk management associated with the physical activity practicum.</p> <p>Prerequisite: None</p>			

History of Canada	1 Credit	105	30F
<p>Students in this course will study the social, political and economic history of Canada as well as explore current issues in Canadian History. Students will also learn the role of the West in the development of Canada.</p> <p>Prerequisite: None</p>			

Chinese(Mandarin): 4 Year Programming	1 Credit	1015	30S
<p>**For IP students only</p> <p>Students are split up into different Chinese classrooms based on their level and background. For the students of beginner levels of language and no Chinese background, the emphasis in class is on oral communication and very basic writing skills. For the intermediate students, this course is designed to further develop oral and written skills: listening, speaking, reading and writing and also basic grammatical concepts. For the students of higher ability levels and Chinese background, they will be expected to read various samples of Mandarin novels, poetry and news sources. They will be learn about classic Chinese literature as well as traditional Chinese culture.</p> <p>Prerequisite: Placed by Mandarin Department; for IP students</p>			

OR

Chinese(Mandarin): 3 Year Programming	1 Credit	1016	30S
<p>**For C students only</p> <p>Students are split up into different Chinese classrooms based on their level and background. For the students of beginner levels of language and no Chinese background, the emphasis in class is on oral communication and very basic writing skills. For the intermediate students, this course is designed to further develop oral and written skills: listening, speaking, reading and writing and also basic grammatical concepts. For the students of higher ability levels and Chinese background, they will be expected to read various samples of Mandarin novels, poetry and news sources. They will be learn about classic Chinese literature as well as traditional Chinese culture.</p> <p>Prerequisite: Placed by Mandarin Department; for C students</p>			

OR

AP Chinese Language and Culture	1 Credit	297	42S
<p>Develop your Chinese language proficiency through the exploration of a variety of interdisciplinary themes that tie closely to Chinese culture.</p> <p>In this course, you will use authentic Chinese materials and sources to develop your language skills in multiple modes of communication, including two-way interactions in both writing and speaking; interpretation of audio, audiovisual, and print materials; and oral and written presentation of information and ideas.</p> <p>Prerequisite: None</p>			

Biology	1 Credit	124	30S
<p>The Biology 30S course encompasses on one hand an introduction to the life sciences and on the other, an overview of human anatomy and physiology. The first part of the course includes the study of biological characteristics, a presentation of cell theory, and an introduction to biochemistry. The bulk of the course entails a relatively detailed study of the human body. The human systems are examined from an anatomical, physiological and pathological viewpoint.</p> <p>Prerequisite: Science 20F</p>			

Grade 11 Elective Courses

Chemistry	1 Credit	122	30S
<p>Because Chemistry is a requirement for further study in a variety of fields, the course will emphasize topics required in 12 Chemistry as well as requirements for post-secondary education. Students will examine qualitative and quantitative relationships in chemistry. The units covered are: Characteristic Properties of Matter, Quantitative Analysis of Matter and Chemical Reactions, Solubility, Acids and Bases, and Organic Chemistry. Students will develop an awareness of the effects of science on society.</p> <p>Prerequisite: Concurrent enrolment in Pre-Calculus Math or Applied Math. Must have passed Science 20F and passed Introduction to Pre-Calculus and Applied Math 20S at 75% or higher.</p>			

Computer Science	1 Credit	0280	30S
<p>This course is a second-level course in the science of software engineering, which builds on basic programming concepts. Many of the projects explored in this course replicate or have an effect on real-life scenarios, giving the class the opportunity to discuss the ethical impact of computers on our everyday lives.</p> <p>Prerequisite: None</p>			

Drafting Design Technology	1 Credit	7953	30S
<p>The emphasis of this course is on students' learning to communicate technical ideas, solve problems and manage information effectively. Students will learn the proper use of today's technology for design and production of technical documents. More importantly, students will learn skills for personal effectiveness and growth as it evolves throughout the duration of this course.</p> <p>Prerequisite: None</p>			

Entrepreneurship	1 Credit	0319	20S
<p>This course is designed to introduce and develop students' business sense. The course is intended for students who are considering going into commerce or who are interested in possibly starting their own business. Some topics include developing a business idea, creating a detailed business plan, determining revenue and expenses, staffing, assessing viability, selecting a target market, discussing business ethics, recognizing competition, calculating risks, and determining appropriate means of marketing. As part of their evaluation, students will be required to start their own business. For this, an idea will be generated and put in place as the students will pursue this venture for the duration of the semester. This must be taken into consideration when registering for this course.</p> <p>Prerequisite: None</p>			

Music 1A(Band)	1 Credit	258	30S
<p>This course is designed to assist the student to develop comprehensive musicianship and aural ability through performance in a band. Students will participate in a number of performances throughout the year to expand performance skills. All band students will be expected to follow a regimen of practice to improve ability and performance. Band can be taken as a full year or half a year course.</p> <p>Prerequisite: Music 10S or 20S</p>			

Music 2A(Choir)	1 Credit	260	30S
<p>This performance-based course is designed for students to continue developing mastery of solfege, major and minor scales, and 4 part harmonies. Students will convey musical interpretation with the use of dynamics and phrasing, while incorporating facial expression and movement for refined presentation. Students understand how a musical composition is structured through listening and analysis. Students will be able to aurally and visually identify repetition in musical scores. Students will continue to develop an understanding and appreciation of the differences in music from other cultures and the connections music brings to people, places and time. The topics in this class will provide a strong basis for the continuation of their music skills as the high school age child continues on their path to becoming a life-long participant of music. The course can be taken as a full or a half year course.</p> <p>Prerequisite: None</p>			

Physics	1 Credit	123	30S
<p>This course develops an understanding of the basic principles and concepts of physics. This course includes an introduction to physics, mechanics (motion, force, momentum), fields (electric, gravitational, magnetic), waves (nature of waves, sound and light). The focus in the course will be on science inquiry, problem solving, the nature of science and science related skills and content.</p> <p>Prerequisite: Science 20S at 75% level. 75% in Introduction to Pre-Calculus OR Applied Math 20S</p>			

Visual Arts	1 Credit	274	30S
<p>This course is open to all students with or without a previous background in art. This course is designed to develop student's artistic abilities, for pleasure or to prepare for application to a fine art post-secondary institution. Students will study the elements and principles of art and design as well as develop skills in drawing, painting, mixed media, sculpture and printmaking. Students will be introduced to various aspects of art history and will be given opportunity to express their original and creative ideas through their artwork as well. An Art Show will happen every year, and each art student will contribute art work to it.</p> <p>Prerequisite: Visual Arts 10 or with special permission</p>			

Marketing and Digital Commerce	1 Credit	0314	30S
<p>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.</p> <p>Prerequisite: None</p>			

Secondary Course Descriptions

Grade 12 (IP and C)

***By the time students are in grade 12 any Manitoba Sino-Dual Program students have completed any components required by the bilingual school. They become full time students at the international program and are fully integrated with IP students.*

****Students must take ELA: Comprehensive Focus 40S AND ELA: Transactional Focus 40S, Applied Math 40S OR Essential Math 40S OR Pre-calculus 40S, PE/Health 40F, and Global Issues 40S(C students only).**

****Please note: ELA Comprehensive, ELA Transactional, Applied Math, Essential Math, and Pre-calculus each have a required provincial exam which is created by the Manitoba government.**

ELA: Comprehensive Focus	1 Credit	92	40S
<p>The Comprehensive Focus of Language Arts for Grade 12 prepares students to meet present and ever changing demands on their literacy. The goal of the course is to create a balance of student experience between the pragmatic (useful) and the aesthetic (beautiful) types of language. Through reading, writing, speaking, listening, viewing, and representing, students (both independently and collaboratively) will respond critically and personally to various texts and media using both pragmatic and aesthetic language. Students will learn to shape their communication for a specific audience, express themselves clearly for intended effect, and select from a wide range of stances, voices, diction, and forms appropriate for their purpose.</p> <p>Prerequisite: One English 30S</p>			

AND

ELA: Transactional Focus	1 Credit	94	40S
<p>In the Transactional Focus, students develop and refine a range of knowledge, skills and strategies that help them function effectively in various communities. The Transactional Focus emphasizes the pragmatic/practical uses of language: language that informs, directs, plans, persuades, analyzes, argues, and explains. Students engage with and compose texts primarily for pragmatic purposes: to gain information or discern another point of view, to compare and weigh ideas, and to conduct daily transactions. The Transactional Focus addresses a variety of informal and formal uses of language, ranging from informal conversations to formal presentations; from discussions to formal interview; from note taking, data gathering, and representation to illustrated reports. Through a wide range of projects and learning experiences, students learn to use and interpret a variety of oral, print, and other media texts, to manage data and information efficiently and to plan and work collaboratively.</p> <p>Prerequisite: One English 30S</p>			

Applied Mathematics	1 Credit	3903	40S
<p>Grade 12 Applied Mathematics (40S) is intended for students considering post-secondary studies that do not require a study of theoretical calculus. It is context-driven and promotes the learning of numerical and geometrical problem-solving techniques as they relate to the world around us. Technology is an integral part of Applied Mathematics. Students will use the graphing calculator for mathematical exploration, modelling, and problem solving. The Grade 12 Applied Mathematics course includes the following topics: Financial Mathematics, Logical Reasoning, Probability, Relations and Functions, and Design and Measurement. Cost of an appropriate graphing calculator is approximately \$100.00. Students are expected to use a graphing calculator throughout the course.</p> <p>Prerequisite: Applied or Pre-Calculus Mathematics 30S</p>			

OR

Essential Mathematics	1 Credit	3000	40S
<p>Essential Mathematics 40S is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields. Topics include: Analysis of Games and Numbers, Vehicle Finance, Statistics, Precision Measurement, Career Life, Home Finance, Geometry and Trigonometry, Business Finance and Probability.</p> <p>Prerequisite: Any Grade 11 Mathematics course</p>			

OR

Pre-Calculus Mathematics	1 Credit	3939	40S
<p>Pre-Calculus Mathematics 40S is designed for students who intend to study calculus and related mathematics as part of their post-secondary education, or pursue a degree in science. The course is a high-level study of theoretical mathematics with an emphasis on problem solving and mental mathematics. The use of a graphing calculator is recommended. Topics include: circular functions, transformations, trigonometric identities, exponents and logarithms, permutations and combinations, binomial theorem. A graphing calculator is recommended. Students may also use a graphing calculator app if they own a tablet device.</p> <p>Prerequisite: Recommended 75% or above in Pre-Calculus Math 30S</p>			

Physical Education/ Health Education	1 Credit	169	40S
<p>These compulsory full-credit courses are 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. It will focus on Fitness Management, Nutrition, Personal and Social Development and Healthy Relationships. Students will learn to make informed decisions for healthy living as well as behavior to manage risks and prevent injuries. This course will help students develop self-understanding and sportsmanship skills such as fair play and cooperation. These topics will make up the core 75% in-class component of the course content. Students will be required to develop and implement the remaining 25% of the course on their own time in a personal physical activity plan as part of the physical activity practicum.</p> <p>Prerequisite: None</p>			

Global Issues: Citizenship & Sustainability	1 Credit	1128	40S
<p>This course is a study of global issues in the contemporary world. Students will learn about ideologies, international politics and institutions such as the United Nations, NATO, and the World Bank. The course will also include the study of global economic disparities related to population, poverty, food security, environmental disasters, health care and education with special attention to the plight of refugees and displaced persons. The final part of the course requires each student to complete a research project on a conflict, taking place in the world today, such as in the Democratic Republic of Congo, Sudan, Somalia, Iraq, and/or Afghanistan.</p> <p>Prerequisite: English 30S * Compulsory credit for Manitoba (C) Students</p>			

Grade 12 Elective Courses

Biology	1 Credit	124	40S
<p>Biology 40S allows students to explore content and form opinions on ethical and social issues in the areas of genetics, biodiversity and ecology. The Genetics unit will present basic principles of genetics and describe the molecular basis for genetics. One component of this unit will be to consider bioethics as it applies to genetics and reproduction. The Biodiversity unit will provide a general overview of the five kingdoms of living organisms and consider different views on the origin of life and species. Reasons for maintaining biodiversity will be discussed.</p> <p>Prerequisite: Biology 30S</p>			

Chemistry	1 Credit	122	40S
<p>This course provides students with a background of theory and laboratory experiences leading to further studies at the postsecondary level. This course includes the following topics: reaction kinetics, chemical equilibria, solutions, acids and bases, oxidation and reduction, and electrochemistry. There is a major emphasis on equilibrium processes as it relates to chemical reactions.</p> <p>Prerequisite: Success in Applied 30S or 11 Pre-Calculus Math 30S at 75% or better. Success in Chemistry 30S at 75% or better.</p>			

Chinese(Mandarin): 4 Year Programming	1 Credit	1015	40S
<p>**For IP students only</p> <p>Students are split up into different Chinese classrooms based on their level and background. For the students of beginner levels of language and no Chinese background, the emphasis in class is on oral communication and very basic writing skills. For the intermediate students, this course is designed to further develop oral and written skills: listening, speaking, reading and writing and also basic grammatical concepts. For the students of higher ability levels and Chinese background, they will be expected to read various samples of Mandarin novels, poetry and news sources. They will be learn about classic Chinese literature as well as traditional Chinese culture.</p> <p>Prerequisite: Placed by Mandarin Department; for IP students</p>			

Chinese(Mandarin): 3 Year Programming	1 Credit	1016	40S
<p>**For C students only</p> <p>Students are split up into different Chinese classrooms based on their level and background. For the students of beginner levels of language and no Chinese background, the emphasis in class is on oral communication and very basic writing skills. For the intermediate students, this course is designed to further develop oral and written skills: listening, speaking, reading and writing and also basic grammatical concepts. For the students of higher ability levels and Chinese background, they will be expected to read various samples of Mandarin novels, poetry and news sources. They will be learn about classic Chinese literature as well as traditional Chinese culture.</p> <p>Prerequisite: Placed by Mandarin Department; for former C students</p>			

Cinema as a Witness to Modern History	1 Credit	1123	40S
<p>The course deals with historical developments and themes that have influenced the world history of the last one hundred years as part of a focused study of significant 20th Century historical events such as World War I, the Russian Revolution, the Great Depression, the Holocaust, World War II, the Cold War, the Vietnam War, the Civil Rights Movement, the Iranian Revolution, and the Civil War in Rwanda. Throughout the course, the students will enrich their understanding of the past as they apply the Concepts of Historical Thinking, conduct historical inquiry using a variety of sources, and view and deconstruct films based on the major topics in world history.</p> <p>Prerequisite: English 30S and with special permission</p>			

Computer Science	1 Credit	0280	40S
<p>This course is a second-level course in the science of software engineering, which builds on basic programming concepts. Many of the projects explored in this course replicate or have an effect on real-life scenarios, giving the class the opportunity to discuss the ethical impact of computers on our everyday lives.</p> <p>Prerequisite: None</p>			

Drafting Design Technology	1 Credit	7953	40S
<p>The emphasis of this course is on students' learning to communicate technical ideas, solve problems and manage information effectively. Students will learn the proper use of today's technology for design and production of technical documents. More importantly, students will learn skills for personal effectiveness and growth as it evolves throughout the duration of this course.</p> <p>Prerequisite: Drafting Design 30S</p>			

Drama 1A	1 Credit	239	40S
<p>The focus of the Drama Program at the 40S level is for students to apply their advanced dramatic/theatrical arts skills learned in prior levels, into a full-length theatrical play production (genre to be selected by the teacher). Students will participate in all areas (performance, aesthetic, technical, production).</p> <p>Prerequisite: Drama 20S</p>			

Economics	1 Credit	360	40S
<p>Students will study the basic concepts of economics and the principles of microeconomics and macroeconomics. Topics include opportunity cost, supply and demand, public goods and externalities, poverty and income, GDP, unemployment, inflation, economic growth, game theory and market structures, fiscal policy and monetary policy. Hands-on activities, lecture, and interactive internet activities are all used to help students gain an understanding of economic concepts. Students will be encouraged to think critically and develop an understanding about the current economic situations in Canada and around the world. This course provides students with a good knowledge base for taking micro and macroeconomics courses at the postsecondary level.</p> <p>Prerequisite: English 30S</p>			

Global Issues: Citizenship & Sustainability	1 Credit	1128	40S
<p>This course is a study of global issues in the contemporary world. Students will learn about ideologies, international politics and institutions such as the United Nations, NATO, and the World Bank. The course will also include the study of global economic disparities related to population, poverty, food security, environmental disasters, health care and education with special attention to the plight of refugees and displaced persons. The final part of the course requires each student to complete a research project on a conflict, taking place in the world today, such as in the Democratic Republic of Congo, Sudan, Somalia, Iraq, and/or Afghanistan.</p> <p>Prerequisite: English 30S * Compulsory credit for Manitoba (C) Students</p>			

Law	1 Credit	580	40S
<p>The Law 40S course is an introduction to our Canadian Legal system. It is designed to enable the student to discover his/her relationship to law, his/her legal rights and obligations and how law affects him/her now and in the future.</p> <p>Topics covered include; The Canadian Legal System, Basic principles of contracts, Consumer Law, Real Property, Credit transactions, Mortgages, Succession to property, Insurance, Family Law, Civil Rights, and Citizenship.</p> <p>Prerequisite: English 30S or teacher permission</p> <p>*May not be offered every year</p>			

Music 1A(Band)	1 Credit	258	40S
<p>This course is designed to assist the student to develop comprehensive musicianship and aural ability through performance in a band. Students will participate in a number of performances throughout the year to expand performance skills. All band students will be expected to follow a regimen of practice to improve ability and performance. Band can be taken as a full year or half a year course.</p> <p>Prerequisite: Music 30S(Band)</p>			

Music 2A(Choir)	1 Credit	260	40S
<p>This performance-based course is designed for students to continue developing mastery of solfege, major and minor scales, and 4 part harmonies. Students will convey musical interpretation with the use of dynamics and phrasing, while incorporating facial expression and movement for refined presentation. Students understand how a musical composition is structured through listening and analysis. Students will be able to aurally and visually identify repetition in musical scores. Students will continue to develop an understanding and appreciation of the differences in music from other cultures and the connections music brings to people, places and time. The topics in this class will provide a strong basis for the continuation of their music skills as the high school age child continues on their path to becoming a life-long participant of music. The course can be taken as a full or a half year course.</p> <p>Prerequisite: None</p>			

Physics	1 Credit	123	40S
<p>This course further develops a student's understanding of the basic principles and concepts of physics. The course is a continuation of Physics 30S and will further develop the topics introduced there. Students will use a variety of experimental approaches to describe relationships between variables. The course will include further topics in Mechanics (kinematics, dynamics, momentum, projectile motion, circular motion, work and energy) Fields (Universal gravitation, exploring space, electric fields, electric circuits, electromagnetic induction) and Modern Physics.</p> <p>Prerequisite: Concurrently taking Pre-Calculus Math 40S, 75% grade in Physics 30S and a 75% grade in Pre-Calculus Math 30S</p>			

Psychology	1 Credit	1010	40S
<p>This course is designed for students who are interested in learning about human behavior. An overview of topics include: Human Development, The Brain, Sleep, Learning, Memory, Motivation, Emotion, Personality, Sensation and Perception, Psychological Disorders and their treatment, and Social Psychology. Students will also gain insight into their own behavior and that of others.</p> <p>Prerequisite: English 30S or with special permission</p>			

Visual Arts 1A	1 Credit	274	40S
<p>This course is open to all students with or without a previous background in art. This course is designed to develop students' artistic abilities, for pleasure or to prepare for application to a fine art post-secondary institution. Students will study the elements and principles of art and design as well as develop skills in drawing, painting, mixed media, sculpture and printmaking. Students will be introduced to various aspects of art history and will be given opportunity to express their original and creative ideas through their artwork as well. An Art Show will happen every year, and each art student will contribute art work to it.</p> <p>Prerequisite: Visual Art 20 or with special permission</p>			

Western Civilization	1 Credit	1136	40S
<p>Western Civilization is a historical survey course of eras, events, people and ideas that have shaped the Western World. Through units of study spanning the Ancient to the Modern World, students are encouraged to identify patterns in historical movements and make connections between past events and present situations.</p> <p>Prerequisite: None</p> <p>*May not be offered every year</p>			

Business Management	1 Credit	0316	40S
<p>Business Management focuses on developing skills in planning, leading, organizing, controlling, and staffing. Students will study various management styles and participate in activities related to human resources, inventory, finance, and project management. This course is designed for students interested in furthering their knowledge of management strategies used in various settings and furthering their knowledge of business ownership.</p> <p>Prerequisite: None</p>			

Manitoba Sino-Dual Program International Courses

Grade 10C

*These courses are exclusively offered through the **International Program**, and will be taken in the mornings every day at the international school in **English**. These courses **will be** included on the Manitoba transcript.*

***10C students were previously referred to as 10A.*

Mandatory Courses: *(All students must complete all of these to move on to Grade 11)*

- English 20F
- Essential Math 20S **OR** Introduction to Applied and Pre-Calculus Mathematics 20S
- Physical Education/Health 20F
- Science 20F
- Geographic Issues of the 21st Century 20F

Elective Courses:

****There are no electives in the international program for 10C students.**

Course Descriptions:

English Language Arts	1 Credit	1	20F
<p>This course consists of a detailed study and literary analysis of novels, short stories, plays, poems, articles, essays and films in addition to specific units on study skills, research skills, public speaking and drama. The goal of the course is to define all the basic skills with a special emphasis on reading and writing. Students will learn to write more extensively for a variety of purposes and audiences, with a special focus on thesis development and essay writing. Study of the media is also incorporated into the program.</p> <p>Prerequisite: English 10F</p>			

Essential Mathematics	1 Credit	3000	20S
<p>This course is intended for students whose post-secondary plans do 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. Primary units include Analysis of games and numbers, Personal Finance, Measurement, 2-D Geometry, Trigonometry, Consumer Decisions, Transformations and Angle Construction. Students with a mark lower than 65% in Grade 9 Math are encouraged to take Essential Math in Grade 10.</p> <p>Prerequisite: Math 10F</p>			

OR

Intro to Applied & Pre-Calculus Math	1 Credit	3905	20S
<p>Grade 10 Introduction to Applied and Pre-calculus Mathematics 20S is intended for students considering post-secondary studies that require a math prerequisite. 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. Components of the curriculum are both context driven and algebraic in nature. Students will engage in experiments or activities that include the use of technology, problem solving, mental mathematics, and theoretical mathematics to promote the development of mathematical skills. These experiences will provide opportunities for students to make connections between symbolic mathematical ideas and the world around us.</p> <p>Pre-requisites: 75% or higher in Math 10F</p>			

Physical Education/ Health Education	1 Credit	169	20F
<p>This course offers a variety of activities including; competitive, cooperative, team, individual and lifetime sports activities. Included is Health II which involves topics such as nutrition, substance use and abuse and human sexuality. In addition to all the curriculum topics offered, a philosophical view of the principles of fair play and sportsmanship are integrated into all lessons. Students will also discover ways to develop healthy lifestyle practices, promote active living and maintain healthy relationships.</p> <p>Prerequisite: None</p>			

Science	1 Credit	120	20F
<p>The course continues the goals of 9 Science. Topics are centered around change as it applies to ecosystems, chemical changes, and motion with a special emphasis on automobile safety and the changing nature of weather. Grade 9 and 10 Science are significant courses in introducing fundamental concepts that will be required in Grade 11 and 12 science courses.</p> <p>Prerequisite: Science 10F</p>			

Geographic Issues of the 21st Century	1 Credit	1180	20F
<p>Students will explore the nature of geography and develop relevant skills to help increase their ability to think globally and geographically. Students will be challenged to learn about and investigate a variety of evolving geographic issues including how food is produced and distributed, natural resource ownership and development, industry and trade (as it relates to what is happening in our urban and rural spaces) and, arising environmental-impact concerns.</p> <p>Prerequisite: Social Studies 10G</p>			

Manitoba Sino-Dual Program Bilingual Courses

Grade 10C

*These courses are exclusively offered through the **Bilingual Program**, and will be taken in the afternoons every day at the bilingual school in **Mandarin**. These courses **will not be** included on the Manitoba transcript.*

Mandatory Courses: *(All students must complete all of these to move on to Grade 11)*

- Math
- Physics
- Chemistry
- Biology
- Mandarin
- Geography
- Politics
- History

Manitoba Sino-Dual Program International Courses

Grade 11C

*These courses are exclusively offered through the **international program**, and will be taken in the mornings every day at the international school, in **English**. These courses **will be** included on the Manitoba transcript.*

***11C students were previously referred to as 11A.*

Mandatory Courses: *(All students must complete all of these to move on to Grade 12)*

- ELA: Comprehensive Focus 30S
- Applied Math 30S **OR** Essential Math 30S **OR** Pre-Calculus 30S **OR** Combined Grade 11/12 Pre-Calculus
- Physical Education/Health 30F
- History of Canada 30F
- Biology 30S

Elective Courses:

- Subject to timetable availability, students will be offered **ONE** elective course to choose

Course Descriptions:

ELA: Comprehension Focus	1 Credit	92	30S
<p>Students in this course will develop a wide range of literacy skills. The Comprehensive Focus devotes approximately equal time to transactional and literary texts. Students will study a wide range of literature including articles, poetry, memoirs, biographies, one Shakespearean play, essays, short stories and novels. Media and films will also be examined. A variety of writing tasks will be performed, including essays, biographies and the creation of an ongoing writing portfolio. Class activities will include formal and informal discussions, visual and written projects, presentations, group and individual work and scripted and improvisational drama. Students will be building their literacy skills and will be encouraged to think critically and independently.</p> <p>Prerequisites: English 20F</p>			

Applied Mathematics	1 Credit	3903	30S
<p>Applied Mathematics (30S) is intended for students considering post-secondary studies who do not require a study of theoretical calculus. It is context-driven and promotes the learning of numerical and geometrical problem-solving techniques as they relate to the world around us. Students will use a graphing calculator, mathematical exploration, modelling, and problem solving. Topics include: proofs, quadratic functions, trigonometry, scale, statistics, and systems of inequalities. The cost of an appropriate graphing calculator is approximately \$100.00. Students may also use a graphing calculator app if they own a tablet device or smart phone.</p> <p>Prerequisite: Introduction to Pre-Calculus & Applied Mathematics 20S (not Essential Math 20S)</p>			

OR

Pre-Calculus Mathematics	1 Credit	3939	30S
<p>11 Pre-Calculus Mathematics is designed for students who intend to study calculus as part of their postsecondary education or pursue a degree in science, engineering or another field that requires calculus. Students will study high-level, theoretical mathematics with an emphasis on problem solving and mental mathematics. Topics include: quadratic functions, radicals, rationals, sequences, trigonometry, inequalities, and systems. A graphing calculator is recommended. The cost of an appropriate graphing calculator is approximately \$100.00. Students may use a graphing calculator app if they own a tablet device.</p> <p>Prerequisite: 75% in Introduction to Pre-Calculus and Applied Math 20S or special permission</p>			

OR

Grade 11/12 Combined Pre-Calculus	2 Credit	3939	30S/40S
<p>Grade 11/12 Combined Pre-Calculus is designed for students who intend to study calculus as part of their postsecondary education or pursue a degree in science, engineering or another field that requires calculus. Students will study high-level, theoretical mathematics with an emphasis on problem solving and mental mathematics. Topics include: quadratic functions, radicals, rationals, sequences, trigonometry, inequalities, and systems. A graphing calculator is recommended. Both Grade 11 and 12 courses are taught in one year, and is a very intensive program. Term 1 will be the Grade 11 Pre-Cal, and Term 2 will be the Grade 12 course.</p> <p>Prerequisite: 75% in Introduction to Pre-Calculus and Applied Math 20S or special permission</p>			

Physical Education /Health Education	1 Credit	169	30F
<p>This compulsory full credit course is designed to help students begin to take ownership of their personal physical activity levels and physical fitness development. Students are encouraged to discover physical activities suited to their personal interests, which will promote an active healthy lifestyle. This Grade 11 course will include core curriculum topics related to: Fitness Management, Mental/Emotional Health, Substance Use and Abuse prevention; and the Social Impact of Sport, participation in physical activity blocks and a Physical Activity Practicum. Seventy-five percent of the course will be teacher led activities while the remaining twenty-five percent will be physical activity involvement outside the school. The student will be required to develop and implement a physical activity plan, which will include steps to developing their personal fitness and risk management associated with the physical activity practicum.</p> <p>Prerequisite: None</p>			

History of Canada	1 Credit	105	30F
<p>Students in this course will study the social, political and economic history of Canada as well as explore current issues in Canadian History. Students will also learn the role of the West in the development of Canada.</p> <p>Prerequisite: None</p>			

Biology	1 Credit	124	30S
<p>The Biology 30S course encompasses on one hand an introduction to the life sciences and on the other, an overview of human anatomy and physiology. The first part of the course includes the study of biological characteristics, a presentation of cell theory, and an introduction to biochemistry. The bulk of the course entails a relatively detailed study of the human body. The human systems are examined from an anatomical, physiological and pathological viewpoint.</p> <p>Prerequisite: Science 20F</p>			

Manitoba Sino-Dual Program Bilingual Courses

Grade 11C

*These courses are exclusively offered through the **bilingual** program, and will be taken in the afternoons every day at the bilingual school in **Mandarin**. Courses without an asterisk **will not be** included on the Manitoba transcript.*

Mandatory Courses: *(All students must complete all of these to move on to Grade 12)*

- Math
- Physics*
- Chemistry*
- Mandarin
- Biology

At the end of grade 11, Manitoba students will take the following exams: Physics, Chemistry and Biology. Upon successful completion and passing of these exams, the Guangdong Educational Bureau will issue a high school diploma.

AP Courses

These courses are offered according to student interest and availability of teachers, so they often change on a year to year basis.

**Courses run for the full year, however are finished at the beginning of May. Students have the opportunity to take the AP exam and potentially get a university level credit, as well as a school exam to attain a corresponding Manitoba credit.

Courses tentatively offered:

AP Calculus(AB)	1 Credit	3901	42S
<p>AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. You'll learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. You will learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.</p> <p>Prerequisite: Minimum 80% in Grade 11 Pre-Calculus Mathematics (30S) or with permission from instructor.</p>			

AP Psychology	1 Credit	356	42S
<p>The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.</p> <p>Prerequisite: Minimum 75% in Grade 10 or 11 English Language Arts or with permission from instructor.</p>			

AP Micro-Economics	1 Credit	359	42S
<p>Explore the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within an economic system.</p> <p>Learn about the nature and functions of product markets and factor markets and about the role of government in promoting greater efficiency and equity in the economy.</p> <p>Prerequisite: Minimum 75% in Grade 10 or 11 English Language Arts or with permission from instructor. Grade 10 Start Your Own Business (25S) and Grade 11 Visions and Ventures: Entrepreneurship (30S) are also strongly encouraged.</p>			

AP Macro-Economics	1 Credit	358	42S
<p>Explore the principles of economics that apply to an economic system as a whole.</p> <p>Learn about concepts such as national income and price determination and develop your familiarity with economic performance measures, the financial sector, stabilization policies, economic growth and international economics.</p> <p>Prerequisite: Minimum 75% in Grade 10 or 11 English Language Arts or with permission from instructor. Grade 10 Start Your Own Business (25S) and Grade 11 Visions and Ventures: Entrepreneurship (30S) are also strongly encouraged.</p>			

Address: Shiguang Road, Panyu Guangzhou, Guangdong Province 511495, P.R.C

Telephone: (8620)3477 9024

AP History: World	1 Credit	106	42S
<p>The AP World History course focuses on developing students' understanding of the world history from approximately 8000 BCE to the present. This college-level course has students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past.</p> <p>Prerequisite: Minimum 75% in Grade 10 or 11 English Language Arts or with permission from instructor.</p>			

AP Chinese Language and Culture	1 Credit	297	42S
<p>Develop your Chinese language proficiency through the exploration of a variety of interdisciplinary themes that tie closely to Chinese culture.</p> <p>In this course, you will use authentic Chinese materials and sources to develop your language skills in multiple modes of communication, including two-way interactions in both writing and speaking; interpretation of audio, audiovisual, and print materials; and oral and written presentation of information and ideas.</p> <p>Prerequisite: None</p>			

AP Statistics	1 Credit	0357	42S
<p>The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.</p> <p>Prerequisite: Minimum 75% in Grade 10 or 11 English Language Arts and minimum 80% in grade 10 or 11 Math (or with permission from instructor).</p>			

AP Computer Science	1 Credit	0290	42S
<p>Computer Science A emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development and is meant to be the equivalent of a first-semester course in computer science. It also includes the study of data structures and abstraction.</p> <p>Prerequisite: None</p>			

SATs

Created by the College Board, the SAT is an entrance exam used by most colleges and universities to make admissions decisions in the United States of America (as well as some colleges and universities in other countries). Clifford School is a designated SAT Test Writing Center. Students have the opportunity to write the SAT and SAT Subject Tests at Clifford School.

To register and view the most up-to-date schedule of tests, students must make an account at www.sat.org/international.

Clifford School's College Board High School Code is: 694212

Clifford School's SAT Test Center Number is: 74338

Once students register, they should see the AP and SAT Coordinator, Mr. Helmer (room 403), to verify that registration has been successful.