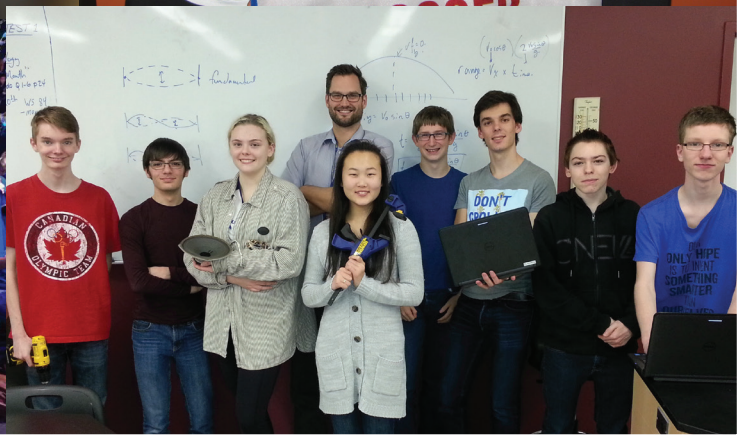
St. James-Assiniboia School Division
2016-2017 High School
Common Course Book



Great Schools for Growing and Learning
www.sjsd.net

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The Senior Years

The Senior Years in the St. James-Assiniboia School Division provides a varied curriculum to meet the needs, interests, and abilities of students. The program provides a sound basis for further education or immediate employment.

This booklet has been designed to answer some of the questions that arise as students make the transition to the senior years of secondary education. The aspects of the senior years are as follows:
Structure, Semester System, Credit System, Attendance Policy, Course Selection, and Graduation Certificates.

STRUCTURE
The Manitoba Education high school structure includes Grades 9, 10, 11, and 12.

SEMESTER SYSTEM
The majority of senior year's courses are taught on a semester system; that is, the course runs from September to the end of January or from February to the end of June. Some courses are taught from September to June and are referred to as non-semestered. Each student is timetabled individually depending on the courses selected.

CREDIT SYSTEM
The credit system provides a framework enabling students to pursue programs best suited to their individual needs and aspirations. A student may earn one credit by successfully completing a course of study. Half credits may be earned in a similar manner.

ATTENDANCE POLICY
Students are expected to be in their scheduled classes on time. Schools have an open campus for those students with unscheduled time. Students may choose to study/read in the library, to socialize in the cafeteria, or to leave the school grounds. The granting of course credits on a per subject basis is conditional on meeting school attendance requirements.

Student Services

Student Services is comprised of counsellors and resource teachers whose primary goals are to assist students in overcoming academic, vocational, personal, or social problems, which may interfere with the pursuit of their educational goals. Information is provided on post-secondary planning and career prospects. Parents/students should contact universities, colleges, and/or other institutions for specific entrance requirements. Institutions will usually mail their program requirements to you on request.

Graduation Requirements

Students are required to accumulate a minimum of 30 credits to graduate with a Manitoba Provincial Diploma.

CERTIFICATES and DIPLOMAS

The **St. James-Assiniboia School Division Certificate** is awarded to students who have completed 40 hours of community service (see COMMUNITY INVOLVEMENT ACTIVITY CERTIFICATE).

The **SJASD Technology Education Certificate** is awarded to students who successfully complete a minimum of 30 credits, including compulsory academic subjects, and vocational requirements.

The Senior Years **SJASD French Immersion Diploma** is awarded to students who earn a minimum of 30 credits in grade 9 to grade 12 including a minimum of 14 credits earned in courses where the French is the language of instruction, and who complete all the other requirements for graduation. French Immersion students must complete the compulsory English Language Arts courses in grade 9 to grade 12. In grade 9, Français, Mathématiques, Sciences humaines, and sciences de la nature are required subjects. In grade 10, Français, Mathématiques, Sciences de la nature and Géographie are required subjects. In grade 11, Français, Mathématiques and at least one other French Immersion course are required. In grade 12, required subjects include Français and at least two other courses taken in French.

The **International Baccalaureate (IB) Diploma** is a comprehensive pre-university program that demands the best from academically motivated students. This program is offered at both Collège Sturgeon Heights Collegiate and Westwood Collegiate. It is a sophisticated two-year curriculum offered to over half a million students in 119 countries. The curriculum aims to encourage critical thinking by the study of traditional disciplines while encouraging an international perspective. Assessment is varied and takes place over two years with final exams in each subject.
Student's work is assessed by an international board of examiners monitored by the International Baccalaureate Organization (IBO). Subjects are scored on a 1 to 7 scale with a further three points available for the Theory of Knowledge and the Extended Essay. Students who display good levels of performance and achieve a minimum of 24 points (out of a possible 45) are awarded the diploma. All others receive a certificate for each of the subjects completed.

The **International Baccalaureate Bilingual Diploma** (French Immersion) offered at Collège Sturgeon Heights Collegiate is designed for students who wish to graduate with a Manitoba French Immersion diploma as well as with a Bilingual IB Diploma. To obtain the IB Bilingual Diploma, students would complete the IB requirements and complete their Language A2 program in French. Language A2 is a program and assessment designed for fluent speakers with a high level of competence in that language, i.e. French Immersion students.

St. James-Assiniboia School Division Community Activity Service Certificate

This certificate is awarded to students who complete a minimum of 40 hours of unpaid community involvement before graduating. The 40 hours can be completed in one year or spread out over the grade 9 to grade 12 years. This requirement is in addition to the credits needed for a St. James-Assiniboia School Division diploma.

Participating in community involvement activities enriches the lives of all students. It provides developmental opportunities that promote personal, social and intellectual growth, as well as civic responsibility and career exploration. Many favourable results occur in each of the aforementioned activities.

These include:

- developing self-confidence and self-esteem
- openness to new experiences and roles
- ability to take risks and accept challenges
- a sense of usefulness and purpose
- ability to work cooperatively with others
- a sense of caring for others
- acceptance and awareness of others from diverse backgrounds
- critical thinking skills
- a sense of responsibility to contribute to society
- awareness of community needs
- human service skills

Information on the community involvement graduation requirement for students and parents, as well as for the persons and organizations who are asked by students to sponsor a particular community involvement activity is available on our website, www.sjsd.net in our policy manual.

Students will select one or more community involvement activities in consultation with their parents. Selection of activities should take into account the age, maturity, and ability of the student, the location and environment of the proposed activity, and the need for any special training, equipment, and preparation. The safety of the student is paramount.

It should be noted that students will not be paid for performing any community involvement activity. A parent is not required to sign a form or to be consulted if the student is eighteen years of age or older.

Principals are required to provide information about the community involvement requirement to parents, students, and community sponsors. Principals are also required to provide students with the information and forms they will need to complete the community involvement requirement, including the list of ineligible activities. After a student completes the 40 hours of community involvement and submits all documentation of their completion to the school, the principal will decide whether the student has met the community involvement requirement and if so, will record it as completed on the student's official transcript.

Registration

1. General Information

a. Students/parents registering during February will be supplied with a blank registration form. A parent/guardian signature is required on this form.

b. Students registering at other times must make an appointment for an interview with the Principal. They must bring with them a transcript of previous marks, and an attendance profile.

c. Students new to Manitoba must have their standing assessed by an administrator prior to completing registration.
New students must be accompanied by a parent/guardian upon registration. Additional documents (eg. birth certificate; MB Health card) may be required.

d. Students from out of Division or the catchment area must be accompanied by a parent/guardian upon registration. Additional documents (eg. birth certificate; MB Health card) may be required.

2. Completion of the Registration Form

a. Planning Guides for each program have been included for your convenience.

b. Registration forms are distributed to students in the middle of February. Applications are processed on a first-come, first-served basis.

3. Special Notes

a. Give careful consideration to courses selected. In many instances it will be impossible to make alternate choices later. Selections made during the spring registration period will determine the courses offered for the next school year. Timetable changes will be considered based on individual needs and space availability.

i. Grade 9 and 10 students are recommended to be fully timetabled for both semesters (no spares).
ii. All grade 11 and 12 students are expected to register for a minimum of 6 credits, but 8 is recommended.

b.It may be necessary to restrict the number of students in a course or to cancel a course if the number of registrations is low.

Course Selection

The Senior Level course numbering system is made up of a minimum five character, alphanumeric code. The first and second characters are letters, the third and fourth are numbers and the remaining characters are letters.

First Two Characters

These first two characters are each letters, which are used as a course description:
MA - Math EN - English SC – Science SS - Social Studies HI – History PE – Physical Education
GE - Geography

Third Character

1 - courses developed for grade 9
2 - courses developed for grade 10
3 - courses developed for grade 11
4 - courses developed for grade 12

Fourth Character

0 - courses developed or approved by the province for 1 credit
5 - courses developed or approved by the province for 1/2 credit
1 - courses developed by a school or division and approved or registered by the province
2 - courses developed elsewhere and approved or registered by the province
(e.g. university, out-of province, and out-of-country)

Fifth Character

Courses in each subject are identified as foundation, general, specialized, advanced, modified, individualized, or English as an Additional Language.

F – Foundation: educational experiences, which are broadly based and compulsory for all students. The following courses have been designated as Foundation Courses: EN10F, SC10F, MA10F, PE10F, SS10F, EN20F, GE20F, PE20F, SC20F, HI30F

G - General: general education experiences for all students.

S – Specialized: educational experiences in specialized areas leading to further studies beyond high school.

M – Modified: educational experiences intended for students with specific cognitive disabilities and where the provincial subject area curriculum outcomes have been modified to take into account the learning requirements of a student; an Individual Education Plan (IEP) is required for each student.

I – Individualized: educational experiences intended for students with significant cognitive disabilities and are developmentally and age appropriate and highly individualized to take into account the learning requirements of the student; an Individual Education Plan (IEP) is required for each student.

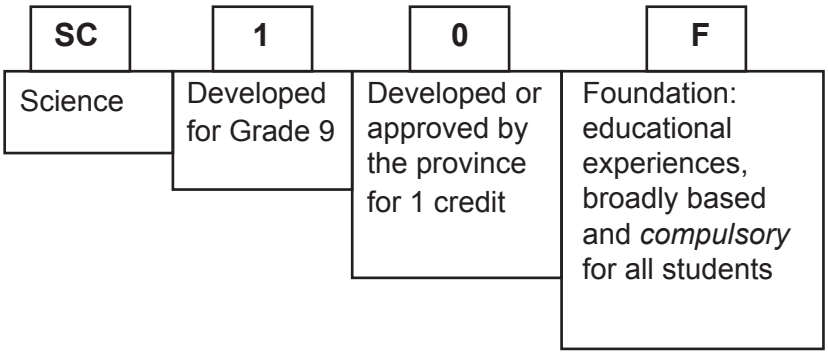
E – EAL: educational experiences designed to assist students for whom English is not a first language in making a transition into the English program.

IB – International Baccalaureate

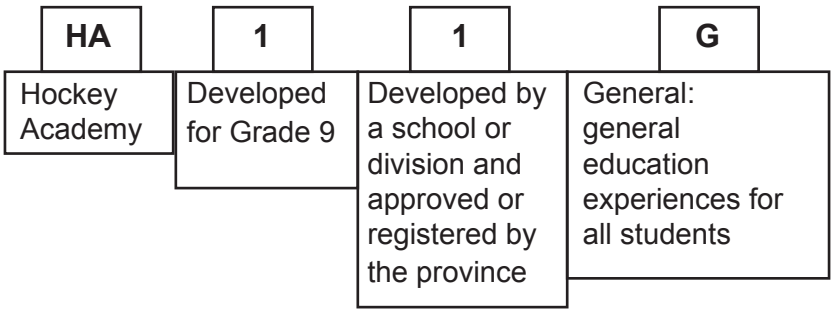
PB – Preparation for International Baccalaureate Programme

X – French Immersion

EX: SC10F



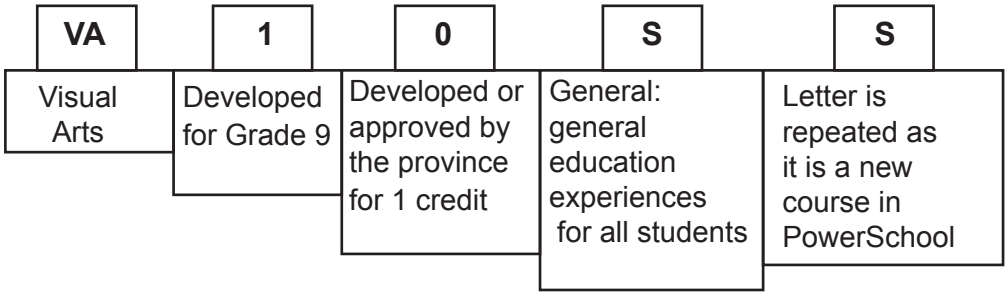
EX: HA11G



Sixth and Subsequent Characters
When used, will assist in further describing the course name.
i.e. H – Preparation for Advanced Placement Program

NEW High School Arts and Vocational Courses Identification

EX: VA10SS



Important Note

- All School-Initiated Courses (SIC) will ONLY run if approved by the Department of Education.
- All Student-Initiated Projects (SIP) will ONLY run if approved by the Department of Education.

School Board Awards

GOVERNOR GENERAL'S MEDAL

This **BRONZE** medal is the most prestigious award recognized across Canada and is awarded to the student who achieves the highest average upon graduation from a secondary school.

The average includes all grade 11 and 12 courses as listed on the student's official Transcript of Grades issued by the school. The average cannot be anticipated, it must be calculated based on final results after provincial/ territorial examinations, where Manitoba Education requires final exams. Equitability of access for the entire student population is an important aspect of the Medal's value. Regardless of the stream or the subjects chosen, all students are eligible for consideration upon graduation. Courses taken after graduation to upgrade marks are not to be included.

AWARD OF EXCELLENCE

The St. James-Assiniboia Award of Excellence is presented to the Grade 12 graduate in each senior years school who attains the highest average in the following courses totaling six credits: one English 40S (which contains the Provincial exam), Math 40SA or SP, and any four Grade 12 Level S courses with a maximum of two courses from any department. For French Immersion students only, Français 40SX may replace the English 40S. Only full one-credit courses are to be counted. Only courses taken in the St. James-Assiniboia School Division may be used to calculate the average. Provincial exam results are to be used in average calculation. In the event of a tie, the highest average of the English 40S/ Français 40SX course which contains the Provincial exam results and Math 40SA or SP is to be used.

ACADEMIC SCHOOL BOARD CASH AWARDS

1.School Board cash awards allocated to Academic and Technology areas are awarded to students with the highest averages. To be eligible a student must:

- be graduating if in grade 12.
- have at least a 70% average based on courses at the current grade level. (Note: courses at the current grade level, but taken in previous years may be used)
- must have no failing subjects in the current school year.
- must have completed the minimum 40 hours of Community Involvement Activity (CIA)

2. Averages are to be based on:

- the required courses as defined by the School Division.
- a minimum of 8 credits at the grade 9 level, a minimum of 6 credits at the grade 10 level, a minimum of 6 credits at the grade 11 level, and a minimum of 5 at the grade 12 level, with the exception of the technology award where 6 credits in grade 12 courses are required.

3. Students are only eligible for awards at their current grade level.

4. Winners of a School Board cash award for the Academic area must include:

- Grade 9 – a minimum of 8 grade 9 credits
- Grade 10 – a minimum of 10 credits of which at least 6 are in grade 10 subjects
- Grade 11 – a minimum of 6 credits in grade 11 subjects
- Grade 12 – a minimum of 5 credits in grade 12 subjects for a grade 12 award with the exception of Technology Award where 6 credits in grade 12 subjects are required

5. All courses will be given equal weighting, i.e. weight of 1, in the calculation of an average.

6. All awards will be based on final marks.

7. Students who have previously graduated and have returned to take additional credits are not eligible for School Board cash awards.

8. Students transferring in from another St. James-Assiniboia school at the beginning of the second semester will be eligible for a School Board cash award.

9. Students transferring in from any school outside St. James-Assiniboia will only be eligible for School Board cash awards if the transfer occurs in the first semester and only if all criteria are met.

10. Exchange students and International Program students are not eligible for School Board cash awards.

11. Student marks received in an Independent Study Program, Continuing Education, evening school or intersession, and any Summer School courses are not to be used towards a School Board cash award.

Vocational Education across High Schools in St. James-Assiniboia School Division

The mission of the St. James-Assiniboia School Division is to provide a meaningful, safe and caring educational environment so that all students are prepared to be responsible citizens in a democratic society. To this end, as a school division, we are continuously exploring innovative ways to provide programming for our students so that they can choose to stay in their neighbourhood schools.

Our high schools are planning to offer more technical/vocational opportunities to all students in the division. If you are interested in vocational courses not offered at your neighbourhood school please contact your principal to explore possible classes in our other high schools.

Online Learning in St. James-Assiniboia School Division

Any high school student currently enrolled in the St. James-Assiniboia School Division may register for online courses offered by InForm Net (**www.informnet.mb.ca**).

Online learning through InForm Net provides students with daily instruction, assignments and evaluation through regular email and web-based interaction from a certified high school teacher. The student's home school provides the course credit when subject requirements are met.

Online learning is not for everyone. It is an opportunity given to students who cannot get into a course offered at their school, need a credit required for graduation or would like to try a course not offered at their home school. The guidance counselor and school administration have the right to limit access to online courses if there are relevant academic issues associated with the student that would hinder progress in an online environment.
Please visit the InForm Net website (**www.informnet.mb.ca**) for updated information and/or see your school counselor.

InForm Net Course Listing for 2016-17

First Semester Courses

- Math: Essential 20S
- Math: Essential 30S
- Math: Essential 40S
- ELA 10F
- ELA 20F
- ELA Comprehensive Focus 30S
- ELA Comprehensive Focus 40S
- Physical Education 30F
- Psychology 40S
- Physics 30S
- Physics 40S
- Math: Pre-Calculus 30S
- Math: Pre-Calculus 40S
- Social Studies 10F
- Geography 20F
- Science 10F
- Science 20F
- Computer Science 30S (Ends March 31)
- Computer Science 40S (Ends March 31)

Second Semester Courses

- History 30F
- Applied Math 30S
- Applied Math 40S
- Chemistry 30S
- Chemistry 40S
- Biology 30S
- Biology 40S
- ELA Transactional Focus 30S
- ELA Transactional Focus 40S
- Physical Education 40F
- Global Issues 40S
- Law 40S

Students will be able to start second semester courses during the first week of February and must be completed all course work by June 10.

Please visit the InForm Net website (**www.informnet.mb.ca**) for updated information and/or see your school counselor.

How much does it cost?
Students who are registered in a St. James-Assiniboia school do not pay student fees for regular school year courses.

Attendance Policy

- Notification sent out when a student has not logged in or completed any work for 10 days.
- A removal notification will be emailed if you have not logged in or completed any work for 20 days.
- Removal from the course if you have not logged in or completed any work for 30 consecutive days.

** Any SJSD students taking a 40S Web-Based Course with InForm Net will write a home-school based proctored exam.The exam maybe done online or on paper.**

Provincial Exams
InForm Net is a program, not a school, and therefore has no authority when it comes to the writing of provincial exams. All St. James-Assiniboia School Division students are required to write the provincial exam(s) at their home school. All final marks issued by InForm Net are based on a final mark of 100%. If a student has written a provincial exam, the student's home school is responsible for adjusting the student's final mark.

Compulsory Core Courses

The following section contains the five core subject areas: English, Mathematics, Science, Social Studies and Physical Education. Almost all of the following courses can be taken at any of the high schools. Each school may have additional courses in each of the subject areas. You will need to go to each individual school's section of the handbook to view all of the additional courses that each school has to offer.

ENGLISH LANGUAGE ARTS

FOUNDATION COURSES – GRADE 9 AND 10

ENGLISH - EN10F
This is an integrated, theme-based course designed to provide students with a solid foundation of literacy skills, knowledge, and learning strategies. The course emphasizes reading comprehension, personal and critical response, and interpretation of a variety of text forms. Students also learn to collect, organize, and synthesize information through research and inquiry processes.

In the 10F course, students express their ideas using the six English language arts of reading, writing, listening, speaking, viewing, and representing. Particular emphasis is placed on written communication, including exploration, examination, and analysis of the structure of sentences, paragraphs, essays, and longer fiction and non-fiction text. English 10F occurs every day for both semesters.

ENGLISH - EN20F
This is the second of the two foundation courses and completes the literacy skills, knowledge, and learning strategies begun in English 10F. The course continues to emphasize reading comprehension, personal and critical response, and interpretation of various text forms; text forms include short prose, poetry, novels, and Shakespearean plays. Students continue learning to collect, organize, and synthesize information through research and inquiry processes. Written communication skills continue to be a focus in EN20F. Students create various texts to demonstrate their ability to address a specific audience, for a specific context and purpose.

FOCUS COURSES – GRADE 11 AND 12
In grade 11 and 12, students choose one of three English curriculum focus courses to meet graduation requirements. These courses include the Literary Focus, the Transactional Focus, and the Comprehensive Focus. Unlike English language arts courses in the grades before Grade 11, Grades 11 and 12 courses offer different specializations based on the purposes for reading, writing, listening to, speaking, viewing, and representing texts. The Comprehensive Focus course covers a variety of purposes and provides an equal amount of time on working with texts for pragmatic (50%) and aesthetic (50%) purposes. The Transactional Focus course gives more weight to experiencing texts for pragmatic (70%) rather than aesthetic (30%) purposes. The Literary Focus course places more emphasis on working with texts for aesthetic (70%) rather than pragmatic (30%) purposes. Each of these courses is different from but equivalent to the others, and you can complete any or all of the three for credit.

What are aesthetic and pragmatic purposes?
Aesthetic is defined as a principle of taste (beauty) or style adopted by a particular person, group, or culture. Aesthetic works include: poetry, plays, novels, and short stories. For example, a student will read and analyze works of literature in terms of literary elements such as symbols, metaphors, similes or irony and explain how these are important in a literary piece.

Pragmatic is defined as of or relating to a practical point of view or practical considerations. Pragmatic writing includes: resumes, letters, speeches, and research essays. For example, students will learn how to write a cover letter and a proper resume.

NOTE: Each course will require the study of aesthetic and pragmatic pieces and purposes, but the focus of each is different.

All of the three focuses satisfy university entrance requirements. Students at the grade 12 level are required to write the Provincial ELA Standards Test, usually at the end of the first semester.

ENGLISH COMPREHENSIVE FOCUS - EN30SC
This course addresses the learning outcomes identified by the provincial curriculum for the grade 11 Comprehensive Focus. Students read and respond to a balance of pragmatic and aesthetic texts. For example, transactional or non-fiction texts are used for practical, every-day purposes, while literary texts are used for aesthetic, expressive, and creative purposes.

ENGLISH LITERARY FOCUS - EN30SL
The Grade 11 Literary course provides students with the opportunity to explore novels, plays, short stories and poetry. The course examines how writers use techniques or devices in their works, and more importantly, the effects these techniques have on the reader.

ENGLISH TRANSACTIONAL FOCUS – EN30ST
The grade 11 transactional provides students with the opportunity to create and reflect upon personal goals and begin examining career choices. They also have the opportunity to create connections and explore the inquiry process through research. All of these skills are explored using a variety of materials that include novels, poetry and non-fiction texts.

ENGLISH COMPREHENSIVE FOCUS - EN40SC
This course addresses the learning outcomes identified by the provincial curriculum for the grade 12 Comprehensive Focus. Students read and respond to a balance of pragmatic and aesthetic texts at a more advanced level than the grade 11 course.

ENGLISH LITERARY FOCUS - EN40SL
This course addresses the learning outcomes identified by the provincial curriculum for the grade 12 Literary Focus. Students read and respond primarily to literary or aesthetic text forms - including poetry, short prose, Shakespearean plays, and novels - at a more complex and deeper level than at the grade 11 level.

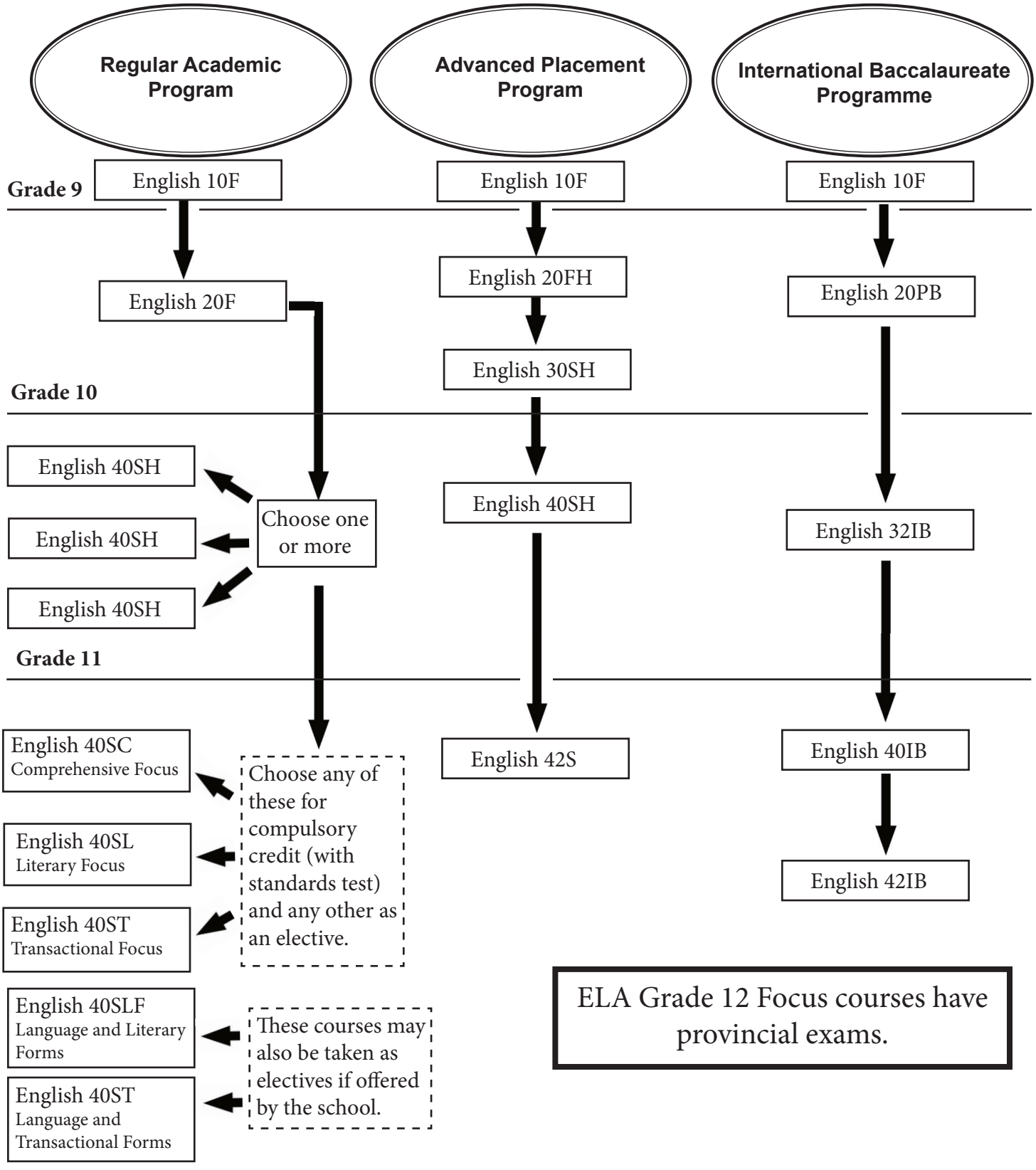
ENGLISH TRANSACTIONAL FOCUS - EN40ST
This course addresses the learning outcomes identified by the provincial curriculum for the grade 12 Transactional Focus. Students read and respond primarily to transactional, pragmatic, or functional texts at a more advanced level than at the grade 11 level.

ENGLISH LANGUAGE AND LITERARY FORMS - EN40SLF
This course provides for an in-depth examination and study of language forms, various genres in literature with a specific emphasis on the cultural mosaic contained in literature. Critical analysis of such literary forms as the short story, novel, poetry and drama are undertaken with the express purpose of determining what makes each literature type unique. For instance, what makes a novel what it is and/or what devices of language might an author use in the composition of the novel?

ENGLISH LANGUAGE AND TRANSACTIONAL FORMS - EN40STF
In some respects, this course builds on the compulsory, transactional course (EN40ST) by focusing on several distinct transactional forms, namely those most frequently associated with the world of business (eg. business letter, report, interview), education (eg. essay forms, analysis and synthesis), research (eg. data collection and interpretation), journalism (eg. the five W's), consumerism and the media (eg. advertising, propaganda) and social interaction (eg. legalese, cultural diversity.

English Language Arts

* Students may change program at any time.



MATHEMATICS

Grade 9

MATHEMATICS FOUNDATIONS - MA10F
This course provides the foundation for the various mathematics courses at the grade 10 level. The course includes, but is not limited to, statistics, probability, measurement, algebra, geometry and problem solving.

Grade 10

MATHEMATICS ESSENTIAL - MA20S
Grade 10 Mathematics Essential is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields. Mathematics Essential topics emphasize 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.

MATHEMATICS INTRODUCTION TO APPLIED AND PRE-CALCULUS - MA20SPA
The grade 10 introduction to Applied and Pre-Calculus is intended for students considering post-secondary studies that require a math pre-requisite. The topics studied form the foundation for topics to be studied in both grade 11 Applied and Pre-Calculus Mathematics. Students will engage in experiments and activities that include the use of technology, problem solving, mental mathematics and theoretical mathematics to promote the development of mathematical skills.

Grade 11

MATHEMATICS APPLIED - MA30SA
This is one of two math programs available for students planning to pursue post-secondary studies in mathematics and science. It is intended for students whose post-secondary studies do not require the study of theoretical calculus. The math studied promotes the learning of problem solving skills, number skills and geometry skills as they relate to the world around us.

Topics include:

- Quadratic Functions
- Proofs
- Statistics
- Systems of Inequalities
- Mathematics Research Project
- Trigonometry

MATHEMATICS ESSENTIAL - MA30SS
This course is intended for students whose post-secondary planning does not include a focus on mathematics and science related fields. This is a one credit course comprising two half credits, each emphasizing consumer applications, problem-solving and decision making, as well as number sense and spatial sense.

Students are expected to work both individually and in small groups on mathematical concepts and skills encountered and used in a technological society.

Topics include:

- Analysis of Games and Numbers
- Interest and Credit
- 3-D Geometry
- Statistics
- Managing Money
- Relations and Patterns
- Trigonometry
- Design Modeling

MATHEMATICS PRE-CALCULUS - MA30SP
This course is designed for students who intend to study calculus and related mathematics as part of a post-secondary education. The course comprises, primarily, a high-level of theoretical mathematics with an emphasis on problem solving and mental mathematics, supported by cumulative exercises and testing.

Students are required to learn mathematical concepts through practice and regular homework. Many of the questions and problems on exercises, tests and examinations can be expected to be different from those presented in class.

Topics include:

- Quadratic Equations and Functions
- Radicals & Rationals Equations and Expressions
- Sequences
- Inequalities
- Algebra
- Trigonometry
- Relations and Functions

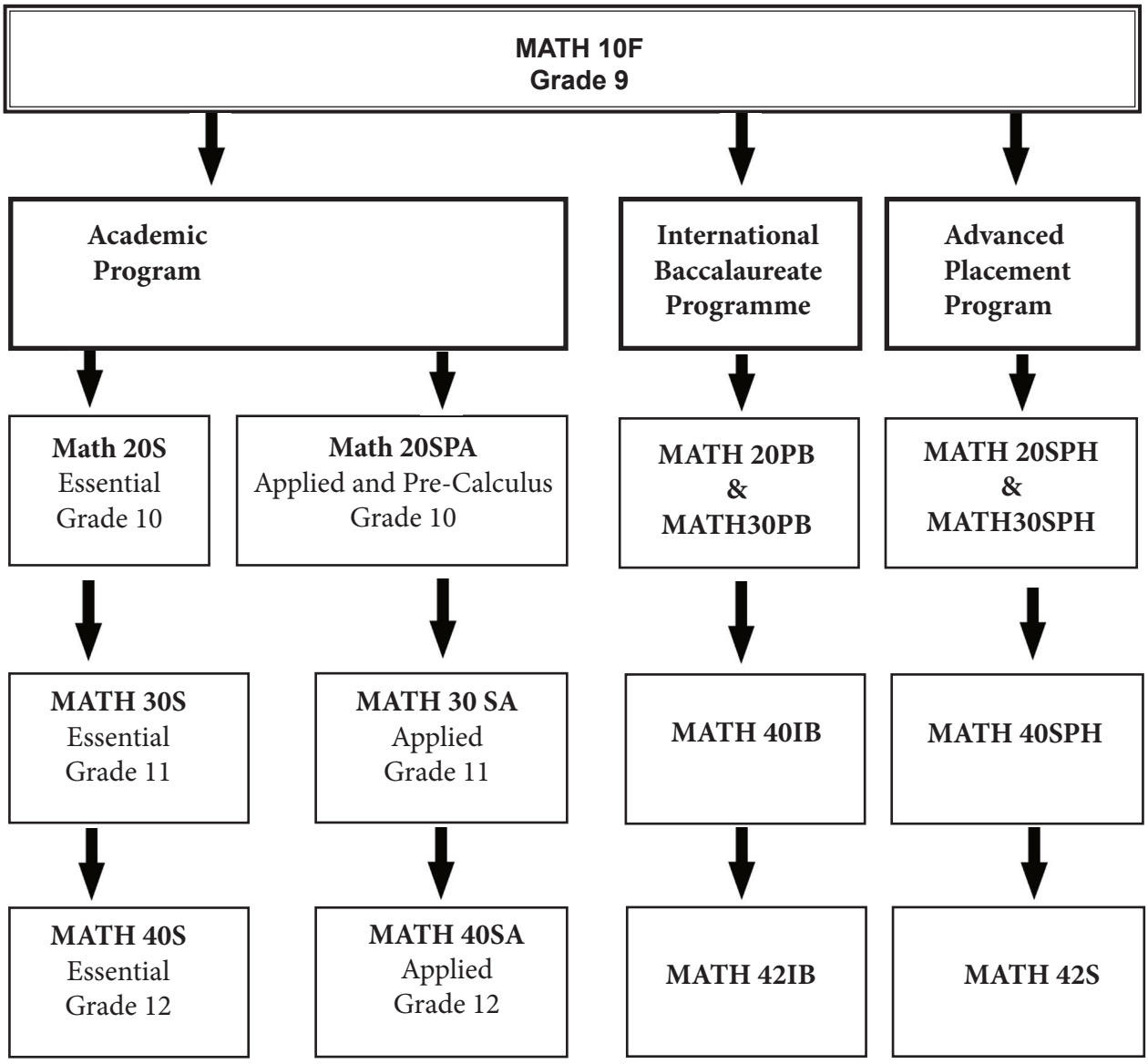
Grade 12

MATHEMATICS APPLIED - MA40SA
This course 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.

MATHEMATICS ESSENTIAL - MA40SS
This course is intended for student whose post-secondary planning does not include a focus on mathematics and science- related fields. Grade 12 essential Mathematics (40S) is a one-credit course consisting of two half-credits each emphasizing consumer applications, problem solving, decision-making, and spatial sense.

MATHEMATICS PRE-CALCULUS - MA40SP
This course is designed for students who intend to study calculus and related mathematics as part of post-secondary education. It builds on the topics studied in Grade 11 Pre-calculus Mathematics and provides background knowledge and skills for the study of calculus in post-secondary institutions.

Mathematics Programs
Recommended Pathways



Provincial Exams at all levels of Grade 12 Math Courses

NOTE:
More than 1 mathematics course may be taken at each grade level for more than 1 credit. (For example a student may take both MA20S and MA20SPA (for a total of 2 credits)

Advanced Math 45S and Calculus 45S may be taken provided students have registered for/or completed MA40SP.

SCIENCE

SCIENCE FOUNDATION - SC10F
SC10F is divided into four major units: Reproduction, Atoms and Elements, Nature of Electricity, and Exploring the Universe. The Reproduction unit involves the study of human reproduction and genetics. Atoms and Elements is an introduction to the basics of chemistry. The Nature of Electricity unit has students investigating static and current electricity. Exploring the Universe leads students through an exploration of the universe and the study of space science and technology.

SCIENCE FOUNDATION - SC20F
The SC20F program is composed of four major units: Dynamics of Ecosystems, Chemistry in Action, In Motion, and Weather Dynamics. Dynamics of Ecosystems has students examining ecosystem relationships, population dynamics, biodiversity and how human activities affect ecosystems. The Chemistry in Action unit is a continuation from SC10F's Atoms and Elements. Students will study chemical reactions, nomenclature basics, principles of acid-base chemistry, and the effects of chemical use in the environment. Basic kinematics along with the concepts of inertia, force, impulse and momentum are looked at during the In Motion unit. The complex relationships that influence weather and climate are pursued in the Weather Dynamics unit including the impact of human activities on our global climate.

BIOLOGY - BI30S
Students in BI30S will study the Human Body with respect to homeostasis, digestion and nutrition, the respiratory system, excretion and waste management, and concluding with the immune and nervous system. Students will also look at how technology has affected the wellness of the human body and resulting social issues.

CHEMISTRY - CH30S
Using the kinetic molecular theory, students will look at physical properties of matter, including phase changes and vaporization. Students will also be studying physical characteristics of gases, gas laws, chemical reactions, stoichiometry, solutions and their physical characteristics, and organic chemistry including IUPAC nomenclature. Included in their studies will be a look at how chemistry has affected our quality of life.

PHYSICS - PH30S
The PH30S course is divided into four major areas: Waves, Nature of Light, Mechanics and Fields. Some of the concepts studied in waves are the physical characteristics of waves, superposition of waves and wave interference. The concept of waves continues into the Nature of Light where light is looked at in terms of its wave characteristics and particle characteristics. Carrying on from the SC20F program, students will continue the study of kinematics during the Mechanics unit. To complete and overview of basic physics, students will address the concept of fields with respect to gravitational, magnetic, electric and electromagnetic fields. Included in their studies will be a look at how the relationship between physics and science and technology has influenced our quality of life.

SCIENCE CURRENT TOPICS - SC30S
Multidisciplinary topics based on current issues serve as the organizing themes for this course, in which scientific knowledge and its implications are presented in a unified manner, integrating the areas of biology, chemistry, physics, the geosciences and the space sciences. The course shifts the focus from teaching concepts and facts to teaching critical thinking and problem-solving skills developed through the study of a particular topic, from which key concepts and facts will evolve naturally from the context at hand.

BIOLOGY - BI40S
In this course, students are exposed to foundation concepts regarding the Biology of the world around us. The interdependence of life is a recurring theme in the course work. Students are expected to integrate information gained in previous units and apply that information throughout the semester. Topics of study include Ecology, Biological Diversity and Genetics. Specific emphasis will be placed on the use of Biotechnology including; genetically modified food, forensics, recombinant DNA technology, Human Genome Project and Gene Therapy.

CHEMISTRY - CH40S
Chemistry 40S students in this very comprehensive course will study five units consisting of Kinetics, Chemical Equilibrium, Acid-Base Equilibrium, Solubility Equilibrium and Oxidation-Reduction. Within these units, concepts such as factors affecting reaction rates, Le Chatelier's Principle, pH, buffers and electrochemical cells are a few that will be addressed. Throughout the program, students will gain an understanding of observation and inference in this experimental science.

PHYSICS 40S - PH40S
Students in this very comprehensive course will study four units consisting of Mechanics, Fields, Electricity and Medical Physics. Students will have been exposed to the elementary concepts of these units in PH30S and apply them to such new concepts as projectile motion, circular motion, work and energy, low Earth orbits, electric circuits and radiation.Throughout the program, students will gain an understanding of how science, technology and the environment are related in a physical sense.

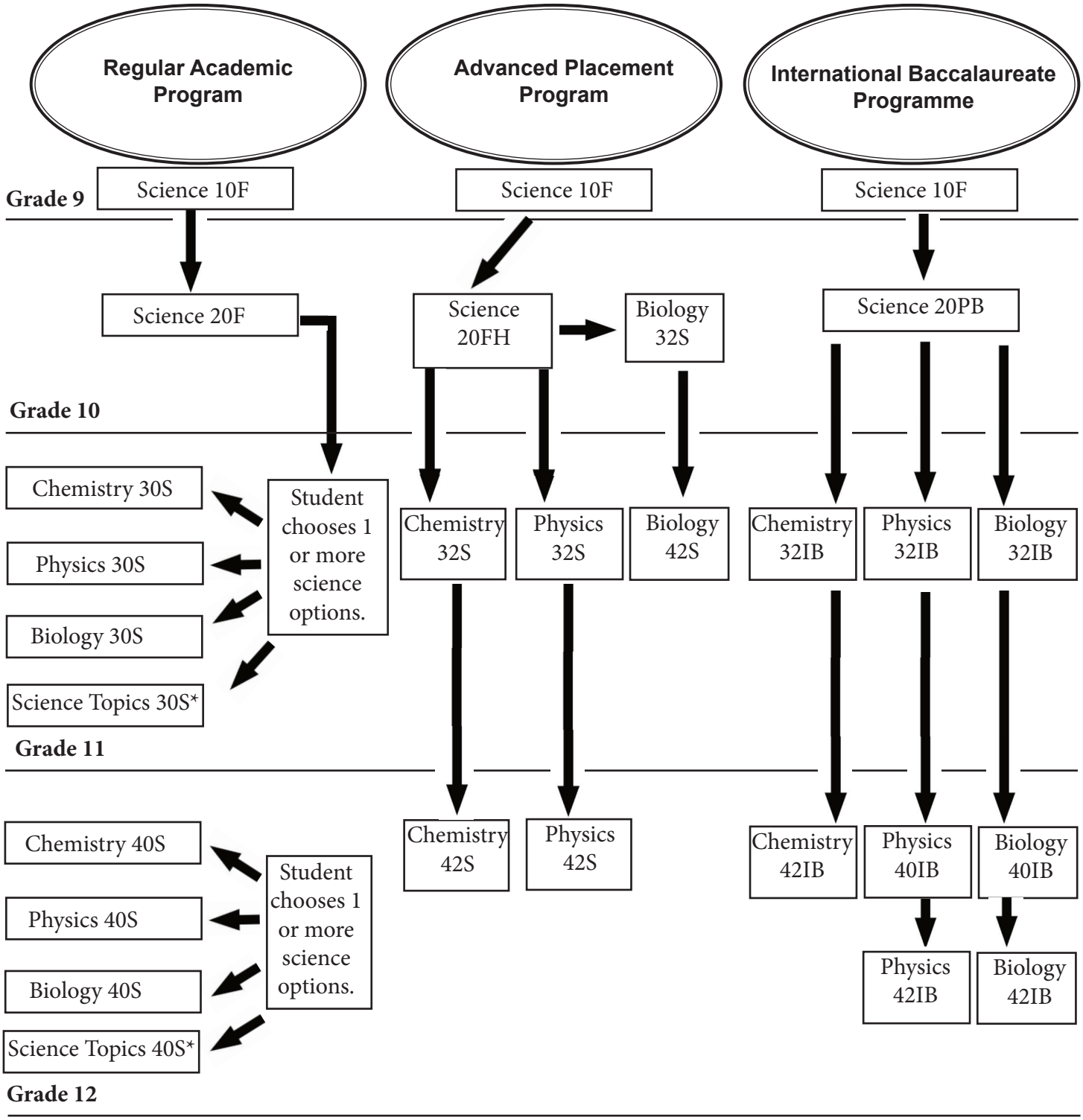
SCIENCE CURRENT TOPICS - SC40S
SC40S is the complement course to SC30S with concentration on topics in society, science and the environment. SC40S topics based on current issues; serve as the organizing themes for this course, in which scientific knowledge and its implications are presented in a unified manner, integrating the areas of biology, chemistry, physics, the geosciences and the space sciences.

PSYCHOLOGY 40S - PY40S
Psychology is the scientific study of behaviour and mental processes. It uses the scientific method to discover ways of understanding the complexities of human thought and behavior, as well as differences among people.

Studying psychology gives students lifelong skills such as dealing with issues proactively, solving problems, learning, and nurturing healthy relationships. It helps students understand themselves, and deal with issues in their own lives such as inner conflicts, relationships with parents and peers, and intimacy. It also helps students understand societal problems like addiction, violence, and prejudice.

This course exposes students to the major topics found in the field of psychology. It also emphasizes the issues that are of particular direct interest and relevance to students completing high school.

Science Programs



- Science Topics courses may not be recognized by post-secondary schools as a “science” requirement.
- In the AP program SC20FH includes advanced topics in Biology Chemistry and Physics that gives students a head start on their grade 11 science courses (BI32, CH32 and PH32) and better prepares them for the grade 12 Advanced Placement Science course. The Chemistry, Biology and Physics 42 courses are the equivalent of CH40S, BI40S and PH40S for scholarship purposes and university entrance and acceptance.

SOCIAL STUDIES

CANADA IN THE CONTEMPORARY WORLD - SS10F
In this course we will learn about how our government works, how people immigrate to Canada and become citizens and what makes us unique as Canadians. In addition, we will examine some basic Canadian geography as well as global issues such as poverty, working conditions in the developing world, war and environmental challenges. In our examination of each issue, we will discuss how we as Canadians can actively respond to these issues. This course is also offered in French where applicable.

GEOGRAPHY - GE20F
The main focus of this course is the environmental and political issues in geography that impact our lives and those of future generations within the context of North America. Major topics of discussion will include: the impact of energy use on our planet; sustainable development; issues related to trade and industry; food production and related issues; population growth and city planning; use of Global Positioning Systems and Geographic Information Systems. This course is also offered in French and as preparation for the IB program.

HISTORY OF CANADA - HI30F
This course engages students in historical inquiry and asking essential questions to focus on Canada from pre-contact times until the present. Canadian History emphasizes important skills and concepts in historical thinking and focuses on five major themes: First Nations, Métis and Inuit Peoples, French-English Duality, Identity, Diversity and Citizenship, Governance and Economics, and Canada and the World.

HISTORY OF WESTERN CIVILIZATION - HI40SW
Topics of study will focus on events that have impacted our society today. These will include an in-depth examination of Greek and Roman History, the founding of Western Religions, the Renaissance and Reformation, the French Revolution and Napoleon, and major events of the Twentieth Century including WWI and WWII.

LAW - LW40S
This course introduces students to all aspects of the Canadian justice system; however the primary focus is on criminal law. From arrest procedure to young offenders and the dilemmas of imprisonment, this course is taught using a variety of formats including case studies, debates, mock trials, guest speakers, and a visit to the law courts. Law 40S is an excellent foundation for students interested in pursuing criminology courses at the college or university level.

GLOBAL ISSUES: CITIZENSHIP AND SUSTAINABILITY – GI40S
Students examine the social, political, environmental and economic impact of a variety of current and emerging world issues such as media awareness, human trafficking, genocide, sustainability and gender issues. Students will also consider how every individual is connected to global issues. Part of their study will focus on quality of life locally, nationally and globally. Students will also choose a global issue and take action in their school or wider community. This course was formerly known as World Issues.

PHYSICAL EDUCATION

PHYSICAL EDUCATION - PE10F
The intent of the 10F course is to help Senior Years students develop the necessary skills for lifelong physical activity participation and provide students with the necessary knowledge to assist them in making appropriate decisions regarding the health issues facing youth. The skills acquired in this course are based on the fourteen basic movement skills and the five personal and social management skills in a combined and integrated approach blending physical education and health education.

PHYSICAL EDUCATION - PE20F
The intent of the 20F course is to help Senior Years students develop the necessary skills for lifelong physical activity participation and provide students with the necessary knowledge to assist them in making appropriate decisions regarding health issues facing youth. Topics such as fitness management, goal setting, cooperation, time management, and a myriad of physical and health related skills are taught under the five General Learning Outcomes of Movement, Fitness, Safety, Personal and Social Management and Healthy Lifestyle practices.

PHYSICAL EDUCATION - PE30F
This compulsory full-credit course is designed to help youth take greater ownership of their own physical fitness, to encourage them to seek out activities that interest them, and engage in active lifestyles into their futures. Students will study topics related to fitness management, mental health, substance use and abuse prevention, and the social impact of sport. The focus of this content will be on health and personal planning. These topics will make up the core 25% on-line component of the course content. Students will be required to develop and implement the remaining 75% of the course on their own time in a personal physical activity plan as part of the physical activity practicum. Students will be introduced to safety and risk management planning to minimize the associated risks of the activities they have chosen.
As part of earning a credit for this course, students will be required to submit a personal fitness portfolio containing elements such as a fitness plan, physical activity log, or journal entries. Students will be graded for completion of the course with a Complete or Incomplete designation.

PHYSICAL EDUCATION - PE40F
This compulsory full-credit course is designed to help youth take greater ownership of their own physical fitness, to encourage them to seek out activities that interest them and engage in active lifestyles in the future. Students will study topics related to fitness management, nutrition, sexual health, social/emotional health, and personal development. The focus of this content will be on health and personal planning. These topics will make up the core 25% on-line component of the course content. For the remaining 75% of the course, students will be required to develop and implement, on their own time, a personal physical activity plan as part of a physical activity practicum.
As part of earning a credit for this course, students will be required to submit a personal fitness portfolio containing elements such as a fitness plan, physical activity log, or journal entries. Students will be graded for completion of the course with a Complete or Incomplete designation.

NOTE: Both PE30F and PE40F will require parents/guardians to review the student's physical activity plan and sign a Parent Declaration and Consent Form acknowledging their approval of the chosen activities and acceptance of the responsibility for risk management, safety, and supervision. Parents/guardians will also be required to verify the entries of the student's physical activity log through a sign-off procedure. In some schools they will have an actual class where students can take PE30F. In these cases the student will do the same type of activities but the instructor will be responsible for setting up the program as is the case with any other in-school Phys. Ed. Class. Please see the individual school programs to see how each school is offering this course. These schools will offer the out-of-school model as well and students will be responsible for choosing the method they prefer. Students who are already involved in school sport or community sport should likely take the out-of-school model as these sports qualify for the out-of-school physical activity practicum.

Delivery models for PE30F and PE40F may look different between high schools. Please see the individual school programs for information on how they are delivering these programs.

CAREER EDUCATION: LIFE/WORK: (1.0 credit at each level or 0.5 Credit)
- Exploration 10S
- Planning 20S
- Building 30S
- Transition 40S

Students enrolled in Life/Work courses can expect to gain the skills necessary to secure employment, to be successful in the job/career of choice and to be productive citizens. Curriculum includes resume and cover letter construction, interview skill practice, communication and interpersonal skills development, personal management and transferable skills enhancement, the creation of employability portfolios, and a comprehensive study of workplace expectations.

The grade 11 and 12 courses will accommodate a work practicum. Grade 11 includes a 40-60 hour unpaid work practicum and Grade 12 includes a 60-80 hour unpaid work practicum Courses are designed to raise the level of confidence and self-esteem necessary to pursue successful endeavors in post-secondary life.

HOCKEY CANADA SKILLS ACADEMY

The philosophy of the St. James Assiniboia Hockey Academy is to provide students different paths to achieve academic and personal success. The program is designed to allow students the opportunity to further develop their hockey skills while not altering or sacrificing the provincial curriculum goals or expectations. The goals of the St. James Assiniboia Hockey Academy are consistent with other officially licensed HCSA franchises from across Canada, and include:

- Development of fundamentally sound hockey skills in individuals regardless of their skill level
- Development of confidence, leadership, and a positive attitude toward self and others
- Building of life skills such as commitment, dedication, accountability and teamwork
- Mentorship, coaching and development of personal fitness program
- Increasing academic achievement through involvement in a school athletic program
- Introduction of new players into the Minor Hockey System

The program is comprised of two components. On-ice skill development includes skating stride, passing and receiving, shooting, simulation and development of game tactics. Off-ice Development places emphasis on improving the overall fitness level of the players, as well as preparing their mind and body for optimal performance and lifelong healthy living.

HOCKEY CANADA SKILLS ACADEMY - HA11G
The course is comprised of two components. On-ice skill development includes skating stride, passing and receiving, shooting, simulation and development of game tactics. Off-ice Development places emphasis on improving the overall fitness level of the students and also includes components such as, Respect in Sport, Floorball, Sport Psychology, Nutrition, and Video Analysis of Skills. St. James Assiniboia Hockey Academy is designed for male or female hockey players wishing to improve their skills regardless of their current skill level.

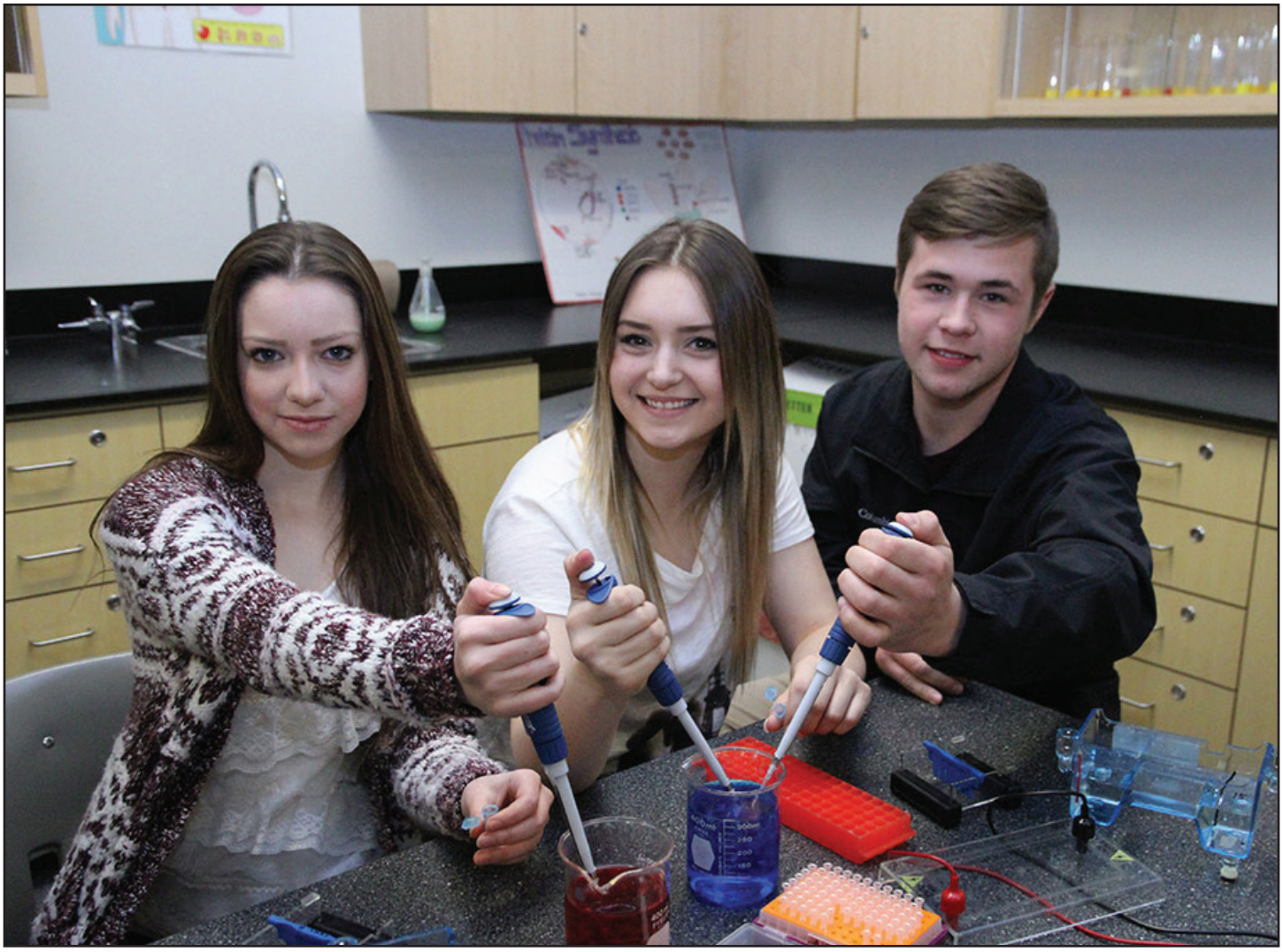
HOCKEY CANADA SKILLS ACADEMY - HA21G
This course is a continuation of HA11G. On-ice skill development builds on skills taught in HA11G. Off-ice development continues to emphasize the overall fitness level of the players and also includes; acquiring the IP Coaching Level, Floorball, Sport Psych, Nutrition and Video Analysis of Skills. It is designed for male or female hockey players wishing to improve their skills regardless of current skill level.

HOCKEY CANADA SKILLS ACADEMY - HA31G
This course is a continuation of HA21G. On-ice skill development continues to emphasize skill development and builds on skills taught in HA21G. Off-ice development continues to emphasize the overall fitness level of players and also includes; Coach Certification, Floorball, Volunteering to Coach, Sport Psych, Nutrition and Video Analysis of Skills. The course will be offering a coach/mentorship program along with an expectation of students developing a personal fitness program for on-ice conditioning.

HOCKEY CANADA SKILLS ACADEMY - HA41G
The 41G course builds on the previous St. James Hockey Academy courses where both on and off-ice individual skill development continues to be the focus. On the ice, players learn to execute individual skills as well as advanced 3 vs 3 team tactics. In the off-ice program, students are provided with Referee Training, Floorball, Coaching within the Academy, Sport Psych, Nutrition, Video Analysis of Skills, Agility and Strength Training.

For more information on programming visit: ***www.stjameshockeyacademy.ca***

Collège Sturgeon Heights Collegiate



1900 Portage Avenue, Winnipeg, MB R3J 0J1

Phone: 204-888-4867 **Fax: 204-8890830**

http://sturgeonheights.sjsd.net/

Collège Sturgeon Heights Collegiate Course Code Listing

Grade 9 Courses	Course Code
Academic - English (Grade 9)	
Conflict and Peace in the 20th Century	SS11G
English	EN10F
English as an Additional Language	EAL11G
French	FR10F
Family Studies	FA10F
Geography IB	GE20PB
Hockey Academy	HA11G
Mathematics	MA10F
Math - Transitional	MA10FT
Math- Real Life Math Topics	MA11G
Physical Education	PE10F
Reading is Thinking	RD10S
Science	SC10F
Social Studies	SS10F
Spanish	PE30F
Academic French Immersion	**Course Code**
Francais	FR10FX
Géographie Pre-IB	GE20PBX
Mathématiques	MA10FX
Sciences	SC10FX
Sciences Humaines	SS10FX
Fine Arts (Grade 9)	**Course Code**
Art	VA10SS
Band	MB10SS
Band (Jazz)	MJ10SS
Drama	DR10SS
Music Choral (lunch)	MC10SS
Music Wind Ensemble	ME10SS
Musical Theatre (after school) (0.5 credit)	MT15SS
Technology- Vocational Education (Grade 9)	**Course Code**
Culinary Arts	FS10SS
Digital Technology (0.5)	DT15S
Electronics (0.5)	EL15SS
Graphic Arts (0.5)	GA15S
Hairstyling: Introduction to Hairstyling	HS20S
Introduction to Aviation	AV10S
Exploration of Jewellery and Metalsmithing	JM10S
Media Production (0.5)	MP15S
Photography (0.5)	PD15S
Power Mechanics (0.5)	PM15S
Welding (0.5)	WE15S
Wood Technology (0.5)	WT15G

Information and Communication Technology (Grade 10)	Course Code
Computer Science	CS20S
Digital Technology (Design)	DT20S

Grade 10 Courses	Course Code
American History	HI20G
English	EN20F
English as an Additional Language	EAL21G
Essentials in Math	MA20SS
Family Studies	FA20F
First Nations, Métis and Inuit Studies	FM21G
French	FR20F
Geography	GE20F
Hockey Academy	HA21G
Math- Intro to Applied & Pre-Calculus	MA20SPA
Physical Education	PE21G
Reading is Thinking	RD20S
Science	SC20F
Academic French Immersion (Grade 10)	**Course Code**
Francais	FR10FX
Francais PB	FR20PBX
Géographie	GE20FX
Mathématiques au Quotidien	MA20SX
Mathématiques Pré-Calcul /appliqué	MA20SPAX
Sciences	SC20FX
Pre-French Immersion I.B. (Grade 10)	**Course Code**
Francais IB	FR30PBX
Histoire IB	HI30PBX
Mathématiques Pré-Calcul Pre- IB	MA20PBX
Mathématiques Pré-Calcul IB	MA30PBX
Sciences Pre- IB	SC20PBX
Fine Arts (Grade 10)	**Course Code**
Art	VA10SS
Band	MB20SS
Band (Jazz)	MJ20SS
Dramatic Artsw	DR20SS
Jazz Combo	JC20SS
Music Choral (lunch)	MC20SS
Music Wind Ensemble	ME20SS
Musical Theatre (after school) (0.5)	MT25SS
Theatre Production	TP20SS
Vocal Jazz	VJ20SS
Technology-Vocational Education (Grade 10)	**Course Code**
Culinary Arts	FS20SS
Electronics	EL20SS
Graphic Arts	GA20S
Hairstyling: Basic Hairstyling	HS20SA
Hairstyling: Basic Haircutting and Thermal Styling	HS20SB
Introduction to Aviation	AV20S
Introduction to Jewellery and Metalsmithing	JM20S
Media Production: Broadcasting	MP20SA
Media Production: Broadcasting Tech.	MP20SB
Photography	PD20S
Power Mechanics	PM20S
Welding	WE20S
Wood Technology	WT20G

Grade 11 Courses	Course Code
Academic - English (Grade 11)	
Biology	BI30S
Chemistry	CH30S
Current Topics in Science	SC30S
English Comprehensive	EN30SC
English Literary Focus	EN30SL
English as an Additional Language	EAL31G
Family Studies	FA30S
French	FR30S
Hockey Academy	HA31G
History of Canada	HI30S
Math - Essentials	MA30S
Math - Applied	MA30SA
Math - Pre-Calculus	MA30SP
Physical Education (on-line)	PE30F
Phys. Ed - Basketball Essentials	PE30FBB
Phys. Ed - Football Essentials	PE30FFT
Phys. Ed - Girls Fitness	PE30FIF
Phys. Ed - Elite Training	PE30FT
Phys. Ed - Sustainable Wilderness	SW31G
Physical Geography	GE30S
Physics	PH30S
World Religions	WR31G
Academic French Immersion	**Course Code**
Biologie	BI30SX
Chimie	CH30SX
Français	FR30SX
Histoire	HI30FX
Mathématiques Pré-Calcul	MA30SPX
Physique	PH30SX
International Baccalaureate	**Course Code**
Biology IB	BI32IB
Chemistry IB	CH32IB
Chemistry IB	CH42IB
Computer Science	CS32IB
Economics IB	MC10SS
English IB	ME10SS
French IB	FR40IB
History IB - History of the Americas	HI32IB
Math - Pre Calculus IB	MA40IB
Physics IB	PH32IB
Sport, Exercise, and Health Science	SE32IB
Theory of Knowledge IB (0.5)	TK32IB
Visual Arts IB	AR32IB
French Immersion IB	**Course Code**
Chimie IB	CH32IBX
Français	FR40IBX
Mathématiques Pré-Calcul	MA40IBX

Grade 11 Courses (Cont'd)	Course Code
Fine Arts	
Art	VA30SS
Band	MB30SS
Band (Jazz)	MJ30SS
Drama	DR30SS
Jazz Combo	JC30SS
Music Choral (lunch)	MC30SS
Music Wind Ensemble	ME30SS
Musical Theatre (after school) (0.5)	MT35SS
Theatre Production	TP30SS
Vocal Jazz	VJ30SS
Technology- Vocational Education	**Course Code**
Aviation: Commercial Pilot	AP30S
Aviation: Meteorology/Navigation	AM30S
Culinary Arts: Garde Manager	FS30SSA
Culinary Arts: Patisserie and Baking	FS30SSB
Culinary Arts: Veg, Fungi, Starches, Farinaceous	FS30SSC
Culinary Arts: Yeast Dough Products	FS30SSD
Electronics: Semicond. Signal Devices	EL30SSA
Electronics: Residential Wiring	EL30SSB
Graphic Arts: Design	GA30SSA
Graphic Arts: Print Production	GA30SSB
Hairstyling: Related Salon Services	HS20SS
Hairstyling: Intermediate Haircutting & Barber	HS30S
Hairstyling: Haircolouring	HS30SB
Hairstyling: Intermediate Hairstyling	HS30SB
Jewellery and Metalsmithing: Lost Wax Casting	JM30SA
Jewellery and Metalsmithing: Basic Construction	JM30SB
Jewellery and Metalsmithing: Forging and Forming	JM30SC
Jewellery and Metalsmithing: Production	JM30SD
Media Production: TV Production	MP30SA
Media Production: Write and Perform	MP30SB
Photography	PD30S
Power Mechanics: Engine Fundamental Service	PM30SSA
Power Mechanics: Chassis Fundamental Service	PM30SSB
Power Mechanics: Drivetrain Fundamental Service	PM30SSC
Power Mechanics: Special Applications	PM40SS
Welding: Metal Design Fab Oxy-Acet	WE30SSA
Welding: GMAW (MIG) Procedures	WE30SSB
Welding: SMAW (ARC) Procedures	WE30SSC
Wood Technology	WT30SA
Wood Technology	WT30SB
Information and Communication Technology	**Course Code**
Computer Science	CS30S
Other	**Course Code**
High School Apprenticeship Option	AO30G
Life Work/ Transition (work experience)	LF30S

Grade 12 Courses	Course Code
Academic - English (Grade 12)	
Biology	BI40S
Chemistry	CH40S
Current Topics in Science	SC40S
English Comprehensive	EN40SC
English Literary Focus	EN40SL
English 40 (English for Academic Success)	EN40SA
English Literary Forms	EN40SLF
English Transactional Forms	EN40STF
Cinema as Witness to Modern History	CW40S
Family Studies	FA40S
First Nations, Métis and Inuit Studies	FM40S
French	FR40S
Global Issues	G140S
Hockey Academy	HA41G
Human Geography	GE40S
History Western Civilization	HI40SW
Law	LW40S
Math - Advanced (Linear Algebra) (0.5)	AM45S
Math - Calculus (0.5)	CL45S
Math - Applied	MA40SA
Math - Pre-Calculus	MA40SP
Math - Essentials	MA40S
Physical Education	PE40F
Phys. Ed - Basketball Essentials	PE40FBB
Phys. Ed - Football Essentials	PE40FFT
Phys. Ed - Girls Fitness	PE40FIF
Phys. Ed - Elite Training	PE40FT
Physical Education Leadership	PE41GL
Physics	PH40S
Psychology	PY40S
Academic French Immersion	**Course Code**
Biologie	BI40SX
Chimie	CH40SX
Enjeux Mondiaux – Citoyenneté/Durabilité	GI40SX
Français	FR40SX
Mathématiques Quotidien	MA40SX
International Baccalaureate	**Course Code**
Biology IB (HL)	BI40IB
Biology IB (HL)	BI42IB
Computer Science IB	CS42IB
Economics IB (HL)	EC40IB
Economics IB (HL)	EC42IB
English IB (HL)	EN40IB
English IB (HL)	EN42IB
French IB	FR42IB
History IB (HL)	HI42IB
Physics IB (HL)	PH40IB
Physics IB (HL)	PH42IB
Sport, Exercise, and Health Science	SE42IB
Theory of Knowledge IB (0.5)	TK42IB
Mathematics IB	MA42IB
Visual Arts IB	AR42IB
French Immersion IB	**Course Code**
Français IB	FR421BX
Mathématiques Pré-Calcul IB	MA40SPX

Grade 12 Courses (Cont'd)	Course Code
Fine Arts	
Art	VA40SS
Band	MB40SS
Band (Jazz)	MJ40SS
Drama	DR40SS
Jazz Combo	JC40SS
Music Choral (lunch)	MC40SS
Music Wind Ensemble	ME40SS
Musical Theatre (after school) (0.5)	MT45SS
Theatre Production	TP40SS
Vocal Jazz	VJ40SS
Technology- Vocational Education	**Course Code**
Aviation: Advanced Aviation	AV40S
Aviation: Safety Human Factors	AS40S
Aviation: Pilot Training Lab	AP40S
Culinary Arts: Stocks, Soups and Sauces	FS40SA
Culinary Arts: Breakfast and Dairy	FS40SB
Culinary Arts: Menu Planning and Food Costing	FS40SC
Culinary Arts: Meats, Poultry, Fish and Seafood	FS40SD
Electronics: Microprocessors	EL40SA
Electronics: Adv. Residential Wiring	EL40SB
Electronics: Adv. Elec. Wiring Methods	EL40SC
Electronics: Robotics	EL40SD
Graphic Arts: Advanced Desktop Publishing	GA40SSA
Graphic Arts: Advanced Prepress	GA40SSB
Graphic Arts: Advanced Print Production	GA40SSC
Graphic Arts: Applied Print Media	GA40SSD
Hairstyling: Chemical Texture Services	HS40SC
Hairstyling: Hairstyling and Colouring	HS40SSA
Hairstyling: Haircutting and Chemical Texture	HS40SSB
Hairstyling: Salon Operation	HS40SSC
Hairstyling: Certificate Preparation	HS40SSD
Jewellery and Metalsmithing: Advanced	JM40SA
Jewellery and Metalsmithing: Gem Setting	JM40SB
Jewellery and Metalsmithing: Advanced Gem	JM40SC
Jewellery and Metalsmithing: Repair	JM40SD
Jewellery and Metalsmithing: Studio	JM40SG
Media Production: Electronic Communication	MP40SA
Media Production: Literacy	MP40SB
Photography	PD40S
Power Mechanics: Auto Electrical Systems	PM40SSA
Power Mechanics: Vehicle Systems Part 1	PM40SSB
Power Mechanics: Vehicle Systems Part 2	PM40SSC
Power Mechanics: Diagnostic Strategies	PM40SSD
Welding: GMAW (MIG) Procedures	WE40SSA
Welding: Advanced SMAW (MIG) Procedures	WE40SSB
Welding: Metal Design Fabrication	WE40SSC
Welding: Specialities Qualifications	WE40SSD
Wood Technology A	WT40SA
Wood Technology B	WT40SB
Information and Communication Technology	**Course Code**
Computer Science	CS40S
Other	**Course Code**
High School Apprenticeship Option	AO40G
Life Work/ Transition (work experience)	LF40S

Collège Sturgeon Heights Collegiate

ENGLISH

READING IS THINKING - RD10S
A transitional English Language Arts course designed to prepare grade 9 students for high school. Students will be provided with strategies to improve reading, writing and comprehension skills across the curriculum. Mentors, grade 11 and 12 students, will also assist learners in organization, study skills and establishing homework routines.

READING IS THINKING – RD20S
An English Language Arts course designed to focus on basic literacy skills for grade 10 students. Students will be provided with strategies to improve reading, writing and comprehension skills across the curriculum. Students will also be assisted with organization, study skills and reinforcing homework routines.

ENGLISH LANGUAGE AND LITERARY FORMS - EN40SLF
Students cannot sign up for both EN40SLF and EN40SLC.
(Language, Literature, and Culture) This course provides for an in-depth examination and study of language forms, various genres in literature with a specific emphasis on the cultural mosaic contained in literature. Critical analysis of such literary forms as the short story, novel, poetry and drama are undertaken with the express purpose of determining what makes each literature type unique. For instance, what makes a novel what it is and/or what devices of language might an author use in the composition of the novel?

ENGLISH LANGUAGE AND TRANSACTIONAL FORMS- EN40STF
(Language, Media, and Culture)
This course focuses on several distinct transactional forms, namely those most frequently associated with the world of business (e.g. business letter, report, interview), education (e.g. essay forms, analysis and synthesis), research (e.g. data collection and interpretation), journalism (e.g. the five W's), consumerism and the media (e.g. advertising, propaganda) and social interaction (e.g. legalese, cultural diversity).

ENGLISH AS AN ADDITIONAL LANGUAGE - EAL11G
This course provides intensive opportunities for learners whose first language is not English to develop basic interpersonal communication skills in Speaking, Listening, Reading and Writing.

ENGLISH AS AN ADDITIONAL LANGUAGE - EAL21G
Learners in this course begin addressing content area language and related learning strategies and skills to develop initial proficiency in cognitive academic language proficiency. Content-based thematic units that support curriculum based concepts, vocabulary, and language conventions are used with an emphasis on the development of competency in Reading, Writing, Speaking and Listening.

ENGLISH AS AN ADDITIONAL LANGUAGE - EAL31G
This course moves beyond EAL21G focusing on language used with minimal contextual support. EAL31G incorporates content-based thematic units to support curriculum based concepts, vocabulary, and language conventions.

ENGLISH AS AN ADDITIONAL LANGUAGE – ADVANCED EN40SA
This course is designed for advanced-level English as an additional language students who wish to further develop their academic English language skills required for success in senior years and post-secondary education. In this course, students will develop skills such as interpreting and producing subject-area texts through various forms of student-led inquiries, and classroom interactions. They will interact with content drawn from various subject areas, such as science and business, to improve reading, writing, speaking, and listening, and to enhance their use of learning strategies.

MATHEMATICS

TOPICS IN MATH - MA11G
REAL LIFE TOPICS IN MATHEMATICS FOR GRADE NINE
"When are we ever going to use this?" "Why do we have to learn this?" If you have ever asked these types of questions, this math course is for you! We will learn how mathematics relates to the real world in areas such as art, architecture, nature, science, history, cryptography, war, music, amusement parks, culture, etc. This project-based course will include self-assessment, peer assessment and/or teacher assessment using rubrics. There will be no tests or final exam. The final assessment will be comprised of a portfolio and a research project on the real life mathematical application of your choice.

TRANSITIONAL MATH and GRADE 9 MATH Combination - MA10FT & MA10F
These courses are designed for students who have struggled with Math in previous years and would benefit from additional time to first review previous content before learning the grade 9 content. Students will take math in both semesters and receive two credits. The additional practice helps students make the transition from Grade 8 mathematics to Grade 9 mathematics.

CALCULUS & ADVANCED MATH - CL45S and AM45S
This is an introductory course that will cover higher level math topics from the first year university courses Calculus and Linear Algebra. Topics include: limits, derivatives, applications of derivatives, integrals, complex numbers, matrices, and vector geometry. This course is taught in English but is available to both English and French Immersion students. This course is ideal for any students who have enrolled in MA40SP(F) and who plan to enroll in university facilities such as Agriculture & Food Sciences, Arts (Economics), Engineering, Management, Pharmacy, Science (Mathematics, Actuary, Biochemistry, Chemistry, Computer Science, Ecology, Zoology, Statistics) etc. There are no exemptions for the final exam. Students who enroll in the course will earn two provincial half credits – 0.5 for Calculus and 0.5 for Advanced Math.

MODERN LANGUAGES

FRENCH FOUNDATIONS - FR10F
Basic French courses are taught in French. Students will participate in a variety of activities to further their linguistic competence. Students will have the opportunity to begin practicing their reading, writing and communication skills.

FRENCH FOUNDATIONS - FR20F
This course follows the same objectives as 10G. Students will find that the course material is at a more challenging level. A communicative - experiential approach to the French language is emphasized.

FRENCH - FR30S
This course is a continuation of French 20G with emphasis on reading, writing and communication skills as well as a cultural component.

FRENCH - FR40S
This course is a continuation of French 30S with emphasis on reading, writing and speaking skills. Fluency and comprehension will be further developed through varied enrichment activities.

SPANISH - SP10F
A desire to learn a new language and discover new worlds, work hard and develop one`s second language acquisition skills will all help in this course. This is a beginner`s course in Spanish is based on language skills in the areas of written and oral production as well as written and oral comprehension. The conversational aspect is highly encouraged so students may learn to communicate as well as possible and as soon as possible. Students will be exposed to American and European Spanish, although emphasis is on the former. In addition, students will be introduced to Hispanic art, music and culture. Students seeking to access IB programming must still take either Français (Immersion) or Basic French programming.

SPANISH – SP20F
In this course, students will continue to develop their language skills in the areas of written and oral production, as well as, written and oral comprehension.

SCIENCE

GRADE 11

SPORTS, EXERCISE AND HEALTH SCIENCE – SE32SIB
The SEHS course incorporates the disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health. A combination of syllabus content and experimental work provides the opportunity for students to acquire the knowledge and understanding necessary to apply scientific principles and analyze human performance. The comprehensive curriculum provides excellent preparation for university courses including those specifically related to Sport, Sports Science or Physical Education. This course is available to all students both in the regular Academic stream and IB programs.

GRADE 12

SPORTS, EXERCISE AND HEALTH SCIENCE – SE42SIB
The SEHS course has strong international dimensions such as international sporting competition and the international bodies that regulate them. Ethical issues that exist within sporting competitions are considered. The comprehensive curriculum provides excellent preparation for university courses including those specifically related to Physiotherapy, Occupational Therapy, Sports Science or Physical Education curriculum provides excellent preparation for university courses including those specifically related to Sport, Sports Science or Physical Education.

SOCIAL STUDIES

GRADE 9

CONFLICT AND PEACE IN THE 20th CENTURY - SS11G
The focus of this course is twofold. First, students will engage in an in-depth study of several of the major global conflicts during the twentieth century. There will be a special focus on World War I, World War II, the conflict in Vietnam and several of the genocides that occurred during this timeframe. Alongside the study of conflict, an equal amount of time will be dedicated to peace studies. Significant areas of focus will be the historic peace movement, how to promote and maintain peace on a local and global scale and an investigation into the obstacles to peace.

FAMILY STUDIES – FA10G
The Grade 9 Family Studies course is focused on self-management. The following aspects are studied in the course: family relationships, human needs, self-concept versus self-esteem, personal development, communication, conflict, friendships, relationships and diversity in society.

GRADE 10

AMERICAN HISTORY - HI20G
This course will examine a number of issues such as slavery, the American Revolution and Civil War. The primary area of focus will be on the twentieth century including events such as World War I and World War II, the Great Depression, Kennedy's assassination, the war in Vietnam, Watergate, the KKK and the Civil Rights Movement. The course will conclude by examining the wars in Iraq and America's historical interaction with Canada.

FAMILY STUDIES - FA20G
The Grade 10 Family Studies course focuses on child development from conception to preschool. There is an emphasis on human development including reproduction, pregnancy and growth and development until age 4. This course may include a plan for the operation of a childcare centre. It also involves the “Baby Think it Over” program.

FIRST NATIONS, INUIT AND METIS STUDIES - FM21G
In this course we will focus on the unique perspectives and philosophies of Aboriginal peoples. We will explore Aboriginal worldview, Aboriginal societies before and after contact with Europeans, and the impact of Canadian government policies (e.g. Reserve system, Indian Act, Residential Schools, etc.). Field trips, speakers and workshops will be offered to better understand the history of Aboriginal peoples.

GRADE 11

ECONOMICS – EC32IB
Do you ever wonder about how firms and individual make decisions about buying and selling and what price to charge? Do you have questions about supply and demand? Are you interested in a career in Human Resources, Marketing, Commerce, Financial Planning, Entrepreneurship, Accounting or Actuarial Sciences? Do you eventually want to be able to understand a little about the current financial crisis? Economics could be the right course for you. This course is open to all grade 11 and 12 students at Collège Sturgeon Heights Collegiate. This course is available to all students both in the regular Academic stream and IB programs.

FAMILY STUDIES – FA30S
The Grade 11 Family Studies course focuses on school-aged children and the influence of adult relationships. Some questions we’ll look into include: Why do kids always ask “why”? How do different parenting techniques influence a child? How does stress in childhood affect development? Why are games an important aspect of learning? The grade 11 course may include the opportunity to work in community schools throughout the semester as a practical approach to growth and development for school-aged children.

PHYSICAL GEOGRAPHY - GE30S
Ever wonder what causes a tornado? How can we build cities to resist the massive force of an earthquake? Why is it so difficult to predict the weather? In this course students will find answers to these questions by exploring the systems of the Earth through documentaries, readings and current world events. Topics of study include hurricanes, volcanoes, climate change, ecosystems, and weather, as well as a number of other natural disasters.

WORLD RELIGIONS - WR31G
The goal of this course is for students to foster an appreciation of the various religious traditions practiced by peoples throughout the world. It is not meant to confront or change a student’s own beliefs, but rather to provide students with an objective appreciation for the religions studied. This will be achieved through a comparative study of the beliefs and practices of major world religions and their contributions to each other. Though some time will be dedicated to the study of traditions that are not as widespread, we will focus primarily on Hinduism, Buddhism, Judaism, Christianity and Islam. A significant amount of time will be dedicated to assessing the impact religion has had on world issues throughout history, with a special focus on current global events.

GRADE 12

ECONOMICS – EC42IB
This course goes beyond the firm and the individual and looks at national economies, international trade, and development economics. At the end of the course, you will understand different philosophies directed toward making the economy grow, how and why there is unemployment, how demand and supply work in the macro economy and how inflation works. You will learn why trading with other countries is necessary if we all are to benefit and be able to show how everyone benefits. Finally, you will study development economics, looking at barriers to growth, development strategies, foreign investment and aid. This course is the final portion of the high level IB curriculum.

FAMILY STUDIES - FA40S
Family Studies examines the individual in society and the building of relationships, with an emphasis for preparing for the future. Topics of study include family and personal relationships, personal development and communication, decision making, sexual health and education, living on one's own, and facing life's challenges. Emphasis is placed on gaining key life skills necessary for the transition to adulthood.

CINEMA AS WITNESS TO MODERN HISTORY - CW40S
Students will view films of various genres in order to reflect critically on cinematic representation of historical events, figures and developments of the twentieth century. Students will hone the historical thinking skills they learned in grade 11 Canadian History. Students will conduct research into a variety of historical sources in order to identify interpretation and error in the historical films they examine. In this course, students will combine historical study with film criticism in order to develop critical thinking skills. The development of critical thinking skills will involve keeping a screening journal, conducting film reviews and criticisms and by conducting film comparisons of two films on the same subject matter. Written response will be a key component to this course.

FIRST NATIONS, INUIT AND METIS STUDIES – FM40S
This course will focus on the issues that are affecting Aboriginal communities today. Topics covered include: The Red Power movement and political re-birth, struggles for the land (e.g. Oka, Ipperwash), health, justice, and other pathways to renewal. Students will participate in field trips, hear speakers and attend workshops to better understand the contributions of Aboriginal peoples to Canadian society. Students are not required to take First Nations, Inuit and Métis Studies 21G before this course, but it is recommended.

HUMAN GEOGRAPHY - GE40S
Human geography looks at the links between people and our environment by studying current world issues from a geographical perspective. Topics covered in this course include the global food crisis and reasons for hunger, the effect of AIDS on population, challenges facing people in cities, and unsustainable resource use. We examine issues in both the developed and developing world, and seek to understand how our choices affect those throughout the world as well as future generations.

PSYCHOLOGY - PY40S
Psychology is the scientific study of behaviour and mental processes. It uses the scientific method to discover ways of understanding human thought, behaviour, and the differences among us. This course will expose students to the major themes of psychology such as the study of the brain, consciousness and psychological disorders. In addition, we will look at motivation, how we learn, and how and why our personalities differ. Documentaries, projects and class discussions will be central to this course.

PHYSICAL EDUCATION

HUMAN PERFORMANCE – PE21G
This course is designed to provide an in-depth study into the science of human performance. The human body's physiological systems are a complex interconnected framework between the brain and nervous system. The purpose of this course is to give students a clear picture of how those physiological systems work together to maximize human performance. Students will use their knowledge of various aspects of exercise science such as biomechanics, kinesiology, fitness testing, injury treatment and prevention, and nutrition to develop a greater understanding of how the interaction between brain and nervous system leads to mastery in high performance activities.

GIRLS FITNESS – PE30FF/40FF
This full-credit course meets the requirements of the compulsory PE 30F and PE40F and is designed to help girls in grade 11 or 12 get a better understanding of how to work out on their own, eat a healthy diet, and stay active. Throughout the course the girls will be introduced to different types of work outs and different ways they can stay healthy. Students will also study topics related to fitness management, mental health, substance use and abuse prevention, and the social impact of sport.

SUSTAINABLE WILDERNESS-SW31G
Environmental crisis and related issues continue to dominate both our present and future. At no time in history has the topic been more important than now. Our future and that of future generations will be impacted by the education, guidance and experiences of our youth. By providing opportunities for education, guidance and self-reflection, the Sustainable Wilderness Education program is committed to developing passionate and skilled individuals who care about making a difference for sustainable outdoor environments. Through the development of a deep appreciation for the Earth and the importance of sustainability, students will attain the skills and attitudes needed to enrich both the lives of themselves and others. The aim of the Sustainable Wilderness Education course is to allow students to develop the skills and attitudes necessary to appreciate, enjoy, feel comfortable and if necessary, survive in the Canadian outdoors.

BASKETBALL ESSENTIALS – PE30FBB
This course is designed to help youth take greater ownership of their physical fitness. Students will study topics related to fitness management, mental health, substance use and abuse prevention, and the social impact of sport. These topics will make up the core 25% IN-class component of the course content. An additional 25% IN-class component of the course will be activity-based, devoted to exploring specific game strategies, theories of coaching, historical perspectives, training techniques in the sport of Basketball. Students will be required to develop and implement, on their own time, a personal physical activity plan as part of a physical activity practicum. Students will be introduced to safety and risk management planning to minimize the associated risks of the activities they have chosen. As part of earning a credit for this course, students will be required to submit a personal fitness portfolio containing elements such as a fitness plan, physical activity log, or journal entries.

FOOTBALL ESSENTIALS – PE30FFT
Same description as above with the focus being on Football.

BASKETBALL ESSENTIALS (ADVANCED) - PE40FBB
Students will continue their exploration of specific game strategies, theories of coaching, historical perspectives, training techniques in the sport of Basketball.

FOOTBALL ESSENTIALS (ADVANCED) – PE40FFT
Same description as above with the focus being on Football.

Elite Training In-School Physical Education – PE30FT/40FT
This full credit course meets the requirements of the compulsory PE 30F and PE 40F and will further develop the student's athletic skills by improving their overall physical fitness. It is intended for the individual who wants to develop a deeper understanding of fitness, health and motivation and for the enthusiast who wants to know why and how the body responds to exercise. Throughout the course the students will be introduced to different types of work outs and different ways they can stay healthy. Students will also study topics related to fitness management, mental health, substance use and abuse prevention, and the social impact of sport.

PHYSICAL RECREATIONAL LEADERSHIP - PE41GL
This course is designed to help students develop their individual and group management skills through a wide range of real-life situations and experiences. The goal is to become more confident in planning, organizing and administering activities in their school and community.
When students take ownership and assume the responsibilities of their own learning and organization, they develop the necessary leadership skills that will make them successful in future pursuits. With a noticeable lack of quality leaders, qualified coaches and officials in all communities the hope is to provide more students with an opportunity to develop the confidence and interest as future leaders to stay involved in coaching, teaching, officiating and sports administration after leaving school.

FRENCH IMMERSION / L'IMMERSION FRANÇAISE

The French Immersion program at the high school level seeks to continue to develop the immersion student into a functionally bilingual person. Language mastery will be determined through written and oral production as well as written and oral comprehension. Students will develop the skills necessary to communicate both personally and professionally in the French language. All courses are taught completely in French. Students who wish to graduate with a diploma in French Immersion must have completed a minimum of 14 credits in the French language. Please consult Student Services personnel to clarify details on the distribution of these credits.

***NOTE:** Course codes ending in the letter "X" are the appropriate selection for immersion students

FRANÇAIS - FR10FX
Students will be exposed to a variety of literature, which covers several genres. In addition, students will be required to pay attention to the mechanics of their language in a very detailed and active manner. Language mechanics will be explored through an explicitly grammatical as well as contextually integrated manner.

FRANÇAIS - FR20FX
Students will continue to be exposed to a variety of literature in various genres. Students will use a variety of materials to achieve success, including plays, novels, short stories, magazine articles and poetry. Students will continue to deprogram themselves out of common errors while at the same time exploring how to answer analytical questions.

FRANÇAIS - FR30SX
This course continues to develop the skills studied in FR20FX. The literature and the works covered will be more developed than at previous levels. Students will be required to prepare oral and research presentations and written essays, which demonstrate a greater grasp of the language. Students will study a minimum of one play and one novel. Students will continue to develop mastery of analytical questions, learn how to approach critical texts. Additionally, students will receive an introduction to persuasive texts.

FRANÇAIS - FR40SX
This course continues to hone students' French skills. Students will continue to do work from a variety of sources, only at a more demanding level. Students will continue with analytical and critical questions. Students will demonstrate mastery in analytical and critical questions as well as thorough competency in persuasive texts.

MATHÉMATIQUES
High school students must complete a minimum of four courses in mathematics, one at each level. Immersion students must complete MA10FX; MA20SX OR MA20SPX; MA30SX OR MA30SPX AND MA40SX OR MA40SPX. The availability of the French Immersion math courses will depend on enrolment. All mathematics courses listed below are the same as described in the compulsory section except that they are taught in French. The math flowchart is available at the front of this booklet.

MATHÉMATIQUES - MA10FX
MATHÉMATIQUES - INTRODUCTION AUX MATHÉMATIQUES APPLIQUÉES ET PRÉ-CAL - MA20SPAX
MATHÉMATIQUES - AU QUOTIDIEN - MA20SX
MATHÉMATIQUES - PRÉ-CALCUL - MA30SPX MATHÉMATIQUES - AU QUOTIDIEN - MA30SX
MATHÉMATIQUES - PRÉ-CALCUL - MA40SPX MATHÉMATIQUES - AU QUOTIDIEN - MA40SX

SCIENCES HUMAINES

SCIENCES HUMAINES - SS10FX
Same as "core course" description for SS10F

GÉOGRAPHIE - GE20FX
Same as “core course” description for GE20F

HISTOIRE – HI30FX
Same as “core course” description for HI30F

ENJEUX MONDIAUX: CITOYENNETÉ ET DURABILITÉ - GI40SX
Same as “core course” description for GI40S

SCIENCES DE LA NATURE SCIENCES DE LA NATURE - SC10FX
Same as “core course” description for SC10F.

SCIENCES DE LA NATURE - SC20FX
Same as “core course” description for SC20F.

BIOLOGIE - BI30SX
Same as “core course” description for BI30S

PHYSIQUE-PH30SX
Same as “core course” description for Physics 30S

BIOLOGIE - BI40SX
Same as “core course” description for BI40S

CHIMIE - CH30SX
Same as “core course” description for CH30S

CHIMIE - CH40SX
Same as “core course” description for CH40S

FINE ARTS

VISUAL ART

ART- VA10SS
This course focuses on ideas/themes that relate to the students themselves, their community, and the world. Students will look at art, talk about it, and make it. Experience in making art is not necessary. Units/themes include mask making, ceramics, landscape, and the future.

ART - VA20SS
Art 20G is an option for grade 10, 11 and 12 students. Experience in making art is not necessary. All units begin with an idea or theme. Students learn basic skills in a variety of media, which enable them to express their ideas. Looking at and discussing the work of artists past and present help them to progress in their own work. Students develop basic skills in drawing, painting, sculpture, pottery making, jewelry making, etc.

ART - VA30SS
This level of art course is intended for students who have taken art classes previously and/or for those who have demonstrated a high level of achievement and understanding in the area of visual arts. Students taking S level courses will be working towards building a quality art portfolio. Art students now work more independently, choosing media and techniques best suited to the development of ideas/themes presented to them. Units include pottery, fashion, functional art, social commentary, and portraiture. In each unit, we look at design, art history, culture, and art appreciation.

ART - VA40SS
This level of art course is intended for students who have taken art classes previously and/or for those who have demonstrated a high level of achievement and understanding in the area of visual arts. Students taking S level courses will be working towards building a quality art portfolio. Students work independently on units of work based on ideas/themes that are of particular interest to them. Each unit includes a written component (biographies, history of art, critical analyses), experimentation in media and technique, and a final product or products. Students about to enter Fine Arts at the University level work on their portfolio.

MUSIC BAND

Please refer to common course descriptions.

1) By divisional policy, a standard fee of $120.00 applies to both all school instrument rentals & every percussion student to offset the cost of repairs and maintenance. Payments can be made in full ($120.00 dated Oct. 1) or installments ($60.00 x 2 dated Oct. 1 & Feb. 1)
   All payment cheques due on or before October 1 - no cash please
2) Instruments available for rent through the Sturgeon Heights instrumental music program: oboe, bassoon, bass clarinet, contra-bass clarinet, baritone saxophone, french horn, valve trombone, bass trombone, euphonium, tuba & string bass.
3) If a student is asked by a director to switch instruments, all rental fees associated with the new school instrument will be waived for the remainder of that school year.
4) All students in the Jazz program must also be registered in the corresponding Concert Band.

BAND - MB10SS
It is recommended that students entering Band 10S have prior experience playing a woodwind, brass or percussion instrument. If a student is lacking in basic skills on their instrument, the teachers will recommend that the student take private lessons in order to catch up to the group. Students registered for Band 10G are part of the grade 9 Concert Band. Students will attend both full band classes and smaller sectional classes. Students will demonstrate fundamentals in music, skill development, and creative expression as well as reflect on how their musical experiences help them to know both themselves and others. Participation in all performance events such as concerts, festivals, workshops & School Division proceedings is a requirement of this course.

BAND - MB20SS
Students registered for Band 20S are part of the grade 10 Concert Band. Students will attend both full band classes and smaller sectional classes. Emphasis will be placed on skill development and music theory will be covered as it arises in the repertoire. Participation in all performance events such as concerts, festivals, workshops & School Division proceedings is a requirement of this course.

BAND - MB30SS
Students in grade 11 who register for Band are considered to be part of the Symphonic Band. Students will attend both full band classes and smaller sectional classes as required by the directors. Emphasis will be placed on skill development, and music theory will be covered as it arises in the Repertoire. Participation in all performance events such as concerts, festivals, workshops & School Division proceedings is a requirement of this course.

BAND - MB40SS
Students in grade 12 who register for Band are considered to be part of the Symphonic Band. Students will attend both full band classes and smaller sectional classes as required by the directors. Emphasis will also be placed on skill development, and music theory will be covered as it arises in the Repertoire. Participation in all performance events such as concerts, festivals, workshops & School Division proceedings is a requirement of this course.

MUSIC JAZZ BAND - MJ10SS, MJ20SS, MJ30SS, MJ40SS
These courses are designed for interested students who have reached a proficient level of achievement on their band instruments.

Instruments of the Jazz Band are: saxophone, trumpet, trombone, bass, drums, piano and guitar. Students enrolled in this course will study various forms of jazz, swing, pop, latin and rock music. These courses will involve group practices and sectional rehearsals, with an increased emphasis on improvisation, jazz articulation, phrasing and interpretation. Participation in all performance events such as concerts, festivals, workshops & School Division proceedings is a requirement of this course.

JAZZ COMBO – JC20SS, JC30SS, JC40SS
The aim of this course is to give students an opportunity to develop advanced skills and concepts in jazz improvisation. Whereas the current jazz curriculum touches on jazz improvisation, this course will focus primarily on improvisation and developing the theoretical and historical understandings to play jazz at an advanced level. The skills and understanding will be approached in such a way that they can be transferred to any musical style.

MUSICAL WIND ENSEMBLE - ME10SS, ME20SS, ME30SS, ME40SS
Students must be registered in concert band to be eligible for this course. This course will be open to students in grades 9-12 - the classroom format will be a multi-age classroom. Any students registered in Wind Ensemble must demonstrate the following qualities:

- an advanced level of skill on their instrument
- a desire to perform challenging music, a strong work ethic
- a positive attitude and good teamwork skills

A Wind Ensemble is a performing ensemble characterized by very specific instrumentation. The ensemble requires students who not only demonstrate substantial skill and knowledge, but the desire, passion and commitment to achieve at the highest level. Participation in all performance events such as concerts, festivals, workshops & School Division proceedings is a requirement of this course.

CHORAL

MUSIC CHORAL - MC10SS, MC20SS, MC30SS, MC40SS
This program is open to all students who wish to study music and vocal production through choral singing. A strong emphasis will be on skill development, and music theory will be covered as it arises in the repertoire. This program is performance-orientated and will feature choral compositions in as many different styles as possible….from early Renaissance to 21st century “avant-garde.” Participation in concerts is a required part of this course.

VOCAL JAZZ - VJ10S, VJ20S, VJ30SS, VJ40SS
These courses are designed for students who are interested in Vocal Jazz, who love to perform, and who have reached a proficient level of achievement in choral singing. An advanced level of intonation, breath support, tone quality, sight singing, and independent harmony singing is required upon entering this class. Students enrolled in this course will study various forms of jazz, including swing, pop, latin and rock music. Vocal Jazz classes will emphasize improvisation, jazz inflections, phrasing and interpretation. Participation in concerts is a required part of this course. Please Note: Vocal Jazz Students must also be registered for Concert Choir (MC10G, 20G, 30S or 40S).

DRAMATIC ARTS

Students will be expected to participate in group, duo, and occasional solo activities. Evaluation will be based on a combination of evaluation strategies based on process, progress (emphasizing participation), assessed assignment mark (presentation grade), self-evaluation, and other notations.

DRAMATIC ARTS - DR10SS
The Drama10G program is designed to introduce the student to the world of the Theatre. The students will experience stage techniques and practical experience that will enhance the development of their stagecraft. The course introduces students to the art and the craft of drama through participation. It develops skills necessary for effective public speaking and dramatic presentation and enhances student’s sense of self-esteem and confidence.

DRAMATIC ARTS - DR20SS
This course is designed as a continuum of the Drama 11G. The students will be introduced to enhanced script work, which will assist them in developing their stagecraft. The focus of this program is the development of the young actor through practical stage experience.

DRAMATIC ARTS - DR30SS
Drama 30S is a university entrance course. Expectations of the young actor are increased from the Drama 20G program so that the student will further develop as a stage actor. Practical work is designed to emphasize a variety of dramatic expressions, which will offer the young actor a more global view of theatre work.

DRAMATIC ARTS - DR40SS
Drama 40S is a required university course if the student is considering continuing their study in the Dramatic Arts at the university level. Students will have the opportunity to participate in Manitoba Theatre Center activities as well as work on polishing their stagecraft. An emphasis on performance will be placed on the students that wish to challenge the Drama 40S program. Dramatic Arts 40S is a practical course in theatrical styles.

MUSICAL THEATRE – MT35SS, MT25SS, MT35SS, MT45SS
The musical theatre course encourages students to develop their acting, singing and dancing skills with the end result being a full-length professional production presented to the public. Students may also choose to work in the area of production behind the scenes. This course offers a unique opportunity to gain leadership, build self-confidence and work as a team. Emphasis is placed on individual participation, cooperation with others as part of small/large group work and gaining self-confidence through artistic expression.

THEATRE PRODUCTION – TP20SS
Theatre Productions 21G is a course designed to introduce the student to the world of theatre productions. The student will be able to expand their knowledge of theatre production by in general studies of the role of the director, producer, and stage manager. The student will also be introduced to the communication skills required to successfully direct a theatre production. Organizational skills will also be enhanced for co-ordination with both the casts and crews are a necessity. Script development will also be introduced as well as creative techniques to direct a theatrical performance.

THEATRE PRODUCTIONS – TP30SS
Theatre Productions 31G will allow the student to further expand on the concepts studied in Theatre Productions 21G. The student will be able to expand their knowledge of theatre productions by in-depth studies of the role of the Director. Specific lessons geared to explore the role of the Director will be introduced. The students will also have the opportunity to work with the Drama students to perfect their directing skills. This practical experience provides valuable lessons for the aspiring Director. The student will also learn the communication skills required to successfully direct a theatre production. Organizational skills will also be enhanced for co-ordination with both the casts and crews are a necessity. Practical training with the computerized school lighting system will also be completed. The students will also explore topics such as lighting for effect, costume, makeup, and stage enhancement with props as well as practical sessions in set construction.

THEATRE PRODUCTIONS -TP40SS
Theatre Productions 41G will allow the students to further expand on the concepts studied in Theatre Productions 31G. The students will be able to expand their knowledge of theatre productions by in-depth studies of the role of the Producer. Specific lessons geared to explore the role of the Producer will be introduced. The students will also have the opportunity to work with both drama and theatre production students to perfect their skills. This practical experience provides valuable lessons for the aspiring Producer. The students will also learn the communication skills required to successfully produce a theatre production. Organizational skills will also be enhanced for co-ordination with casts and crews as well as lessons in advertising, budgeting, understanding your market, and the production schedule. Script development and script writing will also be discussed as well as creative techniques to make a theatrical performance work. Practical Film Production work will be explored so that the student will have an understanding of the differences between Live Theatre and Film Production.Students will be expected to participate in group, duo, and occasional solo activities. Evaluation will be based on a combination of evaluation strategies based on process, progress (emphasizing participation), assessed assignment mark (presentation grade), self-evaluation, and other notations.

INTERNATIONAL BACCALAUREATE

Please see our Sturgeon Heights I.B. website for the most up to date information at:
http://sturgeonheightsib.wordpress.com.

The I.B. Diploma Program is a comprehensive pre-university course that demands the best from academically motivated students. It is a sophisticated two-year curriculum that has stood the test of time for over half a million students in 119 countries since 1968. The International Baccalaureate aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect. These programmes encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right. The I.B. Diploma Programme is designed as an academicallychallenging and balanced programme of education with final examinations that prepares students, in their last two years of high school studies, for success at university and life beyond. The I.B. Diploma Programme has the special honour of being recognized throughout Manitoban universities as well as over much of the world. It fosters higher learning, a holistic development of the student, and international mindedness. We offer this program for strong academic and highly motivated students in the last two years of high school, but we begin to prepare its students in Grades 9 and 10. For further general information log on to http://www.ibo.org or feel free to contact the I.B. Coordinator. The Diploma Programme prepares students for effective participation in a rapidly evolving and increasingly global society as they:

- Develop physically, intellectually, emotionally and ethically
- Acquire breadth and depth of knowledge and understanding, studying courses from 6 subject groups
- Develop the skills and a positive attitude toward learning that will prepare them for higher education
- Study at least two languages and increase understanding of cultures, including their own
- Make connections across traditional academic disciplines and explore the nature of knowledge through the programme's unique theory of knowledge course
- Undertake in-depth research into an area of interest through the lens of one or more academic disciplines in the extended essay
- Enhance their personal and interpersonal development through creativity, action and service

The Sturgeon Heights I.B. program is currently able to offer the following **courses:**
Organized alphabetically by course title:

- **Biology** – Group 5: Sciences (Higher Level)
- **Chemistry** – Group 5: Sciences (Standard Level)
- **Computer Science** – Group 5: Sciences (Standard or Higher Level)
- **Economics** – Group 3: Individuals and Societies (Higher Level)
- **English** – Group 1: Studies in Language and Literature (Higher Level)
- **French** – Group 2: Language Acquisition (and Français – Standard Level)
- **History** – Group 3: Individuals and Societies (Higher Level)
- **Mathematics** – Group 4: Mathematics (Standard Level)
- **Physics** – Group 5: Sciences (Higher Level)
- **Sports, Exercise and Health Science** – Group 5: Sciences (Standard Level)
- **Theory of Knowledge** – The I.B. Core
- **Visual Arts** – Group 6: The Arts (Standard or Higher Level)

Or organized by the various **I.B. groups:**

1. **Group 1: Studies in Language and Literature**
   - **I. English** Higher Level
2. **Group 2: Language Acquisition**
   - **I. French** – Standard Level (and Français)
3. **Group 3: Individuals and Societies**
   - **I.Economics** – Higher Level
   - **II.History** – Higher Level
4. **Group 4: Mathematics**
   - **I. Mathematics** – Standard Level
5. **Group 5: Sciences**
   - **I. Biology** – Higher Level
   - **II.Chemistry** – Standard Level
   - **III. Computer Science** – Standard or Higher Level
   - **IV. Physics** – Higher Level
   - **V. Sports, Exercise and Health Science** – Standard Level
6. **Group 6: The Arts**
   - **I. Visual Arts** – Standard or Higher Level

Or organized by the various **I.B. levels:**

Higher Level Courses:

1. **Biology** – Group 5: Sciences
2. **Computer Science** – Group 5: Sciences
3. **Economics** – Group 3: Individuals and Societies
4. **English** – Group 1: Studies in Language and Literature
5. **History** – Group 3: Individuals and Societies
6. **Physics** – Group 5: Sciences
7. **Visual Arts** – Group 6: The Arts

Standard Level Courses:

1. **Chemistry** – Group 5: Sciences
2. **Computer Science** – Group 5: Sciences
3. **French** – Group 2: Language Acquisition (and Français)
4. **Mathematics** – Group 4: Mathematics
5. **Sports, Exercise and Health Science** – Group 5: Sciences
6. **Visual Arts** – Group 6: The Arts

To receive the full I.B. Diploma, three major requirements must be fulfilled:

1. Students must complete one subject from each of five groups (1 to 5). As well, students must complete a 6th from either group 6 (the Arts), or a second subject from groups 1 to 5.
2. At least three and not more than four subjects are taken at higher level (240 teaching hours), while the other subjects are taken at standard level (150 teaching hours)
3. Students must complete the three core elements: the Theory of Knowledge (T.O.K.) course, Creativity, Action Service (C.A.S.) component, and the extended essay (E.E.)

The Diploma Programme core:

The extended essay asks students to engage in independent research through an in-depth study of a question relating to one of the DP subjects they are studying. The world studies extended essay option allows students to focus on a topic of global significance which they examine through the lens of at least two DP subjects. Including:

- 4,000 words in a subject and topic of the student's choice
- Offers the opportunity to investigate a research question of individual interest
- Familiarizes students with the independent research and writing skills expected at university
- An Extended Essay Advisor (Teacher of the student's choice) offers some guidance through the process

Theory of knowledge develops a coherent approach to learning that unifies the academic disciplines. In this course on critical thinking, students inquire into the nature of knowing and deepen their understanding of knowledge as a human construction. Including:

- Interdisciplinary - drawing connections between the various Groups
- Explores the nature of knowledge across disciplines
- Encouraging an appreciation of other cultural perspectives
- Taken in grades 11 and 12 as the courses TOK32IB and TOK42IB

Creativity, action, service (CAS) involves students in a range of activities alongside their academic studies throughout the Diploma Programme. Creativity encourages students to engage in the arts and creative thinking. Action seeks to develop a healthy lifestyle through physical activity. Service with the community offers a vehicle for a new learning with academic value. The three strands of CAS enhance students' personal and interpersonal development through experiential learning and enable journeys of self-discovery.
Including:

- Encourages students to be involved in artistic pursuits, sports and community service
- Education outside the classroom
- Development of the learner profile
- Conducted over grades 11 and 12
- 150 hours in total divided fairly evenly between the three components (C, A and S)

GROUP 1: Studies in Language and Literature

Grade 10

ENGLISH - EN20PB
In addition to the regular EN20F program, students study a Charles Dickens novel, either A Tale of Two Cities or Great Expectations and begin to learn the process of analyzing literature.

Grade 11

ENGLISH - EN32IB- IB English Year 1
This course is the first year of a two-year IB English syllabus. Students meet every day for one semester. Students will be introduced to world literature by studying the novel One Day in the Life of Ivan Denisovitch. Students will also study the novel Wuthering Heights and the poetry of Mary Oliver. Using one of these works, students will complete an individual oral presentation (IOP) which is a requirement for the IB English program. Shakespeare's Macbeth and the memoir Running with the Family will complete the course.

Grade 12

ENGLISH 40IB – IB English Year 2
This course is the first part of the second year of the IB syllabus. Students meet every day for the first semester. Students will complete four world literature works (The Plague, A Doll's House, Oedipus and Antigone) and will write two essays on world literature. This is a requirement for the IB English program. Students will also study the novel The Adventures of Huckleberry Finn. Shakespeare's Hamlet and the play The Crucible will complete the course. Students will write the grade 12 Provincial ELA Standards test in January.

ENGLISH 42IB – IB English Year 2
This course is the second part of the second year of the IB syllabus. Students meet every day until the end of April. Students will study the poetry of Keats, Frost and Atwood and the novels The Stone Angel and Frankenstein. In March, students will complete an individual oral commentary (IOC) which is a requirement for the IB program. In May, students will write two International Baccalaureate examinations. Each exam session is two-hours in length.

GROUP 2: Language Acquisition

The courses listed below are divided according to Basic French and Immersion courses. Immersion courses are listed as Français. Please note that in order to gain admission into the IB Programme, students in grades 9 and 10 must take a Basic French or Immersion French. Course instruction throughout both areas is offered in French.

French IB/ Français BI

I. French B SL - Basic French (Second Language)
II. Français Language A1 SL - Immersion (Second Language)

I.FRENCH B SL - BASIC FRENCH

Grade 9

FRENCH - FR10F
The objectives of the course are: to develop oral accuracy and fluency; to develop reading skills; to begin formal study of grammar and the development of a more advanced vocabulary; to develop cultural (Francophone) awareness. Students will participate in a variety of activities to further their linguistic competence.

Grade 10

FRENCH - FR20PB
The course objectives are: to develop the student's fluency in reading and speaking; to develop further the student's ability to understand French spoken at normal speed; to recognize the structure of French and how to formulate sentences; to develop the ability to write a simple composition. This course is required so as to access the IB programme.

FRENCH - FR30PB
This is the same content as the FR30S course with some enrichments in preparation for the IB courses. This course is offered in the second semester of grade 10. This course is required to access the IB programme.

Grade 11

FRENCH - FR40IB
In addition to the description of the FR40S course, students will develop the ability to communicate accurately and effectively in speech and in writing within a range of contexts; to develop the ability to understand and respond to the language demands of transactional and social contacts; to provide students with a sound linguistic base for further study, work and leisure; to offer insights into the culture of the countries where the language is spoken; to provide the opportunity for enjoyment, creativity and intellectual stimulation. Fluency and comprehension will be further developed through listening and speaking activities and the study of reading passages.

Grade 12

FRENCH - FR42IB (French B Standard Level)
This course is taught every other day throughout the school year. The students will be exposed to a wide range of texts, written and spoken, literary and non-literary. Students will write the IB French Language B exam in May. This course will give students the opportunity to reach a higher degree of competence in the language and explore the culture using the language. Skills will be developed in the following areas of language mastery:

- Written Comprehension - reading a variety of texts from different genres
- Written Production - writing for a variety of audiences in various genres
- Oral Comprehension - listening for understanding radio, television, music and cinema
- Oral Production - speaking for different social contexts and different audiences

II. FRANÇAIS LANGUAGE A1 SL: Language and Literature (IMMERSION)

Language A1 is a language/literature course for students who have been educated at a school whose working language is not their native language, i.e. our French Immersion students. Such students will have surpassed the foreign learner stage, but, are not considered native speakers. Successful Full Diploma candidates will receive a bilingual diploma issued by the International Baccalaureate Organization. As mentioned earlier, in order to gain admission into the IB Programme, students in grades 9 and 10 must take a second language.

Grade 9

FRANÇAIS - FR10FX
Students will be exposed to a variety of literature which covers several genres. In addition, students will be required to pay attention to the mechanics of their language in a very detailed and active manner. Language mechanics will be explored through an explicitly grammatical as well as contextually integrated manner.

Grade 10

FRANÇAIS - FR20PBX
Students will continue to be exposed to a variety of literature in various genres. Students will use a variety of materials to achieve success, including plays, novels, short stories, magazine articles and poetry. Students will continue to deprogram themselves out of common errors while at the same time explore how to answer analytical questions. This course is required so as to access the IB programme.

FRANÇAIS - FR30PBX
This course continues to develop the skills studied in FR20PBX. The literature and the works covered will be more developed than at previous levels. Students will be required to prepare oral and research presentations and written essays which demonstrate a greater grasp of the language. Students will study a minimum of one play and one novel. Students will continue to develop mastery of analytical questions and learn how to approach critical texts. Additionally, students will receive an introduction to persuasive texts and the production of short stories. This course is offered in the second semester of grade 10. This course is required so as to access the IB programme.

Grade 11

FRANÇAIS - FR40IBX
Course objectives are similar to the FR40SX course. In addition, students will begin literary analysis of excerpts from various genres. Works and tasks are organized according to the following themes as prescribed by the IB. Additionally, students will prepare for the provincial exam.

Grade 12

FRANÇAIS - FR42IBX (French A1 Standard Level)
Prerequisite: French 40IBX
Students will continue to deepen their understanding in the themes from FR40IBX. Students will delve heavily into literary analysis and comparison. There is an oral exam as well as two creative writing tasks sent to IB. Units and works are thematically linked according to IB principles.

GROUP 3 Individuals and Societies

Grade 9

GEOGRAPHY - GE20PB
The main focus of this course is the environmental and political issues in geography that impact our lives and those of future generations within the context of North America. Major topics of discussion will include:

the impact of energy use on our planet, sustainable development, issues related to trade and industry, food production and related issues, population growth and city planning, the use of Global Positioning Systems (GPS) and Geographic Information Systems (GIS).

GÉOGRAPHIE - GE20PBX
Same as “core course” description for GE20PB

Grade 10

CANADIAN HISTORY - HI30PB/HI30PBX
This course engages students in historical inquiry and asking essential questions to focus on Canada from pre-contact times until the present. Canadian History emphasizes important skills and concepts in historical thinking and focuses on five major themes: First Nations, Métis and Inuit Peoples, French-English Duality, Identity, Diversity and Citizenship, Governance and Economics, and Canada and the World. Special attention will be focussed on preparing students for writing essays and documents tests in the IB program.

Grade 11

HISTORY OF THE AMERICAS - HI32IB
This is the first history course entirely dedicated to the IB curriculum. Students will be working with primary documents and preparing for the IB examinations in May of their grade 12 year. Students will not be able to complete IB history at the higher level without completion of this course. The primary topics of study for this course will be the Great Depression, World War II, and the Civil Rights Movement between 1940 and 1970. Each of the topics will be thoroughly examined from the perspective of the United States and Canada.

ECONOMICS - EC32SIB
The course emphasizes the economic theories of microeconomics, which deal with economic variables affecting individuals, firms and markets, and the economic theories of macroeconomics, which deal with economic variables affecting countries, governments and societies. These economic theories are not to be studied in a vacuum—rather, they are to be applied to real-world issues. Prominent among these issues are fluctuations in economic activity, international trade, economic development and environmental sustainability. The ethical dimensions involved in the application of economic theories and policies permeate throughout the economics course as students are required to consider and reflect on human end-goals and values.

Grade 12

WORLD HISTORY - HI42IB (Higher Level)
This course is required for students wishing to complete the Higher Level IB history course. Students who have not taken the grade 11 IB History of the Americas course may still complete this course and receive a Standard Level IB certificate/credit. Below is a list of several major topics discussed in the course:

- The rise and rule of single party states with a special focus on Josef Stalin and Fidel Castro.
- The Cold War including examination of its origins and development. There is will be special attention paid to the wars in Korea and Vietnam and the conflicts over Germany and Cuba.
- An extensive discussion of the Apartheid system in South Africa

ECONOMICS – EC42IB
This course goes beyond the firm and the individual and looks at national economies, international trade, and development economics. At the end of the course, you will understand different philosophies directed toward making the economy grow, how and why there is unemployment, how demand and supply work in the macro economy and how inflation works. You will learn why trading with other countries is necessary if we all are to benefit and be able to show how everyone benefits. Finally, you will study development economics, looking at barriers to growth, development strategies, foreign investment and aid. This course is the final portion of the high level IB curriculum. EC32IB is a prerequisite for EC42IB.

GROUP 4: Mathematics

MATHEMATICS IB
For the following math courses, please note: Courses with an X at the end of the course designation are the appropriate selections for Immersion students.

Grade 9

MATHEMATICS - MA10F / MA10FX
The course description for MA10F / MA10FX can be found in the “core course” description.

Grade 10
IB students take Mathematics 20PB / 20PBX in the first semester and Mathematics 30PB / 30PBX in the second semester. These are the standard University Entrance courses. In addition, students will be exposed to more problem-solving in preparation for mathematics contests and further IB competitions.

MATHEMATICS - MA20PB / MA20PBX
This course is intended only for those students who intend to register for Calculus in a post-secondary institution. The content of this course focuses on the more abstract numerical concepts, places an emphasis on higher level problem solving, mental mathematics and cumulative testing. Topics include measurement, polynomials and factoring, analytic geometry, trigonometry, relations and functions, algebra and number sense, and systems of linear equations.

MATHEMATICS - MA30PB / MA30PBX
This course is designed for those students requiring Mathematics in post-secondary institutions. A TI-83 Plus graphing calculator is required. Topics include sequences and series, absolute values and radicals, quadratic equations, quadratic functions, inequalities, trigonometry, rational expressions and equations, and reciprocal functions.

Grade 11
Grade 11 IB students take Mathematics 40IB / 40IBX, the standard University Entrance course.

MATHEMATICS - MA40IB / MA40IBX
Topics include polynomial, radical and rational functions, circular functions and trigonometry, trigonometric identities, exponents and logarithms, permutations and combinations. In addition, students will be expected to do some additional IB topics such as the area of sectors.TI-84 graphing calculator is required.

Grade 12

MATHEMATICS - MA42IB – (Standard Level)
This course is designed for students who expect to need a sound mathematical background as they prepare for future studies in subjects such as chemistry, economics, math, psychology, business, etc. Topics include: calculus, probability, statistics, vector geometry and matrices. Students will write the IB examinations in May. A required portfolio will be completed during the year. Two midterm examinations will be written; one in the fall and one during the exam week at the end.

GROUP 5: Sciences

Grade 10

SCIENCE - SC20PB / SC20PBX
This version of the compulsory grade 10 science course is specially designed for students intending to enter IB Biology, IB Chemistry, or IB Physics. While based on the existing Manitoba SC20F curriculum, students will cover additional material in greater depth than in the standard SC20F course and the pace will be considerably faster.

IB LAB PROGRAMS – Grade 11 and 12

All grade 12 students will also complete a Group 4 project. Students are required to save their lab reports as they will be submitted to the chief examiner of IB for evaluation upon completion of the grade 12 IB program and will count for 24% of the IB mark. The Group 4 IB Evaluation is based on the following percentages: IB Exam 76%, Lab Work (internal assessment) 24%.

CHEMISTRY 32IB – CH32IB

This course is designed for highly motivated students who seek a challenge and typically enjoy chemistry a great deal. Although not a prerequisite, SC20PB is strongly encouraged to be taken before this course as some topics covered in the SC20PB course allow for a greater level of success in CH32IB. Topics covered in this course include Stoichiometric Relationships, Atomic Theory, The Periodic Table and Periodicity, Chemical Bonding, Energetics, Kinetics and Equilibrium. This course will include a group 4 project and several lab activities. There will not be an exam at the end of this course as it is not terminal and will continue with CH42IB.

CHEMISTRY 42IB – CH42IB

This is a direct continuation of the CH32IB course and the two are taken in consecutive semesters, usually in the grade 11 year with CH32IB taken semester 1 and CH42IB taken semester 2. Topics covered will include Acids and Bases, Redox Processes, Organic Chemistry and Medicinal Chemistry. There will be several lab activities in this course including an Internal Assessment Lab and Report. There will be an exam at the end of this course covering all topics covered in CH32IB and CH42IB. Students who score well on the IB Chemistry exam will have the opportunity to earn a university level chemistry credit towards their university transcript.

BIOLOGY 32IB - BI32IB

This is the first course in the two year higher level IB Biology program. Topics covered include: cells, molecular biology, human physiology, metabolism, and animal physiology. While topics covered are similar to Biology 30S, students will cover more material at a quicker pace and in greater depth. Greater emphasis will be placed on laboratory work.

BIOLOGY 40IB - BI40IB

This is the second course in the two year higher level IB Biology program. The topics covered are similar to BI40S, but students will cover more material in greater depth than BI40S. The pace of the course will be fast, with greater emphasis on laboratory and research work.

BIOLOGY 42IB - BI42IB

This is a continuation of BI40IB for those students who will be writing the IB Biology examination. The IB Biology examination is written in May.

PHYSICS - PH32IB

This is the first course in the two year higher level IB Physics program. Topics covered include: Mechanics, Dynamics, Oscillations and Waves, and Wave Phenomena. While the topics covered are similar to PH30S, the pace of the course is faster. There is also a greater emphasis on laboratory and research work.

PHYSICS - PH40IB

This is the second course in the two year higher level IB Physics program. Topics covered include: Gravitational and Electric Fields, Electric Circuits, Magnetic Fields, Alternating Current, Capacitors, Thermal Physics, and Sources of Energy. This course is a continuation of PH32IB and continues at the same pace.

PHYSICS - PH42IB

This is the third course in the two year higher level IB Physics program. Topics covered include: Nuclear Physics and Fluid Dynamics. Students will also complete a major independent lab study during this course. The IB Physics examination is written in May.

COMPUTER SCIENCE - CS32IB
Continuing study from topics learned in Computer Science 20S, students will learn a second programming language (and potentially two more). Java will be the main instructional language, but C#, C++, or Flash's ActionScript are all languages that could be explored in this course depending on the enthusiasm of the class and time restrictions. The CS20S topics will be briefly reviewed and then move to new topics such as: methods, arrays, classes, GUIs/graphics, and advanced programming topics (e.g. advanced classes, files, searching and sorting). Students will have more practical programming problems and more choice in their complexity (based on time available) and then finish the year working on a new, more advanced final project. This course can be taken co-currently with CS30S.

COMPUTER SCIENCE 42IB - CS42IB
The CS30S topics will be briefly reviewed and then move to new topics such as: recursion, sequential files, searching and sorting, linked lists, stacks, queues, trees, threads (timers), collections, and advanced programming topics. In addition, students need to cover specific I.B. Computer Science units including: system fundamentals, computer organization, networks, resource management, control, abstract data structures, and advanced object oriented programming. Students will have more choice in assignments and complexity (based on time available) and will finish the year working on a new, more advanced final project which will be used for the I.B. internal assessment. As well, students will prepare for the I.B. external examination for the Computer Science I.B. course.

SPORTS, EXERCISE AND HEALTH SCIENCE – SE32IB
The SEHS course incorporates the disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health. A combination of syllabus content and experimental work provides the opportunity for students to acquire the knowledge and understanding necessary to apply scientific principles and analyze human performance. The comprehensive curriculum provides excellent preparation for university courses including those specifically related to Sport, Sports Science or Physical Education.

SPORTS, EXERCISE AND HEALTH SCIENCE – SE42IB
The SEHS course has strong international dimensions such as international sporting competition and the international bodies that regulate them. Ethical issues that exist within sporting competitions are considered. The comprehensive curriculum provides excellent preparation for university courses including those specifically related to Physiotherapy, Occupational Therapy, Sports Science or Physical Education curriculum provides excellent preparation for university courses including those specifically related to Sport, Sports Science or Physical Education.

GROUP 6: The Arts

IB allows for students to take two courses within one Group (i.e. side of the hexagon) if they cannot pursue a Group 6 subject. This will still allow a student to pursue a Diploma.

Grade 11

VISUAL ARTS 32IB
This course consists of two areas of study: a studio work component that deals with practical exploration and artistic production, and inquiry workbooks that deal with independent critical research and analysis, visual and written. This course will provide each student with opportunities to make personal, socio-cultural and aesthetic experiences meaningful through the production and understanding of art. Students will be expected to gain visual and contextual knowledge of art from various cultures, and pursue quality through experimentation and purposeful creative work in various expressive media. Students who excel at studio may wish to emphasize this by choosing it as their 60% component while students who are more interested in the theory behind art may opt for inquiry as their 60% component. Students not following the full IB program may still enroll in Visual Arts 32SIB. This course will replace Art 30S.

VISUAL ARTS 42IB
This course is a continuation of the 32SIB course taken in grade 11. During this year, the students will complete their I.B. internal and external assessment for Visual Arts which consists of inquiry workbook submissions (selected exemplars), written artist statement, digital photographs of their studio work, and a video interview discussing their work and the process of creating it. These will all be submitted electronically to the I.B. for assessment.

The Core:

Grade 11

THEORY OF KNOWLEDGE – TOK32IB (0.5 credit)
The interdisciplinary TOK course is designed to develop a coherent approach to learning that transcends and unifies the academic areas and encourages appreciation of other cultural perspectives. The theory of knowledge course is in part intended to encourage students to reflect on the huge cultural shifts worldwide around the digital revolution and the information economy. The extent and impact of the changes vary greatly in different parts of the world, but everywhere their implications for knowledge are profound. Theory of knowledge encourages critical thinking about knowledge itself and aims to help young people make sense of that they encounter. Its core content focuses on questions such as What counts a knowledge? How does it grow? What are its limits? Who owns knowledge? What is the value of knowledge? And what are the implications of having, or not having, knowledge? TOK activities and discussions aim to help students discover and express their views on knowledge issues. The course encourages students to share ideas with others and to listen and learn from what others think. In this process students' thinking and their understanding of knowledge as a human construction are shaped, enriched and deepened. Connections may be made between knowledge encountered in different Diploma Programme subjects, in CAS experience or in extended essay research; distinctions between different kinds of knowledge may be clarified.

Grade 12

THEORY OF KNOWLEDGE – TOK42SIB (0.5 credit)
The TOK course spans the second semester of the grade 11 year, and the first semester of the grade 12 year – both worth 0.5 credits for a total of 1 full credit. In the second year, students must complete the specific I.B. internal assessments for this course including: a 1200-1600 word essay and a presentation. The essay will be externally moderated by the I.B.

INTERNATIONAL BACALAUREATE BILINGUAL DIPLOMA (FRENCH IMERSION)
This program is designed for students who wish to graduate with a Manitoba French Immersion diploma as well as with a Bilingual IB diploma. In grade 10, students will complete 6 courses in French: MA20PBX, MA30PBX, GE20PBX, SC20PBX, FR20PBX, FR30PBX and HI30PBX. In grade 11, they will study FR40IBX and MA40IBX. To obtain the IB Bilingual diploma, students would complete the IB requirements and complete their Language A1 program in French. Students must complete the course FR42IBX in their final year to be awarded this distinction.

TECHNOLOGY- VOCATIONAL EDUCATION

AVIATION INTRODUCTION
The Commercial Pilot Aviation Ground School is designed to introduce the possibilities aviation holds for careers. Students will be introduced to the commercial pilot sector, air traffic control, airline management, meteorology, aircraft maintenance, and aeronautical engineering. The program requires a minimum passing mark of 60% in all of the 8 required courses to earn a certificate. This program exceeds Transport Canada's minimum requirements for written exams. In addition to the courses listed below under Aviation Courses, a student must also take any one of the following:

- A Photography course

- First Nations, Metis and Inuit Studies 40S
- Hardware Fundamentals 30S
- Computer Science 30S
- Computer Science 40S
- A power mechanics course

AVIATION COURSES

INTRODUCTION TO AVIATION - AV10S
This newly developed course will allow grade nine students to explore aviation in a hands on interactive manner. While taking in theoretical practices students will design their own airfoil (wing), study and demonstrate an understanding of basic aircraft controls, surfaces instruments (demonstrate skills on a flight trainer), history (national and Canadian), basic meteorology, engine and airframes. Students will be engaged in experiments throughout this class.

AVIATION: INTRODUCTION TO AVIATION - AV20S
This course provides a general introduction to the following program topics: aerodynamics, mechanics of aircraft, knowledge of air laws, meteorology, and psychology of pilot decisions, human factors, and navigation.

AVIATION: COMMERCIAL PILOT: GROUND SCHOOL - AP30S
Topics include aerodynamics, mechanics of aircraft, knowledge of air laws, meteorology, psychology of pilot decisions and human factors as they are related to commercial pilot activities.

AVIATION: METEOROLOGY & NAVIGATION - AM30S
This course develops a more advanced understanding of meteorology and navigation as it relates to aviation activities.

AVIATION: SAFETY & HUMAN FACTORS - AS40S
This course develops a more advanced understanding of the concepts related to first aid, the pilot and the operating environment, aviation psychology/pilot decision-making and aviation physiology, and human factors.

AVIATION: PILOT TRAINING LAB - AP40S
This course places flight procedures into realistic simulation through the use of flight trainer. Topics include flight exercises and radio communications required for private pilot's license. Ground theory will be taught before each simulation.

AVIATION: ADVANCED AVIATION - AV40S
This course develops a more advanced understanding of aviation. Topics include: the principles of flight, navigation computers, pre-flight preparations, radio theory, automatic direction finder, global navigation satellite systems, radio/ radar aids, flight instruments and the use of performance charts.

ELECTRICAL/ELECTRONICS

ELECTRICAL / ELECTRONICS - EL15S (0.5 credit)
* taken with WT15G
This is an introductory course in electronics that focuses on working with electricity safely. Basic electronics, electrical, computers, and robotics will be covered. Students will have the opportunity to create, fix, and dismantle various electronic projects to reinforced theories taught.

ELECTRICAL / ELECTRONICS - EL20S
The 20S course is an introduction to the working world of electrical and electronics. Students will learn the theory, characteristics, and fundamentals of electron flow associated to work safely with Direct Current. Students will learn extensively using a hands-on approach by building various electronic projects, using meters, soldering, making their own circuit boards, troubleshooting broken electric devices and even fixing things from home.

ELECTRICAL / ELECTRONICS - EL30SSA AND EL30SSB
Credit Value: 2 credits, 1 credit per course
The 30S course will be an extension of the 20S course. Students will use their previous skills to build more advanced electronic projects. The main focus is to cover advanced electronics associated with semi conductors. Alternating Current will also be covered with an introduction to residential house wiring. Students will gain valuable troubleshooting skills to fix and repair various items.

ELECTRICAL / ELECTRONICS - EL40SSA, EL40SSB, EL40SSC, EL40SSD
Credit Value: 4 credits, 1 credit per course
All skills learned in the past years will be reviewed. These four courses ensure the students are “job ready” and marketable to enter the work force and/or prepare them for a post-secondary institution. Students will continue to work in four main areas: electronics, construction/residential electrical wiring, robotics and working with computers servicing/repair/networking. Students will also learn about all of the writing techniques associated in house wiring, alarm, telephone, cable home electronics and computer industries. Students will have the opportunity to compete at The Manitoba Robot Games, Manitoba Skills Competition and Science Fairs.

GRAPHIC DESIGN AND PRINT COMMUNICATIONS

8 Credits Vocational Certificate Program

GRAPHIC ARTS: INTRODUCTIONTO PRINT PRODUCTION - GA15S (0.5 CREDIT)
*taken with MP15S
The Introduction to Print Communications and Basic Design Course, at the Grade 9 level, serves as an introduction for the student who wishes to learn how information is transmitted visually and graphically through the use of electronic and print media in Graphic Design and Photography.

GRAPHIC ARTS: PRINT PRODUCTION FUNDAMENTALS- GA20S
This is the introductory course into the graphic design and print communications area. Students will spend time in each of the areas, learning traditional and digital methods of working with images and type. Desktop publishing, design and image manipulation on computers, with a variety of software, is a major focus in this course. Preference will be given to grade 10 and grade 11 students. Students will also explore the vast area of print technology, including offset, digital, wide-format, screen and traditional methods. Students will create stationary (notepads, buttons, business cards, and letterhead), vinyl signage, magazine layouts, yearbook creation, and many other exciting showpieces.

GRAPHIC ARTS: DESIGN AND PRINT PRODUCTION - GA30SSA and GA30SSB
Credit Value: 2 credits, 1 credit per course
This course will consist of theoretical and practical presentations in the form of lectures, visual demonstrations, supported with class and take home assignments, sketchbook work, print shop projects, discussions and critiques, guest speakers, field trips, and work experience. Students will learn and practice the Fundamental elements, principles, techniques, and applications that are pertinent to the overall development specific to the Graphic Design and Print Communications Discipline. Various Presentation techniques will be offered through the use of presentation boards, package design, and iLife Portfolio preparation.

GRAPHIC ARTS: ADVANCED DESIGN, PREPRESS, PRINT PRODUCTION AND APPLIED PRINT MEDIA – GA40SSA, GA40SSB, GA40SSC & GA40SSD
Credit Value: 4 credits, 1 credit per course
This course will explore a variety of creative possibilities, solutions and examine the interrelationships between the various technical procedures. Other objectives will include; developing a professional attitude towards craftsmanship and the industry, increase the overall appreciation and understanding through awareness of the various applications and procedures of the discipline, be expected to apply techniques and discuss related issues on an aesthetic, conceptual and technical level, and problem solve industry related scenarios utilizing the most applicable graphics and printing techniques. Students will be required to take part in the final production of the yearbook, and will complete an iPortfolio. Preparation for Post-Secondary studies and employment will be implemented throughout the course of the program.

MEDIA PRODUCTION

MEDIA PRODUCTION: INTRO. TO ELECTRONIC COMMUNICATION (0.5 CREDIT)
* taken with GA15S
Students will study the effects of mass media on popular culture, and produce several short video projects.

MEDIA PRODUCTION: ELEMENTS OF BROADCASTING - MP20SA
This course will introduce students to all aspects of video production including storyboard creation, script writing, video camera operation, shot composition, and editing. This course is recommended before other grade 11 and 12 media production courses.

MEDIA PRODUCTION: BROADCASTING TECHNOLOGY - MP20SB
Students will study and create many styles of animation including stop-motion and Claymation. Camera skills and editing techniques will be emphasized.

MEDIA PRODUCTION: TELEVISION PRODUCTION- MP30SA
Students will explore story-telling through video projects incorporating advanced production values such as lighting, sound design, and post-production.

MEDIA PRODUCTION: RESEARCH, WRITE AND PERFORM - MP30SB
Students will create non-narrative video projects such as biographical, instructional, and editorial formats incorporating advanced production values such as lighting, sound design, and post-production.

MEDIA PRODUCTION: APPLIED ELECTRONIC COMMUNICATION/ MEDIA LITERACY - MP40SA/MP40SB
Students will learn Electronic News Gathering techniques and create documentary videos. Emphasis will be placed on script preparation and copywriting.

PHOTOGRAPHY

A personal digital camera is not required, however home use of personal camera outside of school will help students to explore their creativity. All materials are supplied by the school. Students may purchase additional CD and DVD blanks from the school if they desire.

PHOTOGRAPHY 15S- PD15S (0.5 CREDIT)
* taken with DT15S (Digital Technology) for a full credit
This course is designed to give students a small sampling of the digital photography program. Students are introduced to digital photography and the rules of composition. Basic editing using image manipulation software is also covered. This is an introductory course and no photography or computer skills are required other than a desire to learn about photography. Students will be using digital point and shoot cameras that will be provided. (NOTE: students taking this course will receive Manitoba ICT 0.5 credit: Applying ICT – ICT 2 15F)

PHOTOGRAPHY – PD20S (1 CREDIT)
This is an introduction to digital photography. Some computer experience is beneficial as this course makes extensive use of technology. Students will be using digital point and shoot cameras that will be provided. Students will be introduced to digital photography by studying these major units:

- What is Photography? – How a digital camera works.
- Digital Darkroom – How we can use image manipulation software (Photoshop) to enhance images.
- Composition Basics – Understanding how to take better pictures through proper composition.

PHOTOGRAPHY – PD30S (1 CREDIT)
This is an intermediate photography course that focuses on composition and creativity in digital photography. Students will explore equipment and techniques that were not previously covered in the introduction courses. Computer experience is required as this course makes extensive use of technology. Students will be using DSLR cameras that will be provided. It is recommended that students have prior experience in Photography.

Students will be developing their skills in composition and creativity by studying these major units:

- Digital Photography Today – A look at how photography has advanced to the point it is at now.
- Photography Techniques – Exploring photographic techniques that will allow for better photographs.
- Intermediate Digital Darkroom – Applying image manipulation software (Photoshop) to enhance our images.
- Basic Studio Setup – Learning the basics of using studio lighting equipment to enhance our photography.
- Composition and Design – Analyzing and applying composition techniques to add creativity and interest to our photography.
- Presentation – Exploring the various ways (digital, online, printed etc.) of presenting and creating digital masterpieces.

PHOTOGRAPHY – PD40S (1 CREDIT)

This is an advanced digital photography course that focuses on portfolio development and workplace transition. Students will explore equipment and techniques that were not previously covered in any of the previous courses. Computer experience is STRONGLY required as this course makes extensive use of technology. It is **STRONGLY** recommended that students have prior experience in Photography and image editing. Students will be using DSLR cameras that will be provided. Students will be developing their portfolios by studying these major units:

- Working as a Photographer – A look at what it means to work as a photographer through live work and experience.
- Advanced Photography Techniques – Exploring advanced photographic techniques that will aid in the development of stunning portfolio photographs.
- Advanced Digital Darkroom – Applying advanced image manipulation techniques to greatly enhance our portfolio images.
- Advanced Studio Setups – Learning how to use multiple pieces of studio equipment to create dimensional lighting and mood in our photographs.
- Cataloging and Organizing – Learning how to catalog our work through Lightroom to develop proper photography workflow and organization.
- Portfolio Development – Creating a portfolio (both online and printed) that highlights our achievements in digital photography and will allow for possible employment in the field of photography.

CULINARY ARTS

CULINARY ARTS – ACCREDITATION

Recognition has been given to the College Sturgeon Heights Collegiate Culinary Arts program, which meets the required standards, needed by the Manitoba Apprenticeship Board. Students who have successfully completed all three levels (grades 10, 11 and 12) with an overall mark of 70% or better, have completed all assigned theory work and have a good attendance record, may, with the recommendation from their Culinary Arts Instructor, qualify for Level 2 of the Apprenticeship Program skipping Level 1. Afterwards, students must find employment with an establishment that has a Journeyman Cook to complete their Apprenticeship Program hourly requirements. At the completion of grade 12, the student will graduate with a high school diploma, and will have the option of progressing towards completion of the Apprenticeship Program. The student will continue in training and employment with the employer and after the hourly requirement, later earn a Certificate of Qualification in the Cook trade. The certificate is an inter-provincial qualification and recognized across Canada as well as internationally. This certificate will allow students to move to a number of other provinces where the “Red Seal” Journeyman’s Cook Certificate is recognized throughout Canada and recognized internationally.

CULINARY ARTS - FS10SS

This an optional course intended for students wishing to sample the culinary arts. The emphasis is on hands-on activities. Students are introduced to sanitation and safety, tools and equipment, knife handling and safety, and general preparation procedures for different types of food and beverage.

CULINARY ARTS - FS20SS
This course is intended for students wishing to pursue the Culinary Arts. The emphasis is on hands-on activities. Students learn the specifics of sanitation and safety in a commercial kitchen. They also learn about tools and equipment, knife handling and safety, and general preparation procedures for different types of food and beverage. The course provides information and practical experience on the effects of heat on food, setting up workstations, cooking terms and methods, principles for seasoning and flavouring, and how to read and follow recipes. Student will practice measurement and scaling techniques.

** **PLEASE NOTE** Students registered in the grade 11 or 12 program must sign up for all 4 credits**

CULINARY ARTS - FS30SSA, FS30SSB, FS30SSC, FS30SSD
Credit Value: 4 courses, 1 credit per course
Practical Skills: The emphasis is on volume production for employment in the hospitality industry. Meals are prepared for the staff and the student cafeteria as well; there are several banquets and special catering events throughout the semester in which students will need to participate.
Theory: This level consists of topics which include: W.H.M.I.S.; Food Safety and Sanitation; Planning and Organization of Work Activities; The Recipe: Its Structure and Its Use; Preparation and Presentation of Baked Goods; Preparation and Cooking of Stocks; Sauces and Soups Preparation and Presentation of Desserts; Preparing Hot and Cold Beverages; Preparation and Cooking of Fresh Vegetables, Fruit, Starches and Farinaceous Products; Preparation and Cooking of Meats and Poultry. There is a final practical/theory examination upon completion of the course.

CULINARY ARTS - FS40SSA, FS40SSB, FS40SSC, FS40SSD
Credit Value: 4 courses, 1 credit per course
Practical Skills: The emphasis is on volume production employability skills for employment in the hospitality industry. Students prepare soups, sauces, daily chef's specials. Special catering and banquets are part of the course. Theory: This level consists of topics which include: W.H.M.I.S.; Food Safety and Sanitation; Use of Dairy Products, Eggs and Breakfast Cookery;, Sauces and Soups; Preparation, The Menu and Costing, Preparation and Cooking of Stocks; Cooking and use of Convenience Products; Preparation and Presentation of Cold Food and Cold Buffets; Planning and Organization of Work Activities; Preparation, Cooking and Storage of Food Items for Freezing and Chilling. There is a practical/theory final examination upon completion of the course.

HAIRSTYLING

HAIRSTYLING – Grade 9 – HS20S Introduction to Hairstyling
This is an introductory Hairstyling course. Students will learn to use the basic tools, products and styling techniques necessary to familiarize them with the Hairstyling Profession as a career choice. The course is approximately 70% practical and 30% theoretical.

HAIRSTYLING - HS20SA and HS20SB
Credit Value: 2 credits, 1 credit per course

A) **Basic Hairstyling**
B) **Basic Haircutting & Thermal Styling**

Students are encouraged to develop an artistic appreciation of the world of beauty and fashion. Students will perform skills such as shampooing and scalp treatments, facials, basic styling, permanent wave wrapping, French braiding, and much more. Evaluations are based on theoretical understanding and practical abilities. Students must register for both credits.

** **NOTE:** Students registered in the grade 11 or 12 program must sign up for all 4 credits**

HAIRSTYLING – HS20SS, HS30S, HS30SA, HS30SB

Related Salon Services
Intermediate Haircutting & Barbering
Hair Colouring
Intermediate Hairstyling

Credit Value: 4 courses, 1 credit per course
The grade 11 hairstyling courses, will focus on barbering techniques, and the continued development of haircutting implements. As well, an introduction to colour theory and the continued development of hair colouring techniques will also be explored. Curriculum content will also focus on wigs and hair enhancements along with wet and thermal hair styling techniques. The theory of permanent waving and chemical relaxing, as well as the practical application of permanent waving.

HAIRSTYLING – HS30SC, HS40SSA, HS40SSB, HS40SSC, HS40SSC

Chemical Texture Services
Advanced Hairstyling and Colouring
Advanced Haircutting and Chemical Texture
Salon Operation
Certificate Preparation

Credit Value: 4 courses, 1 credit per course
The grade 12 hairstyling courses, will focus on special effects hair colour, corrective colour, as well as advanced wet and thermal hairstyling techniques. Also, students will focus on advanced haircutting and permanent waving techniques, as well as practical application of chemical hair relaxers. The business operations of a hair salon, as well as the creation of a resume and career portfolio will be explored, and finally the preparation for students to successfully complete their Provincial Examination.

JEWELLERY AND METALSMITHING

8 credits necessary at the 30S and 40S levels with a grade of 70% or higher in each course.
There is no charge for course materials for high school students.

Exploration of Jewellery and Metalsmithing – JM10S (1 credit)
Students will explore the basic skills and techniques used to design and create jewellery projects such as pendants, bracelets and sterling silver rings. No previous jewellery and metalsmithing courses necessary.

Introduction to Jewellery and Metalsmithing – JM20S (1 credit)
Students will be introduced to the basic skills and explore more involved techniques to design and create jewellery projects. Techniques include sheet and wire construction for pendants and chain, lost wax casting to create sterling silver rings, and starting basic stone setting. No previous jewellery and metalsmithing courses necessary.

JM30SA & JM30SB (2 credits taken together)

Lost Wax Casting – JM30SA (1 credit)
Students will learn the lost wax casting process in detail to design and create a variety of projects in sterling silver such as rings, pendants, and belt buckles. No previous jewellery and metalsmithing courses necessary.

Basic construction and Soldering – JM30SB (1 credit)
Students will learn to design and construct jewellery projects from sheet and wire using techniques such as tabs, rivets, links and hard soldering in sterling silver. Prerequisite: taken with or after JM30SA.
JM30SC & JM30SD (2 credits taken together) Must have JM30SA and JM30SB credits.

Forging and Forming – JM30SC (1 credit)
Students will learn the forging and forming process of metalsmithing, and cabochon stone setting to design and formseveral jewellery projects in sterling silver.

Production – JM30SD (1 credit)
Students will learn production methods for making jewellery more efficiently. Students will work with sterling silver to design and produce a variety of jewellery projects using rubber molds, textures and wire bending jigs.

JM40SA & JM40SB (2 credits taken together) Must have JM30SC and JM30SD credits.

Advanced Construction and Soldering – JM40SA (1 credit)
Students will learn advanced soldering techniques such as hinges, box clasp, tubing and tube set stones incorporated into their designed sterling silver jewellery projects.

Gem Setting – JM40SB (1 credit)
Students will learn basic gemmology and set stones into their designed sterling silver jewellery pieces. Stone setting techniques such as bezel setting, basket settings and commercial claw settings will be incorporated into their soldered and cast projects.

JM40SC & JM40SD (2 credits taken together) Must have JM40SA and JM40SB credits.

Advanced Gem Setting – JM40SC (1 credit)
Students will learn advanced forms of stone setting to incorporate into their soldered and cast sterling silver jewellery projects. Techniques such as pearl setting, bead setting, rubbed setting and channel settings will be explored.

Repair – JM40SD (1 credit)
Students will learn how to document and repair broken jewellery items such as chains and clasps, ring resizing, stone tightening and claw retipping. Students will also explore metal testing and electro-plating metal.

Jewellery and Metalsmithing Studio – JM40SG (1 credit)
No previous jewellery and metalsmithing courses necessary. This course is designed for either the Grade 12 student who would like to learn some of the basic techniques of jewellery and metalsmithing, or the Grade 12 student who has completed the certificate course work and would like to do independent design and production work. Projects are made either constructed or cast in sterling silver.

POWER MECHANICS

POWER MECHANICS: Introduction to Auto Technology – PM15S (0.5 credit)
* taken with WE15S
This is an optional course intended for students wishing to sample automotive technology. The emphasis is on hands-on activities. Students are introduced to safety, tools and equipment, automotive systems and service procedures.

POWER MECHANICS: Auto Systems and Service – PM20S
A student wanting to develop skills in the automotive service and repair industry must have knowledge of the basic principles related to automotive systems and service. Students learn safety, tool and equipment, automotive systems and service procedures and are introduced to diagnosis strategies.
** **NOTE:** Students registered in the grade 11 or 12 program must sign up for all 4 credits

POWER MECHANICS - PM30SA, PM30SB, PM30SC, PM40SS
Credit Value: 4 courses, 1 credit per course
The 30S Power Mechanics course deals with the theory, operation and repair of major vehicle systems. Topics covered throughout the 2 semesters include:

Semester 1: (A) Engine Fund Service
(B) Chassis Fund Service
Semester 2: (C) Drivetrain Fund Service
(D) Special Applications

POWER MECHANICS - PM40SSA, PM40SSB, PM40SSC, PM40SSD
Credit Value: 4 courses, 1 credit per course
The 40S Power Mechanics course deals with the theory, operation and repair of advanced vehicle systems. Topics covered throughout the 2 semesters include:

Semester 1: (A) Auto Electrical Systems
(B) Vehicle Systems Part 1
Semester 2: (C) Vehicle Systems Part 2
(D) Diagnostic Strategies

ADDITIONAL CREDITS OPTIONS: at the 40S Level
(A) Power Mechanics Work Experience.
(B) Senior Years Apprenticeship Option
(C) Special Applications

On successful completion of these power mechanics courses, students who maintain a grade of 70% or higher, may be qualified for level 1 of the Provincial 'Motor Vehicle Mechanic' Automotive Apprenticeship Certificate.

WELDING

WELDING - WE15S (0.5 credit)
* taken with PM15S
This course is meant for students interested in exploring the Welding courses offered at the grade 10 to 12 levels. Students will be introduced to the many different skills involved in this vocation.

WELDING: Introduction - WE20S
The 20S course is an introduction to the welding trade. Students will learn how to weld with both oxyacetylene and mig welding equipment in a safe manner.

WELDING - WE30SSA, WE30SSB, WE30SSC
Credit Value: 3 courses, 1 credit per course
WE30S builds on the skills learned in WE20S and includes: Metal Design Fab Oxy-Acetylene, Basic MIG procedures and Basic ARC procedures.

WELDING - WE40SSA, WE40SSB, WE40SSC, WE40SSD
Credit Value: 4 courses, 1 credit per course
The 40S course refines WE20S and WE30S skills to include out-of-position arc welding. Many metal trades skills such as tig-welding, blue print reading, and metallurgy are included. Repair and construction projects are also undertaken. Students are tested by the Canadian Welding Bureau (CWB) at the end of the course.

On successful completion of these Welding courses, students who maintain a grade of 70% or higher, may be qualified for level 1 of the Provincial Industrial Welding Apprenticeship Certificate.

WOODS TECHNOLOGY

WOODS TECHNOLOGY - WT15G (0.5 credit)
*taken with EL15S
This is an introductory course that focuses on safe operation of machines/equipment and basic wood joinery. Throughout the half semester students will complete three projects with an option for a fourth (independent/ choice project).

WOODS TECHNOLOGY - WT20G
This is a continuation of WT15G. The course is designed to promote problem solving skills and help students acquire skills necessary to be able to contribute to society. Emphasis will be placed on planning and designing stages with students demonstrating the various skills through project work.

WOODS TECHNOLOGY - WT30SA and WT30SB

WOODS TECHNOLOGY - WT40SA and WT40SB
Emphasis will be placed on planning and designing with students demonstrating the various skills through project work. Students will participate in shop improvements and maintenance. Students will also be involved in prop building, design, and creation for various school events. Grade level projects will be assigned.

ACCELERATED TECHNOLOGY PROGRAMS
ATP is open to high school graduates or adults wishing to pursue a specialized area of technical education training. Interested students should see a school counselor for details regarding programs available and tuition fees.

HIGH SCHOOL APPRENTICESHIP PROGRAM
The High School Apprenticeship Program, (HSAP), is another means to earn both high school credits and credit towards an apprenticeship. The HSAP lets students start their apprenticeship training while still in high school. Students will have the opportunity to get hands-on experience using highly specialized, technological equipment while also earning up to 8 supplemental credits for graduation. The HSAP ensures students are also paid a wage that is more than the minimum average as well as applying the on-the-job training hours to continued, full-time apprenticeship training after graduation. Students should indicate on their registration form that they are interested in this program.

LIFE/WORKTRANSITION LF30S / LF40S
Students can register for this course at any level to explore potential occupations and to demonstrate employability skills, essential skills and specific occupational skills through work experience. Canada is on the verge of a workforce shortage that will create many new job opportunities. Students will be able to explore the possibilities of future careers while earning credits for graduation. This course is flexible and adaptable to the needs of the student, similar to the qualities individuals will need to succeed beyond high school.

INFORMATION COMMUNICATION TECHNOLOGY

The emphasis of ICT courses is on students learning to solve problems, accomplish tasks, and express creativity, both individually and collaboratively. Students will learn to use today's technology for tasks at school and in their personal lives.

DIGITAL TECHNOLOGY - DT15S (0.5 CREDIT)
* taken with PD15S
An introduction to exploring creative computer skills around the areas of: web pages, computer animation, 3D modeling, and Computer Science (programming). Examples (tutorials), skill assignments and creative projects (including optional group work) will be used. Software that could be used (time permitting) includes: Adobe Dreamweaver, FireWorks, Flash, Photoshop, SketchUp, Blender, GarageBand, and possibly others. If students enjoy or see potential in this course, further instruction is available in grade 10.

DIGITAL TECHNOLOGY – DT20S
This new grade 10 course is the introductory course for the program and starts with the basic skills of the program described above. Major units for the course include web development (33%), interactive design (50%), and user experience (17%). Assessment will be mostly based on practical assignments and projects.

COMPUTER SCIENCE

COMPUTER SCIENCE - CS20S

This course is an introduction to the study of Computer Science. Students will be introduced to the discipline of programming through introductory software like Scratch and/or Alice. Once established, formal programming instruction will take place starting in the Visual Basic programming language. If time permits, instruction will possibly look at languages like Java, C++, C#, or Flash's ActionScript. Students will learn important concepts like variables, conditional statements, loops, and functions. Students will work on practical programming problems, games, and have practical assignments. The course will end with students working on a major project of their own choosing (including video games). Applied or pre-calculus math skills are a recommendation for this course (though not a requirement). If students enjoy or see potential in this course, further instruction is available in grades 11 and 12. As well, students who wish to pursue more advanced study in Computer Science (e.g. in the I.B. or University preparatory) can talk to their Computer Science teacher to see if this option is available to them. A more detailed course description is available from the Computer Science teacher.

COMPUTER SCIENCE - CS30S

This course is designed for students who showed aptitude and enjoyed CS20S. Continuing study from topics learned in CS20S, students will design their own 'curriculum' and assessment preferences within a framework of topics towards what they wish to get out of the course. Students will learn a second programming language (and potentially two more). Java, C#, C++, or Flash's ActionScript are all languages that could be explored in this course depending on the enthusiasm of the class. The CS20S topics will be briefly reviewed and then move to new topics such as: functions, arrays, classes/objects, GUIs/graphics, file handling, and advanced algorithms (searching and sorting). Students will have more practical programming problems and more choice in their complexity (based on time available) and then finish the year working on a new, more advanced final project (including video games). Students serious about studying Computer Science or students who do well in this course can move into the grade 12 option. As well, students who wish to pursue more advanced study in Computer Science (e.g. in the I.B. or University preparatory) can talk to their Computer Science teacher to see if this option is available to them. A more detailed course description is available from the Computer Science teacher.

COMPUTER SCIENCE - CS40S

This course is designed for students planning to take Computer Science in their post-secondary careers (or as a serious hobby), or for students who showed aptitude and enjoyed CS30S. Students will be surveyed on interest, and purpose. From this, students will design their own 'curriculum' and assessment preferences within a framework of topics towards what they wish to get out of the course. Based on time available and student purpose, potential topics could include: advanced classes, advanced GUIs/Graphics, recursion, linked lists, stacks/queues, binary trees, algorithm efficiency, data representation, Boolean logic, as well as other non-programming Computer Science areas like architecture and social significance. Students will have more choice in assignments and complexity (based on time available) and will finish the year working on a new, more advanced final project (including video games). As well, students who wish to pursue more advanced study in Computer Science (e.g. in the I.B. or University preparatory) can talk to their Computer Science teacher to see if this option is available to them. A more detailed course description is available from the Computer Science teacher.

St. James-Assiniboia Diploma Planning Sheets

Provincial Diploma

NOTE: Students completing a St. James Academic or Advanced Academic will automatically receive a Provincial Diploma

Grade 9		Grade 10		Grade 11		Grade 12	
Compulsory	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**
English 10F	1.0	English 20F	1.0	English 30S	1.0	English 40S	1.0
Mathematics 10F	1.0	Mathematics 20S	1.0	Mathematics 30S	1.0	Mathematics 40S	1.0
Phys. Ed. 10F	1.0	Phys. Ed. 20F	1.0	Phys. Ed 30F	1.0	Phys. Ed 40F	1.0
Social Studies 10F	1.0	Geography 20F	1.0	History 30F	1.0	Grade 12 Option #1	1.0
Science 10F	1.0	Science 20F	1.0			Grade 12 Option #2	1.0
School Based Options		**School Based Options**		**School Based Options**		**School Based Options**	
Option 1 (required)	1.0	Option 1 (required)	1.0	Option 1(required)	1.0	Option 1 (required)	1.0
Option 2 (required)	1.0	Option 2 (required)	1.0	Option 2 (required)	1.0	Option 2	
Option 3 (required)	1.0	Option 3 (required)	1.0	Option 3		Option 3	
Option 4 (required)	1.0	Option 4 (required)	1.0	Option 4		Option 4	
Option 5		Option 5 (required)	1.0	Option 5		Option 5	

NOTE: 30 credits are the minimum requirements for graduation

St. James-Assiniboia School Division - Academic Certificate

Grade 9		Grade 10		Grade 11		Grade 12	
Compulsory	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**
English 10F	1.0	English 20F	1.0	English 30S	1.0	English 40S	1.0
Mathematics 10F	1.0	Mathematics 20S	1.0	Mathematics 30S	1.0	Mathematics 40S	1.0
Phys. Ed. 10F	1.0	Phys. Ed. 20F	1.0	Phys. Ed 30F	1.0	Phys. Ed 40F	1.0
Social Studies 10F	1.0	Geography 20F	1.0	History 30F	1.0	Grade 12 Option #1	1.0
Science 10F	1.0	Science 20F	1.0			Grade 12 Option #2	1.0
Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Communtiy Service Hrs	10 Hrs
School Based Options		**School Based Options**		**School Based Options**		**School Based Options**	
Option 1 (required)	1.0	Option 1 (required)	1.0	Option 1(required)	1.0	Option 1 (required)	1.0
Option 2 (required)	1.0	Option 2 (required)	1.0	Option 2 (required)	1.0	Option 2	
Option 3 (required)	1.0	Option 3 (required)	1.0	Option 3		Option 3	
Option 4 (required)	1.0	Option 4 (required)	1.0	Option 4		Option 4	
Option 5		Option 5 (required)	1.0	Option 5		Option 5	

NOTE: 30 credits are the minimum requirements for graduation

Technology- Vocational Education Certificate

Grade 9		Grade 10		Grade 11		Grade 12	
Compulsory	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**
English 10F	1.0	English 20F	1.0	English 30S	1.0	English 40S	1.0
Mathematics 10F	1.0	Mathematics 20S	1.0	Mathematics 30S	1.0	Mathematics 40S	1.0
Phys. Ed. 10F	1.0	Phys. Ed. 20F	1.0	Phys. Ed 30F	1.0	Phys. Ed 40F	1.0
Social Studies 10F	1.0	Geography 20F	1.0	History 30F	1.0	Grade 12 Option #1	1.0
Science 10F	1.0	Science 20F	1.0			Grade 12 Option #2	1.0
Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Communtiy Service Hrs	10 Hrs
School Based Options		**School Based Options**		**School Based Options**		**School Based Options**	
Option 1 (required)	1.0	Aviation 20S	1.0	Aviation 30S	2.0	Aviation 40S	1.0
Option 2 (required)	1.0	Electronics 20S	1.0	Electronics 30S	2.0	Electronics 40S	1.0
Option 3 (required)	1.0	Hairstyling 20S	2.0	Hairstyling 30S	1.0	Hairstyling 40S	4.0
Option 4 (required)	1.0	Food Services 20S	1.0	Food Services 30S	4.0	Food Services 40S	4.0
Option 5		Graphic Arts 20S	1.0	Graphic Arts 30S	2.0	Graphic Arts 40S	4.0
		Jewellery Arts 20S	1.0	Jewellery Arts 30S	4.0	Jewellery Arts 40S	4.0
		Media Production 20S	1.0	Media Production 30S	2.0	Media Production 40S	2.0
		Power Mechanics 20S	1.0	Power Mechanics 30S	4.0	Power Mechanics 40S	4.0
		Welding 20S	1.0	Welding 30S	2.0	Welding 40S	4.0
		Wood Technology 20S	1.0	Wood Technology 30S	2.0	Wood Technology 40S	2.0

***See your counselor for post-secondary entrance requirements.**

NOTE: 30 credits are the minimum requirements for graduation.

Provincial French Immersion Diploma

NOTE: students completing a St. James Academic or Advance Academic will automatically receive a Provincial Diploma. A minimum of 14 credits from courses taught in French are required to obtain a diploma in French Immersion. At each grade in grade 9 and 10, a minimum of 4 credits must be completed in French and at each grade in grade 11 and 12 a minimum of 3 credits must be completed in French.

Grade 9		Grade 10		Grade 11		Grade 12	
Compulsory	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**
English 10F	1.0	English 20F	1.0	English 30SC	1.0	English 40SC	1.0
Phys. Ed 10F	1.0	Phys. Ed 20F	1.0	Phys. Ed. 30F	1.0	Phys. Ed. 40F	1.0
Français 10FX	1.0	Français 10FX	1.0	Français 10SX	1.0	Français 40SX	1.0
Mathés 10FX	1.0	Mathés 10SX	1.0	**Min. 2 of the following courses**		**Min. 2 of the following courses**	
Sciences 10FX	1.0	Sciences 10FX	1.0	Mathés 30SX***	1.0	Mathés 40SX ***	1.0
Sc. Humaines 10GX	1.0	Géographie 20FX	1.0	Histoire 30FX***	1.0	Histoire 40SX	1.0
				Biologie 30SX	1.0	Biologie 40SX	1.0
				Chimie 30SX	1.0	Chimie 40SX	1.0
School Based Options		**School Based Options**		**School Based Options**		**School Based Options**	
Option 1 (required)	1.0	Option 1 (required)	1.0	Option 1 (required)	1.0	Option 1 (required)	1.0
Option 2 (required)	1.0	Option 2 (required)	1.0	Option 2		Option 2	
Option 3 (required)	1.0	Option 3 (required)	1.0	Option 3		Option 3	
Option 4		Option 4 (required)	1.0	Option 4		Option 4	
Option 5		Option 5		Option 5		Option 5	

NOTE: 30 credits are the minimum requirements for graduation

St. James-Assiniboia School Division – French Immersion Academic Certificate

Grade 9		Grade 10		Grade 11		Grade 12	
Compulsory	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**
English 10F	1.0	English 20F	1.0	English 30SC	1.0	English 40SC	1.0
Phys. Ed 10F	1.0	Phys. Ed 20F	1.0	Phys. Ed. 30F	1.0	Phys. Ed. 40F	1.0
Français 10FX	1.0	Français 10FX	1.0	Français 10SX	1.0	Français 40SX	1.0
Mathés 10FX	1.0	Mathés 10SX	1.0	Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs
Sciences 10FX	1.0	Sciences 10FX	1.0	**Min. 2 of the following courses**		**Min. 2 of the following courses**	
Sc. Humaines 10FX	1.0	Géographie 20FX	1.0	Mathés 30SX***	1.0	Mathés 40SX ***	1.0
Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Histoire 30FX***	1.0	Histoire 40SX	1.0
				Biologie 30SX	1.0	Biologie 40SX	1.0
				Chimie 30SX	1.0	Chimie 40SX	1.0
School Based Options		**School Based Options**		**School Based Options**		**School Based Options**	
Option 1 (required)	1.0	Option 1 (required)	1.0	Option 1 (required)	1.0	Option 1 (required)	1.0
Option 2 (required)	1.0	Option 2 (required)	1.0	Option 2		Option 2	
Option 3 (required)	1.0	Option 3 (required)	1.0	Option 3		Option 3	
Option 4		Option 4 (required)	1.0	Option 4		Option 4	
Option 5		Option 5		Option 5		Option 5	

NOTE: 30 credits are the minimum requirements for graduation

French Immersion Technology Education Certificate

Grade 9		Grade 10		Grade 11		Grade 12	
Compulsory	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**
English 10F	1.0	English 20F	1.0	English 30SC	1.0	English 40SC	1.0
Phys. Ed 10F	1.0	Phys. Ed 20F	1.0	Phys. Ed. 30F	1.0	Phys. Ed. 40F	1.0
Français 10FX	1.0	Français 10FX	1.0	Français 10SX	1.0	Français 40SX	1.0
Mathés 10FX	1.0	Mathés 10SX	1.0	Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs
Sciences 10FX	1.0	Sciences 10FX	1.0	**Min. 2 of the following courses**		**Min. 2 of the following courses**	
Sc. Humaines 10FX	1.0	Géographie 20FX	1.0	Mathés 30SX***	1.0	Mathés 40SX ***	1.0
Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Histoire 30FX***	1.0	Histoire 40SX	1.0
				Biologie 30SX	1.0	Biologie 40SX	1.0
				Chimie 30SX	1.0	Chimie 40SX	1.0
School Based Options		**School Based Options**		**School Based Options**		**School Based Options**	
Option 1 (required)	1.0	Aviation 20S	1.0	Aviation 30S	2.0	Aviation 40S	1.0
Option 2 (required)	1.0	Electronics 20S	1.0	Electronics 30S	2.0	Electronics 40S	1.0
Option 3 (required)	1.0	Hairstyling 20S	2.0	Hairstyling 30S	1.0	Hairstyling 40S	4.0
Option 4(required)		Food Services 20S	1.0	Food Services 30S	4.0	Food Services 40S	4.0
		Graphic Arts 20S	1.0	Graphic Arts 30S	2.0	Graphic Arts 40S	4.0
		Jewellery Arts 20S	1.0	Jewellery Arts 30S	4.0	Jewellery Arts 40S	4.0
		Media Productions 20S	1.0	Media Productions 30S	2.0	Media Productions 40S	2.0
		Power Mechanics 20S	1.0	Power Mechanics 30S	4.0	Power Mechanics 40S	4.0
		Welding 20S	1.0	Welding 30S	2.0	Welding 40S	4.0
Option 5		Wood Technology 20S	1.0	Wood Technology 30S	2.0	Wood Technology 40S	2.0

***See your counselor for post-secondary entrance requirements.**

*****Denotes that these courses are compulsory for graduation. If not completed in French, they must be taken in English.**

NOTE: 30 credits are the minimum requirements for graduation.

International Baccalaureate Diploma Planning Sheets

Collège Sturgeon Heights Collegiate – International Baccalaureate – English

Grade 9		Grade 10		Grade 11		Grade 12	
Compulsory	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**
English 10F	1.0	English 20PB	1.0	English 30IB	1.0	English 42IB	1.0
French 10G	1.0	French 20PB	1.0	French 40IB	1.0	French 42IB	1.0
Mathematics 10F	1.0	Mathematics 20PB	1.0	Mathematics 40IB	1.0	Mathematics 42IB	1.0
Social Studies 10F	1.0	Science 20PB	1.0	Chemistry 30IB	1.0	History 42IB	1.0
Science 10F	1.0	History 30IB	1.0	History 32IB	1.0	Phys. Ed. 40F	1.0
Phys. Ed 10F	1.0	Phys. Ed. 20F	1.0	Phys. Ed. 30F	1.0	TK42IB	0.5
Geography 20F	1.0	French 32IB	1.0	Chemistry 42IB	1.0		
		Mathematics 30IB	1.0	TK32IB	0.5		
				Comm, Action, Service 32S	C.A.S.	Comm, Action, Service 42S	C.A.S.
				Students must choose one of either:		**Students must choose one of either:**	
				Biology 30IB	1.0	Biology 40IB Biology 42IB (HL)	2.0
				Physics 30IB	1.0	Physics 40IB Physics 42IB (HL)	2.0
Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs
School Based Options		**School Based Options**		**School Based Options**		**School Based Options**	
Option 1 (required)	1.0	Option 1 (required)	1.0	Option 1		Option 1	
Option 2 (required)	1.0	Option 2 (required)	1.0	Option 2		Option 2	
		Option 3		Option 3		Option 3	

****The Community Service hours are not required for IB Diploma students who complete their C.A.S.**
***See your counselor for post-secondary entrance requirements.**
NOTE: 30 credits are the minimum requirements for graduation.
All I.B. (including certificate) students must consult with the I.B. coordinator when selecting courses

Collège Sturgeon Heights Collegiate – International Baccalaureate – French Immersion

Grade 9		Grade 10		Grade 11		Grade 12	
Compulsory	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**
English 10F	1.0	English 20PB	1.0	English 30IB	1.0	English 42IB	1.0
Français 10FX	1.0	Français 20PBX	1.0	Français 40IBX	1.0	Français 42IBX	1.0
Mathés 10FX	1.0	Mathés 20PBX	1.0	Mathés 40IBX	1.0	Mathematics 42IB	1.0
Sciences 10FX	1.0	Sciences 20PBX	1.0	Chimie 30IBX	1.0	History 42IB	1.0
Sc. Humaines 10FX	1.0	Histoire 30IBX	1.0	History 32IB	1.0	Phys. Ed. 40F	1.0
Phys. Ed. 10F	1.0	Phys. Ed. 20S	1.0	Phys. Ed. 30F	1.0	TK42IB	0.5
Géographie 20F	1.0	Français 32IBX	1.0	Chimie 42IBX	1.0		
		Mathés 30IBX	1.0	TK32IB	0.5		
			1.0	Comm., Action, Service 32S		Comm, Action, Service 42S	C.A.S.
				Students must choose one:		**Students must choose one:**	
				Biology 30IB	1.0	Biology 40IB Biology 42IB (HL)	2.0
				Physics 30IB	1.0	Physics 40IB Physics 42IB (HL)	2.0
Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs	Community Service Hrs	10 Hrs
School Based Options		**School Based Options**		**School Based Options**		**School Based Options**	
Option 1 (required)	1.0	Option 1 (required)	1.0	Option 1		Option 1	
Option 2 (required)	1.0	Option 2 (required)	1.0	Option 2		Option 2	
Option 3 (required)	1.0	Option 3		Option 3		Option 3	

***See your counselor for post-secondary entrance requirements.**
NOTE: 30 credits are the minimum requirements for graduation.
All I.B. (including partial I.B.) students must consult with the I.B. coordinator when selecting courses.

International Baccalaureate Diploma Planning Sheets

Westwood Collegiate – International Baccalaureate (For the 2016-17 School Year)

Grade 9		Grade 10		Grade 11		Grade 12	
Compulsory	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**	**Compulsory**	**Credit**
English 10F	1.0	English 20PB	1.0	Group 1 Course	1.0	Group 1 Course	1.0
French 10G	1.0	Mathematics 20IB	1.0	Group 2 Course	1.0	Group 2 Course	1.0
Mathematics 10F	1.0	Mathematics 30IB	1.0	Group 3 Course	1.0	Group 3 Course	1.0
Phys. Ed. 10F	1.0	Science 20F/PB	1.0	Group 4 Course	1.0	Group 4 Course	1.0
Science 10F	1.0	French 20FPB	1.0	Group 5 Course	1.0	Group 5 Course	1.0
		Geography 20IB	1.0	Group 6 Course*	1.0	Group 6 Course*	1.0
		History 30IB	1.0	Phys. Ed 30F	1.0	Phys. Ed 40F	1.0
		Phys. Ed. 20F	1.0	Theory of Knowledge 32IB	0.5	Theory of Knowledge 42IB	0.5
				Comm., Action, Service (C.A.S.) 32IB		Comm., Action, Service (C.A.S.) 42IB	
Community Service Hrs	**10 Hrs**	**Communtiy Service Hrs**	**10 Hrs**	**Community Service Hrs**	**10 Hrs**	**Communtiy Service Hrs**	**10 Hrs**
School Based Options		**School Based Options**		**Diploma students must select a minimum of 3 Standard Level (SL) courses and 3 Higher Level (HL) courses.**		**Diploma students must select a minimum of 3 Standard Level (SL) courses and 3 Higher Level (HL) courses.**	
Option 1 (required)	1.0	Option 1 (required)	1.0	Group 1 Courses English 32IB - HL	1.0	Group 1 Courses English 40IB - HL English 42IB - HL	1.0
Option 2 (required)	1.0	Option 2 (required)	1.0	Group 2 Courses French 32IB - SL Spanish 32IB - SL	1.0	Group 2 Courses French 42IB - SL Spanish 42IB - SL	1.0
Option 3 (required)	1.0	Option 3		Group 3 Courses History 40IB - HL Psychology 32IB - HL	1.0	Group 3 Courses History 42IB - HL Psychology 42IB - HL	1.0
Option 4		Option 4		Group 4 Courses Biology 32IB - SL OR Biology 32IB- HL Chemistry 32IB - SL Physics 32IB - SL	1.0	Group 4 Courses Biology 42IB - SL OR Biology 40IB- HL Biology 42IB- HL Chemistry 42IB - SL Physics 42IB - SL	1.0
				Group 5 Courses Math 40IB - SL	1.0	Group 5 Courses MA42IB - SL	1.0
				Group 6 Courses Visual Art 32IB Theatre Art - SL Dance 32IB - SL Film Studies - SL	1.0	Group 6 Courses Visual Art 42IB - SL Theatre Art - SL Dance 32IB - SL Film Studies - SL	1.0

***See your counselor for post-secondary entrance requirements.**
NOTE: 30 credits are the minimum requirements for graduation.
The Community Service hours are not required for IB Diploma students who complete their C.A.S.
All I.B. (including certificate) students must consult with the I.B. coordinator when selecting courses.

Mature Student Graduation Requirements - Minimum of 8 credits

Compulsory Credits	Optional Credits
Grade 12, English Language Arts Grade 12, Mathematics	Grade 12, Course 1 Grade 12, Course 2 Grade 9 – 12, Course 1 Grade 9 – 12, Course 2 Grade 9 – 12, Course 3 Grade 9 – 12, Course 4

Mature Student Eligibility
A "mature student" eligible for obtaining a Mature Student High School Diploma under the grade 9 to grade 12 Mature Student Graduation Requirements is one who:

- o Is 19 years of age or over at the time of enrolment in school division/district or ALC programming directed at completing the Mature Student Graduation Requirements, or one who will reach the age of 19 before completion of the course(s) in which one is enrolled;

- o Has been out of school six months or more, and out of school long enough for the class, of which one was last a member, to have graduated from Senior Years; and

- o Has not obtained a high school diploma. Students can enroll in a school division/district or Adult Learning Centre for the purpose of obtaining the Mature Student High School Diploma if they are eligible as described above.

Other requirements

- o Courses designated as G (General), F (Foundation), S (Specialized), A (Advanced), M (Modified), E (English as a Second Language), U (University), and C (College) are accepted for Mature Student Graduation Requirements.

- o Mature students are required to write grade 12 standards tests in compulsory subject areas. Exemptions can be made in accordance with the Department's current Policies and Procedures for Standards Tests, available online at <www.edu.gov.mb.ca/k12/assess/ publications.html>.

Resources

Visit Manitoba Education and Advanced Learning for more information about the Senior Years.

http://www.edu.gov.mb.ca/k12/

Visit these institutional websites for post-secondary program information.

University of Manitoba
http://www.umanitoba.ca/

University of Winnipeg
http://www.uwinnipeg.ca/

Red River College
http://www.rrc.mb.ca/

Brandon University
http://www.brandonu.ca/

Collège Universitaire de Saint-Boniface
http://www.ustboniface.mb.ca/

Canadian Mennonite University
http://www.cmu.ca/