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COURSE HANDBOOK



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WELCOME TO COLLÈGE STURGEON HEIGHTS COLLEGIATE

Mission Statement

Collège Sturgeon Heights Collegiate is committed to developing global citizens with inquiring minds and compassionate hearts.

Vision

Collège Sturgeon Heights Collegiate will provide diverse educational opportunities that prepare students to be responsible citizens of an ever-changing society.

Values

At Collège Sturgeon Heights Collegiate, we value:

- Students equally
- A safe, caring, and respectful learning environment
- Diverse and relevant programming
- Positive connections between staff & students
- Education of the whole person
- The pursuit of personal excellence
- A strong work ethic
- Self-esteem, motivation, and independence
- Analytical and critical thinking
- Curiosity and creativity
- Essential communication skills
- Student support services
- Partnerships with parents and community
- Local and global responsibility

PRINCIPAL'S MESSAGE

On behalf of the staff of Collège Sturgeon Heights Collegiate, I welcome you to the 2023-2024 school year. The information that you will find in this handout is intended to help you to understand the workings of the school and the expectations of all students. College Sturgeon Heights Collegiate is a great school that offers the widest range of programming and co-curricular activities in the province. I hope that you take the opportunity to work hard in your classes and to get involved in some of the many activities available to you.

Have a great year.

George Valentim
Principal/Directeur

HOW TO USE THIS HANDBOOK

Read the introductory pages of this handbook carefully. They contain information that will help you choose the program of study that is right for you.

Courses offered at College Sturgeon Heights Collegiate are listed by departments, beginning on page XX.

Not every course is offered every year. Course offering is dependent on student enrolment and interest, as well as school staffing.

Assistance with course selection is available from Student Services, Administration, and classroom teachers.

REGISTRATION

Applications for the 2023 – 2024 school year will be available in February 2023.

Students/Caregivers residing in the catchment area will be supplied with a registration form. A caregiver signature is required on this form. Students new to the catchment area must be accompanied by a caregiver upon registration. Additional proof of residence documentation (e.g., birth certificate; MB Health card, lease agreement, driver's license) may be required.

For a student living in the St. James-Assiniboia School Division (SJASD) area wanting to express their interest in attending a school for 2023-2024 in the SJASD out of their catchment area, the SJASD's school webpages will have a link for an online form for the waitlist. **All students must first register at their catchment area school before submitting their interest in registering out-of-catchment.**

Students new to Manitoba must have their standing assessed by an administrator prior to completing registration. New students must be accompanied by a caregiver upon registration. Additional proof of residence documentation (e.g. birth certificate; MB Health card, lease agreement, driver's license) may be required.

Students from out of Division must be accompanied by a caregiver upon registration. Additional proof of residence documentation (e.g. birth certificate; MB Health card, lease agreement, driver's license) may be required.

Special Notes

Give careful consideration to courses selected. In many instances it may 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.

- Grade 9 and 10 students are recommended to be fully timetabled for both semesters (no spares).
- Grade 11 and 12 students are expected to register for a minimum of six credits, but eight is recommended.

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.

HONOURS & AWARDS OF RECOGNITION

CERTIFICATES & DIPLOMAS

The **St. James-Assiniboia School Division Certificate** is awarded to students who have completed 40 hours of community service.

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.

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. Community Service Hours and the requisite credit count are required to attain a St. James-Assiniboia School Division diploma. Community Service Hours are also required to be considered for any SJASD School Board bursary or award.

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.sjasd.ca in our policy manual.

Students will select one or more community involvement activities in consultation with their parents. Selection of activities should consider 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 18 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.

SCHOLARSHIPS, BURSARIES & AWARDS

GOVERNOR GENERAL'S MEDAL

This BRONZE medal is a nationally recognized honour and therefore the most prestigious award a student can receive in SJASD. It 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 year's 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 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 7 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 6 at the grade 12 level, except for 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 7 grade 9 credits
 - Grade 10 – a minimum of 8 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 6 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 weighted according to their credit value 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.

SCHOOL ORGANIZATION

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 first and second characters are letters, the third and fourth are numbers and the remaining characters are letters.

BELL SCHEDULE

Period	Regular School Day	First and Third Tuesday of Every Month	Second and Forth Tuesday of Every Month
1	8:30 – 9:38	9:00 – 10:00	9:00 – 10:00
2	9:41 – 10:52	10:02 – 11:02	10:02 – 11:02
3	10:55 – 12:03	11:05 – 12:05	11:05 – 12:05
4 Lunch	12:05 – 1:08	12:05 – 1:08	12:05 – 1:08
5	1:11 – 2:19	1:11 – 1:50	1:11 – 2:19
6	2:22 – 3:30	1:53 – 2:35	2:22 – 3:30

STUDENT SERVICES

Counselors and resource teachers, as well as representatives from AFM, and WRHA are available to provide services for students, parents, and staff. Anyone wishing to see a counselor or resource staff is encouraged to arrange appointments with them directly or call the school and leave a voicemail message.

The Student Services personnel can assist students, parents, and staff in numerous areas:

- Course selection, changes, and program planning
- Information on post-secondary institutions
- Academic concerns, support
- Part time and summer employment opportunities
- Individual academic assessments
- Career exploration and planning
- InForMNet, Independent Study Option and other options
- Personal/social/emotional concerns
- Referrals to appropriate agencies and services*

*Please note: A social worker, a psychologist and an audio-speech therapist are available to students for special testing, counseling, and other referral services. Appointments can be made in the office.

CREDIT SYSTEM & CODES

A credit is earned by successfully completing 110 hours of instruction. A half-credit represents 55 hours of instruction. Students must earn a minimum of 30 credits to graduate from high school.

Each course is assigned an alpha-numeric code formed as follows:

First 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

Second Character

- 0 – developed or approved by Manitoba Education for 1 credit
- 5 – developed or approved by Manitoba Education for ½ credit
- 1 – developed by school or division. These courses may be full or ½ credit courses.
- 2 – Advanced Placement (AP) courses

Third Character

F – Foundation: educational experiences, which are broadly based and compulsory for all students.

G – General: general education experiences for all students.

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

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.

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.

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

AP – Advanced Placement courses recognized for credit at most post-secondary institutions.

X – French Immersion - Courses with French instruction and eligible for a French Immersion Diploma high school provincial academic graduation requirements

ENGLISH PROGRAM

Grade 9	Grade 10	Grade 11	GRADE 12
Compulsory – 5 credits	Compulsory -5 credits	Compulsory – 4 credits	Compulsory – 3 credits
English – 1 credit	English – 1 credit	English – 1 credit	English – 1 credit
Mathematics - 1 credit	Mathematics – 1 credit	Mathematics – 1 credit	Mathematics – 1 credit
Physical Education – 1 credit	Physical Education – 1 credit	Physical Education – 1 credit	Physical Education – 1 credit
Canada in the Contemporary World – 1 credit	Geography – 1 credit	History of Canada – 1 credit	
Science – 1 credit	Science – 1 credit		
Options – 4 credits	Options – 5 credits	Options – 2 credits	Options – 2 credits
9 credits	10 credits	6 credits (or more)	6 credits (or more)

FRENCH IMMERSION PROGRAM

Grade 9	Grade 10	Grade 11	GRADE 12
Compulsory – 6 credits	Compulsory - 6 credits	Compulsory – 5 credits	Compulsory – 4 credits
Français– 1 credit	Français – 1 credit	Français – 1 credit	Français – 1 credit
English – 1 credit	English – 1 credit	English – 1 credit	English – 1 credit
Mathématiques – 1 credit	Mathématiques – 1 credit	Mathématiques – 1 credit	Mathématiques – 1 credit
Physical Education – 1 credit	Physical Education – 1 credit	Physical Education – 1 credit	Physical Education – 1 credit
Canada dans le monde contemporain – 1 credit	Géographie – 1 credit	Histoire du Canada – 1 credit	
Sciences de la nature - 1 credit	Sciences de la nature – 1 credit		
Options – 3 credits	Options – 4 credits	Options – 1 credit	Options – 1 credit
9 credits	10 credits	6 credits (or more)	5 credits (or more)

ADVANCED PLACEMENT

The Advanced Placement Program (AP) enables willing and academically prepared students to pursue college-level studies while still in high school. The program consists of college-level courses developed by the AP Program that high schools can choose to offer, and corresponding exams that are administered once a year.

For more information:

<https://ap.collegeboard.org/>

FRENCH IMMERSION

The goal of the French Immersion Program is to empower students to become independent, lifelong, linguistic learners. In our French Immersion Program, all students have access to a culturally diverse and rich linguistic environment where they learn to communicate with confidence, spontaneity, fluency and accuracy in oral and written French and English. 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

SKILLED TRADES & TECHNOLOGY

At Sturgeon Heights, we value Skilled Trades & Technology as a means for students to prepare for various careers within the trades. Our goal is to provide our students with training through education and the use of industry standard tools and equipment. Students in some programs will receive a Vocational Education diploma in their respected area of study or even Journeyman hours towards their Red Seal certification. Our students continue their path after high school by working in industry or attending post-secondary colleges provided they meet the entrance requirements.

ADVANCED PLACEMENT COURSE DESCRIPTIONS

Advanced Placement (AP) provides students with the opportunity to experience university-level work while in high school. Each highlighted course is a combination of Provincial and Advanced Placement curriculums which are taught simultaneously. Students take AP courses from **September to June** and earn **2 credits** for each successfully completed course. By registering for an Advanced Placement course from the list below, the student agrees to take the course from September to June. If a student chooses not to complete the entire course, no credits will be awarded.

Advanced Placement courses being offered at Collège Sturgeon Heights Collegiate for the 2023 – 2024 school year are listed below. If you are a grade 11 or 12 student, use the table to select the AP course(s) you wish to take.

AP BIOLOGY – BI42AP

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions.

AP CALCULUS AB – MA42SAP

AP Calculus AB is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

AP CHEMISTRY – CH42AP

AP Chemistry is an introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy.

AP COMPARATIVE GOVERNMENT AND POLITICS – CG42AP

AP Comparative Government and Politics is an introductory college-level course in comparative government and politics. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis.

AP COMPUTER SCIENCE A – CS42AP

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

AP English Language/LITERATURE and Composition – EN42AP

This is an introductory college-level literary analysis and course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style.

AP Physics 1: Algebra-Based – PH42AP

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves.

Laboratory Requirement and Lab Notebooks

Laboratory experience must be part of the education of AP Physics students and should be included in all AP Physics courses. Colleges may require students to present their laboratory materials from AP science courses before granting college credit for laboratory, **so students are encouraged to retain their laboratory notebooks, reports, and other materials.**

AP French Language and Culture – FR42AP

AP French Language and Culture is equivalent to an intermediate level college course in French. Students cultivate their understanding of French language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.

CREATIVE ARTS COURSE DESCRIPTIONS

BAND

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, Oct. 1 & Feb.1). All payments must be done through School Cash Online.

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.

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.

CONCERT 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 MB10SS are part of the grade 9 Concert Band and 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.

CONCERT BAND - MB20SS

Students registered for Band 20S are part of the grade 10 Concert Band and 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.

CONCERT BAND - MB30SS

Students in grade 11 who register for Band are considered to be part of the Symphonic Band and will attend both full band classes and smaller sectional classes as required by the director. 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.

CONCERT BAND - MB40SS

Students in grade 12 who register for Band are considered to be part of the Symphonic Band and 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.

JAZZ BAND –

MJ10SS, MJ20SS, MJ30SS, MJ40SS

These courses are designed for interested students who would like to further their music education. 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.

NOTE: Jazz Band students must also be registered for Concert Band (MB10SS, MB20SS, MB30SS, MB40SS).

CHORAL

CHOIR - MC10SS, MC20SS, MC30SS, MC40SS

This course is open to all students in Grades 9 - 12, regardless of prior singing / choral experience. Students in Concert Choir will sing a variety of high-quality choral compositions of various genres including folk, contemporary, musical theatre, classical, and pop. Students will learn about healthy vocal production (breathing, vowels, tone, vocal health) and how to sing within a choral ensemble (balance, blend). Students will participate in sight singing and music theory to develop their skills as a musician and work toward independent music making skills. Several performance opportunities occur throughout the course including Choral Fest, the Winnipeg Music Festival, and school concerts. Participation in concerts is a required part of this course.

VOCAL JAZZ - VJ20SS, 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.

NOTE: Vocal Jazz Students must also be registered for Concert Choir (MC20SS, MC30SS, MC40SS).

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.

DRAMA – DR10SS

Drama 10SS is designed to introduce students to the world of Theatre. 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.

DRAMA – DR20SS

This course is a continuum of DR10SS. 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.

DRAMA – DR30SS

Drama 30SS 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.

DRAMA – DR40SS

Drama 40S is a required university course if the student is considering continuing their study in Dramatic Arts at the university level. Students will have the opportunity to participate in Manitoba Theatre Centre 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 –

MT15SS, MT25SS, MT35SS, MT45SS

The musical theatre course encourages students to develop their acting, singing, and dancing skills with the 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 a part of group work and gaining self-confidence through artistic expression.

THEATRE PRODUCTION – TP20SS

Theatre Production 20SS 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 through 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 coordination 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 PRODUCTION – TP30SS

Theatre Production 30SS will allow the student to further expand on the concepts studied in Theatre Production 20SS. 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. 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 PRODUCTION -TP40SS

Theatre Production 40SS will allow the students to further expand on the concepts studied in Theatre Production 30SS. 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. 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) and self-evaluation.

VISUAL ART

VISUAL 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.

VISUAL ART – VA20SS

Art 20SS 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.

VISUAL 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.

VISUAL 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.

COMPUTER SCIENCE COURSE DESCRIPTIONS

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). 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.

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).

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).

ENGLISH COURSE DESCRIPTIONS

English is a required course from Grade 9 to Grade 12. English courses teach students to use language as a means of understanding themselves and the world around them. Courses focus on the development of thinking, reading, speaking, writing, viewing, representing, and listening and aim to develop an appreciation of all types of expressed thought.

“Aesthetic” and “Pragmatic” are terms that describe the way language is used.

We use aesthetic (literary) language for creative and imaginative purposes. Aesthetic language is used in novels, poems, plays, and short stories.

We use pragmatic (transactional) language out of necessity to conduct our lives. Pragmatic language is used in biography, documentary film, journalism, advertising, resumes, proposals, and reports.

GRADE 9 ENGLISH

ENGLISH LANGUAGE ARTS – EN10F

In the 10F course, students express their ideas using the six English language arts of reading, writing, listening, speaking, viewing, and representing. 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.

GRADE 10 ENGLISH

ENGLISH LANGUAGE ARTS - EN20F

In the grade 10 course, students complete 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.

GRADE 11 ENGLISH

ENGLISH: TRANSACTIONAL FOCUS – EN30ST

Students will focus on transactional or practical language and non-fiction texts, with 70% of course time and course content devoted to analysis and creation of biographies, articles, editorials, speeches, documentary films, and multimedia presentations. The remaining 30% is devoted to analysis and creation of literary forms such as short stories, drama, and lyrics or poetry. Students will read fiction or non-fiction texts daily.

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.

NOTE: This course is intended for students who wish to pursue AP English in Grade 12.

GRADE 12 ENGLISH

ENGLISH: TRANSACTIONAL FOCUS – EN40ST

Students will focus on transactional or practical language and non-fiction texts, with 70% of both time and course content devoted to critical analysis of transactional forms. Students will explore forms required in post-secondary study such as research reports, essays, websites, and multimedia presentations. The remaining 30% of course time is devoted to analysis and creation of literary forms such as short stories, drama, and poetry.

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.

NOTE: Students may hold credits in all of ST, SC, & SL courses.

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.

NOTE: This course is intended for students who wish to pursue AP English in Grade 12.

ENGLISH AS AN ADDITIONAL LANGUAGE COURSE DESCRIPTIONS

The EAL courses are specifically designed to meet the needs of newcomers to Canada for whom English is an additional language. The purpose of the program is to develop English language skills.

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.

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

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 FOR ACADEMIC SUCCESS - 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.

FAMILY STUDIES COURSE DESCRIPTIONS

FAMILY STUDIES – FA10S

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.

FAMILY STUDIES - FA20S

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.

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.

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.

FRENCH COURSE DESCRIPTIONS

FRENCH - FR10F

French communication and culture 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 - FR20F

This course follows the same objectives as 10F. 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 20F 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.

NOTE: This course is required to be completed in Grade 11 if wishing to pursue AP French in Grade 12.

FRENCH IMMERSION COURSE DESCRIPTIONS

FRANÇAIS

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.

NOTE: This course is required to be completed in Grade 11 if wishing to pursue AP French in Grade 12.

MATHÉMATIQUES

MATHÉMATIQUES - MA10FX

Les élèves prendront part à des activités et projets d'apprentissage en classe qui incorporeront la technologie, la résolution de problèmes, les mathématiques mentales et les mathématiques théoriques. Ce cours couvre une variété de sujets, fournissant aux élèves des compétences et des connaissances de base leur permettant de suivre n'importe quelle option en mathématiques au secondaire. Les élèves qui entrent en 9^e année doivent s'inscrire aux cours de mathématiques de transition 10F et de mathématiques 10F.

INTRODUCTION AUX MATHÉMATIQUES APPLIQUÉES ET PRÉ-CALCUL - MA20SPAX

Les composantes du cours sont non seulement contextuels, mais aussi algébriques. Les élèves devront faire des activités qui incluent l'utilisation de la technologie, la résolution de problèmes, le calcul mental et de la théorie.

MATHÉMATIQUES - AU QUOTIDIEN - MA20SX

Ce cours met l'accent sur des applications de consommation, la résolution de problèmes, la prise de décision et le sens spatial. Les élèves devront travailler individuellement et en petits groupes sur des concepts et des habiletés mathématiques que l'on rencontre quotidiennement dans une société technologique.

MATHÉMATIQUES - PRÉ-CALCUL - MA30SPX

Le cours comprend un haut niveau d'études de mathématiques théoriques et met l'accent sur la résolution de problèmes et le calcul mental. Les sujets étudiés sont divisés en trois domaines: l'algèbre et le nombre, la trigonométrie et les relations et les fonctions.

MATHÉMATIQUES - AU QUOTIDIEN - MA30SX

Ce cours met l'accent sur des applications de consommation, la résolution de problèmes, la prise de décision et le sens spatial. Les élèves devront suivre des activités qui incluent la technologie et la résolution de problèmes.

MATHÉMATIQUES - PRÉ-CALCUL - MA40SPX

Ce cours est conçu pour des élèves qui envisagent d'étudier le calcul et poursuivre des études postsecondaires qui nécessitent l'étude du calcul différentiel et intégral. Le cours comprend un haut niveau d'études de mathématiques théoriques et met l'accent sur la résolution de problèmes et le calcul mental.

MATHÉMATIQUES - AU QUOTIDIEN - MA40SX

Le cours met l'accent sur des applications de consommation, la résolution de problèmes, la prise de décision et le sens spatial.

SCIENCES HUMAINES

SCIENCES HUMAINES - SS10FX

L'élève explorera la vie au Canada à partir des thématiques de diversité et de pluralisme, la démocratie et le gouvernement canadien, le Canada dans le contexte mondial, et les possibilités et les défis de l'avenir canadien.

GÉOGRAPHIE - GE20FX

L'élève acquerra des connaissances, des habiletés et des valeurs requises pour mieux comprendre le Canada et le monde dans lequel il ou elle vit. L'élève explorera aussi diverses perspectives concernant les enjeux géographiques au Canada. Quelques thèmes que nous aborderons incluent: la géographie du Canada et du monde, l'agriculture, les ressources naturelles, l'urbanisation, et l'interaction entre les humains et l'environnement.

HISTOIRE – HI30FX

Nous verrons les événements principaux qui ont contribué à former notre grand pays et notre peuple. L'élève examinera les événements du passé de différentes perspectives afin d'acquérir une meilleure compréhension du Canada comme il était et comme il est aujourd'hui.

PSYCHOLOGIE – PY40SX

L'élève recevra une initiation aux divers facteurs qui influencent nos émotions, nos pensées et nos actions. Les thèmes explorés incluent les recherches, le fonctionnement du cerveau, la personnalité, l'apprentissage, la mémoire, les niveaux de la conscience et les troubles psychologiques. L'élève apprendra à mieux se connaître ainsi qu'à mieux comprendre les autres.

ENJEUX MONDIAUX: CITOYENNETÉ ET DURABILITÉ - GI40SX

Ce cours vise à développer chez les élèves une perspective globale au sujet des enjeux sociaux, politiques et économiques actuels, à améliorer leurs compétences en matière de recherche et communication écrite qui leur seront utiles dans le cadre de leurs études universitaires, et enfin à les encourager à participer activement aux enjeux auxquels font face leur communauté et le monde. Un projet communautaire représentera 20% de la note finale. Les élèves souhaitant suivre ce cours doivent manifester un fort intérêt pour les questions de société contemporaines.

SCIENCES

SCIENCES DE LA NATURE SCIENCES DE LA NATURE - SC10FX

Ce cours est une introduction aux notions fondamentales de la science: la reproduction, les atomes et les éléments, l'électricité, et l'exploration de l'univers.

SCIENCES DE LA NATURE - SC20FX

Le programme d'études Sciences 20S comprend la chimie, la physique, la biologie, et la météorologie.

BIOLOGIE - BI30SX

Ce cours est une introduction aux notions fondamentales de l'homéostasie et du bien-être, suivie d'un aperçu de la biologie des systèmes humains. L'élève est invité à prendre conscience de son corps par une étude approfondie de l'anatomie et de la physiologie humaine.

BIOLOGIE - BI40SX

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CHIMIE - CH30SX

Ce cours comprend une étude des phénomènes chimiques au niveau moléculaire. Les principaux sujets abordés sont les propriétés physiques de la matière, les gaz et l'atmosphère, les réactions chimiques, les solutions, et la chimie organique. L'élève doit avoir une base solide en mathématiques au préalable.

Leadership Scolaire et Communautaire– PE40SX

This course is designed to help students develop their individual and group management skills through a wide range of real-life situations and experiences using project-based learning. 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. Students will plan and oversee a variety of activities within our school and

CHIMIE - CH40SX

Ce cours est destiné aux élèves désirant poursuivre des études post-secondaires. Les sujets traités sont la structure atomique, la cinétique, l'équilibre chimique, les acides et les bases, et l'oxydoréduction. Il est attendu que l'élève puisse résoudre les problèmes selon l'approche molaire. L'élève doit avoir une base solide en mathématiques au préalable.

PHYSIQUE-PH30SX

Les élèves vont étudier le mouvement de la matière et de l'énergie. Les élèves vont recevoir une éducation de la fondation de la mécanique, les champs, les ondes, et la lumière. L'élève doit avoir une base solide en mathématiques au préalable.

PHYSIQUE – PH40SX

Les élèves vont étudier le mouvement de la matière et de l'énergie. Les sujets principales du cours sont: le mouvement en deux dimensions, la conservation de quantité de mouvement et d'énergie, la motion orbitale, les champs électriques et magnétiques, les circuits électriques, l'induction électromagnétique, et la physique nucléaire. L'élève doit avoir une base solide en mathématiques au préalable.

ETUDES DE LA FAMILLE – FA40SX

Dans ce cours, l'élève étudie le milieu familial, de la jeunesse à la vieillesse, les personnes âgées, la communication à la maison et au travail, les plans de vie et la gestion personnelle, les différences dans les relations.

community such as field trips, fundraisers, school events, tournaments etc... This course provides more students with an opportunity to develop the confidence and interest as future leaders to stay involved in their communities in a variety of contexts after leaving school.

HUMANITIES COURSE DESCRIPTIONS

GRADE 9 COURSES

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.

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.

GRADE 10 COURSES

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.

AMERICAN HISTORY - HI20G

This course will examine several 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.

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 work-shops will be offered to better understand the history of Aboriginal peoples.

GRADE 11 COURSES

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.

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 several other natural disasters.

GRADE 12 COURSES

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.

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.

WORLD 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.

A WORLD OF RELIGIONS: A CANADIAN PERSPECTIVE – WR40S

This course will explore the dynamics of religious diversity. 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.

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.

MATHEMATICS COURSE DESCRIPTIONS

Math is a required compulsory course from Grade 9 to Grade 12. All Math courses offered lead to access to post secondary education.

GRADE 9 MATHEMATICS

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.

ENRICHMENT - MA11G

“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.

GRADE 10 MATHEMATICS

MATHEMATICS ESSENTIALS - MA20SS

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

MATHEMATICS APPLIED - MA30SA

This course 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.

MATHEMATICS ESSENTIALS - MA30S

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.

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.

GRADE 12 MATHEMATICS

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 ESSENTIALS - MA40S

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 postsecondary 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.

NOTE: This course is required to be completed in Grade 11 if wishing to pursue AP Math in Grade 12.

PHYSICAL EDUCATION COURSE DESCRIPTIONS

GRADE 9 COURSES

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.

GRADE 10 COURSES

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.

GRADE 11 COURSES

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.

FEMALE FITNESS – PE30FIF (In-school Physical Education)

This full-credit course meets the requirements of the compulsory PE 30F and PE40F and is designed to help young women in grades 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.

CO-ED FITNESS – PE30FT

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.

NOTE: Students cannot hold more than one Phys. Ed credit at the grades 11 or 12 level (30F/40F)

SUSTAINABLE WILDERNESS – PE31G

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.

GRADE 12 COURSES

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.

EXERCISE SCIENCE – EXERSCI40S

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.

FEMALE FITNESS - 40FIF (In-school Physical Education)

This full-credit course meets the requirements of the compulsory PE 30F and PE40F and is designed to help young women in grades 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.

CO-ED FITNESS – 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.

Note: Students cannot hold more than one Phys. Ed credit at the grades 11 or 12 level (30F/40F).

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.

SCIENCE COURSE DESCRIPTIONS

GRADE 9 COURSE

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.

GRADE 10 COURSE

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.

GRADE 11 COURSES

BIOLOGY - BI30S

Students in BI30S will study the Human Body with respect to homeostasis, digestion and nutrition, the respiratory system, excretion, and waste management, 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.

NOTE: This course is required for students intending on taking AP Biology in Grade 12.

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.

NOTE: This course is required for students intending on taking AP Chemistry in Grade 12.

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.

ENVIRONMENTAL SCIENCE - 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.

NOTE: The focus of the course will be on environmental science.

GRADE 12 COURSES

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.

NOTE: It is recommended that Chemistry 30S has been successfully completed prior to taking Chemistry 40S.

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.

NOTE: It is recommended that Physics 30S has been successfully completed prior to taking Physics 40S.

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.

SKILLED TRADES & TECHNOLOGY COURSE DESCRIPTIONS

AUTOMOTIVE TECHNOLOGY

At College Sturgeon Heights Collegiate, our Automotive Technology program is a dynamic and interactive program. The program is designed to help students develop a working understanding of the basic purpose, construction, operation and service of all automotive components and assemblies while potentially earning a level 1 apprenticeship standing. Through a combination of theory and practical application students will learn about and demonstrate their ability to service, diagnose and repair a wide variety of vehicles and systems using state of the art tools and equipment.

Introduction to Automotive Technology – 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 Grades 11 or 12 program must sign up for all credits

Automotive Technology – PM30SA, PM30SB, PM30SC

Credit Value: 3 courses, 1 credit per course.

The Grade 11 Level Automotive Technology courses deal with the theory, operation and repair of major vehicle systems. Topics covered in the Grade 11 Level include:

- (A) Engine Fund Service
- (B) Chassis Fund Service
- (C) Drivetrain Fund Service

Automotive Technology – PM40SSA, PM40SSB, PM40SSC, PM40SSD

Credit Value: 4 courses, 1 credit per course.

The Grade 12 Level Automotive Technology courses addresses theory, operation, and repair of advanced vehicle systems. Topics covered in the Grade 12 Level include:

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

AVIATION

The Pilot Ground School cluster of courses has been developed to teach students all of the knowledge, skills and attitudes required for the Ground School component of their Private Pilot's License, administered by Transport Canada. Students who complete this 8 course cluster, and meet Transport Canada requirements (including a minimum number of hours of flight instruction) are then qualified to write the Transport Canada Private Pilot License Airplane Category written exam. Students can obtain their Private Pilot's License by completing their flight instruction through one of the Flight Training Units approved by Transport Canada. Students can begin their flight instruction at any time, including while enrolled in this cluster, as long as they meet the Transport Canada requirements. More information on the exam can be found in this document: TP 12880E (06/2010) Study and Reference Guide for written examinations for the Private Pilot Licence – Aeroplane fifth edition, which is found here:

<https://www.tc.gc.ca/Publications/en/TP12880/PDF/HR/TP12880E.pdf>

Besides completing their Ground School training, students completing this cluster will also learn about various sectors in the aviation industry, including a variety of aviation careers, such as commercial pilot, air traffic controller, meteorologist, aircraft maintenance engineer, and aeronautical engineering.

After successfully completing the cluster, students will have obtained knowledge and skills which will ease their transition to post secondary education opportunities in aviation. These include BSc. in aviation or meteorology, air traffic control diploma, and engineering programs in maintenance and aeronautics.

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.

PRINCIPLES OF FLIGHT – AV30S

In this largely theoretical course, students focus on aerodynamics, theory of flight, mechanics of aircraft, air law, radio theory, airdromes, and airports, as well as engines, airframes, systems, and instruments.

METEOROLOGY & NAVIGATION – AM30S

In this course, students will develop theoretical and practical understanding of meteorology, and its application to aviation. They will also develop theoretical and practical understanding of navigation, especially as it relates to flight planning.

FLIGHT SIMULATION LAB – FLS30S

This course, students focus on following correct procedures while performing flight training exercises as they fly simulated aircraft. This provides them with the opportunity to incorporate the theory that they have previously learned. As part of their experience flying simulated aircraft, students learn required radio procedures.

ADVANCED AVIATION –AAV40S

In this course, students will gain advanced understanding of navigation technologies, aerodynamics, the relationship between meteorological conditions and aircraft performance, and air law.

HUMAN FACTORS – AHF40S

This course focuses on human factors in aviation, including the pilot and the operating environment, aviation psychology, pilot decision making, and aviation physiology.

AVIATION OPERATIONS – AO40S

In this course, students will develop understanding of all sectors of the aviation industry and focus on those sectors in which they are interested in pursuing. They will have the opportunity to discover the aviation-related facilities in their area, such as air operators, airports and airdromes, repair and maintenance facilities, control towers and centres, etc.

APPLIED AVIATION – AA40S

In this course, students develop understanding of careers in the aviation industry, including training and employment opportunities, and focus on those careers in which they are interested in pursuing. Students will have the opportunity to meet with people who work in specific careers in aviation. They will also develop a resume as part of their plan to obtain their preferred career in aviation.

CULINARY ARTS

In the Culinary Arts program, you'll gain practical experience in the kitchen while studying and researching the business of cost control, sanitation and safety, menu, nutrition, and kitchen management. You'll learn to produce food quickly and in quantity while working with others. Graduates are prepared to seek entry-level employment such as line cook and pantry cook (garde manger). The mission of the Culinary Arts Program is to provide an environment for students to become learners possessing the skills, knowledge, creativity, and ethical values necessary to flourish in the rapidly changing culinary, restaurant and catering professions. Experienced industry professionals impart their knowledge and up-to-date technical acumen to their students, and curriculum relies heavily on actual participation in projects that are practical and technical in scope.

Culinary Arts Program at Sturgeon Heights Collegiate is a certified Accredited Program; Apprenticeship Manitoba recognizes trades-related courses or programs of study offered by many training institutions, colleges, and high schools. Accredited programs offer prospective apprentices the opportunity to gain basic trades-based knowledge and skill.

For further information:

<https://www.gov.mb.ca/wd/apprenticeship/discover/mbrades/cook.html>

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.

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

CULINARY ARTS – FS30SSA, FS30SSB, FS30SSC, FS30SSD

Credit Value: 4 courses, 1 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 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.

DIGITAL MEDIA DESIGN

Digital Media Design is a course that explores various creative multimedia industry software and technologies. The courses are largely project based and designed for students to explore new ideas and technology in the multimedia industry. Digital Media Design is offered from Grade 10 to 12 increasing in depth and focus. Each level progresses from learning the basics of the various software and equipment, to advanced development of creative assignments and projects.

This program is intended for imaginative and motivated individuals who have a desire to explore new ways of expressing their creativity through multimedia.

The DMD program can be combined with other areas such as Graphic Arts, Media Production and Photography in order to achieve a Multimedia Diploma.

INTRODUCTION TO INTERACTIVE DIGITAL MEDIA – DMD20S

The Introduction to Digital Media Design program provides up-to-date Technical Vocational training in web design, mobile game and app development, digital photo & video, and 2D & 3D animation.

INTERACTIVE DIGITAL MEDIA DESIGN – DMD30S

Course is a continuation of theory and skill development of the Grade 10 level course.

DIGITAL MEDIA DESIGN – DMD40S

The grade 12 Digital Media Design program provides up-to-date Technical Vocational training in web design, mobile game and app development, digital photo & video, and 2D & 3D animation. It teaches both design fundamentals and technical skills, and encourages creativity, imagination, professionalism, and a strong work ethic. As a graduate of this program, you will be able to design and build advanced responsive websites, shoot, and edit high end digital video and motion graphics, develop complex games & apps, and construct detailed 2D animation & 3D models.

ELECTRICAL TRADES

The Sturgeon Heights Electrical Trades program teaches and prepares students for life after high school, no matter what their path may be. Students can get direct entry into Electrical Apprenticeship, Electrical Distribution Warehouses, or further their training with post secondary schooling at university, trades colleges, public utilities or even to become a qualified handy person as a proud homeowner.

INTRODUCTION TO ELECTRICAL TRADES – EL20S

The 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.

DC FUNDAMENTALS – EL30ST

Students will be introduced to electrical technology by studying DC circuit theory. Areas of study include instrumentation, measurement, component recognition, value determination, and fabrication. Students will learn Ohm's law as it relates to series, parallel, and combination circuits.

RESIDENTIAL WIRING – EL30SS

Students will be introduced to Canadian Electrical Code (CEC) standards. They will learn to design, install, test, and troubleshoot branch circuits, and become familiar with the tools, techniques, materials, and devices associated with it. Students will also be introduced to blueprint reading.

ELECTRICAL WIRING METHODS – EL30SSB

Students will be introduced to alternative wiring methods and the CEC codes associated with them. They will work with various types of raceways and cables, and become familiar with the tools, techniques, materials, and devices associated with them.

ADVANCED RESIDENTIAL WIRING – EL40SS

Students will build on the knowledge and skills that they learned in residential wiring, including home automation technologies, and service and demand load calculations.

AC FUNDAMENTALS – EL40ST

Students will become familiar with AC theory, including electrical fundamentals, magnetism, electromagnetism, and RLC circuits. Students will also focus on cross-curricular knowledge from mathematics and physics.

ADVANCED ELECTRICAL WIRING METHODS – EL40SSB

Students will build on the knowledge and skills that they learned in Electrical Wiring Methods. Students will also be introduced to motor controls, PLCs, raceway calculations, voice data video (VDV) structured cabling, as well as retrofitting and/or upgrading existing electrical installations.

APPLIED ELECTRICAL TRADES TECHNOLOGY – EL40SSC

Students will build on the knowledge and skills that they learned in Electrical Wiring Methods. Students will also be introduced to motor controls, PLCs, raceway calculations, voice data video (VDV) structured cabling, as well as retrofitting and/or upgrading existing electrical installations.

GRAPHIC ARTS

Graphic Arts is a comprehensive 8 credit vocational certificate program offering the latest instruction in graphic design and print communications technology.

Students will learn and practice the fundamental elements, principles, techniques, and applications that are pertinent to the overall development specific to the Graphic Design & Print Communications Discipline.

PRINT PRODUCTION - GA20S

This course introduces students to the field of graphic design. Students will begin to focus on basic design theory, the design process, and their practical application.

DESIGN – GA30SSA

Students will expand the knowledge and skills acquired in Fundamentals of Graphic Design and focus on the theory and practical application of graphic design and layout.

PRINT PRODUCTION – GA30SSB

Students will expand the knowledge and skills acquired in Fundamentals of Graphic Design and focus on the theory and practical application of illustration.

PRE-PRESS – GA30SSC

Students will expand the knowledge and skills acquired in Fundamentals of Graphic Design and focus on the theory and practical application of interactive graphic design.

ADVANCED DESIGN – GA40SSA

Students will expand the knowledge and skills acquired in Graphic Design and Layout and focus on the theory and practical application of graphic design and layout to solve client-driven design challenges.

ADVANCED PRE-PRESS – GA40SSB

Students will expand the knowledge and skills acquired in Illustration for Graphic Design and focus on the theory and practical application of illustration to solve client-driven design challenges.

ADVANCED PRINT PRODUCTION – GA40SSC

Students will expand the knowledge and skills acquired in Interactive Graphic Design and focus on the theory and practical application of interactive graphic design to solve client-driven design challenges.

APPLIED PRINT MEDIA – GA40SSD

In this course, students apply the knowledge and skills learned in previous courses to produce a graphic design portfolio to obtain entry-level employment or self-employment opportunities or gain admittance to a post-secondary program.

HAIRSTYLING

Recognition has been given to the College Sturgeon Heights Collegiate Hairstyling program, which meets the required standards, needed by the Manitoba Apprenticeship Board. At Sturgeon Heights Collegiate, we have an accredited hairstyling program. This means that once a student graduates and completes all the required levels and the government practical exam, they will achieve their Level 1 Apprenticeship. After graduation, students can continue to work towards their next 1500 hours to complete level 2. Upon completing their level 2 apprenticeship, they are required to gain at least 70% on their written government exam.

For further information:

<https://www.gov.mb.ca/aesi/apprenticeship/discover/mbtrades/hairstylist.html>

HAIRSTYLING – Grade 9 – HS20S & H20SS

Credit Value: 2 credits, 1 per course.

- A) Introduction to Hairstyling
- B) Related Salon Services

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 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 Grades 11 or 12 program must sign up for all credits.

HAIRSTYLING – HS30S, HS30SA, HS30SB, HS40SC

Credit Value: 4 courses, 1 per course.

- A) Intermediate Haircutting & Barbering
- B) Hair Colouring
- C) Intermediate Hairstyling
- D) Chemical Texture Services

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 - HS40SSA, HS40SSB, HS40SSC, HS40SSD

Credit Value: 4 courses, 1 per course

- A) Advanced Hairstyling & Colouring
- B) Advanced Haircutting
- C) Salon Operations
- D) Certificate Preparation

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.

MEDIA PRODUCTION

Media Production is a 5-credit program that offers students the latest instruction in video production and broadcast media communications technology.

Students will be introduced to the tasks and equipment used in audio, video, and film production in a variety of projects. They will learn the skills and roles involved in the pre-production, production, and postproduction of different types of video media. They will also develop a clear understanding of the importance of media today.

Students who earn all 5 credits in Media Production, as well as 3 additional credits in Photography, Graphic Arts, or Digital Media Design will receive a vocational certificate in Media Production.

INTRODUCTION TO MEDIA PRODUCTION - MP20SSA

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 Grade 12 media production courses.

SINGLE CAMERA PRODUCTION - MP30SSB

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.

VIDEO POST-PRODUCTION - MP30SSA

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

ELECTRONIC NEWS/DOCUMENTARY & FILM - MP40SSA/MP40SSB

Students will learn Electronic News Gathering techniques and create documentary videos. Emphasis will be placed on script preparation and copywriting.

PHOTOGRAPHY

Sturgeon Heights Photography is where student can unleash their photographic creativity using professional DSLR cameras and equipment. In this program, we start with the basics, covering proper composition and editing techniques. As the course progresses, students are shown more advanced techniques and equipment. Students get to use our fully equipped studio to produce professional results. They discover much more advanced editing techniques using Adobe Photoshop. Students are offered many chances to work with real clients and live events as well as field trips that encourage their photographic creativity. As students build their skills, they start to focus on developing their portfolios in preparation for post-secondary education or transition to employment.

PHOTOGRAPHY – PD20SS

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.

PHOTOGRAPHY – PD40SS

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. It is **STRONGLY** recommended that students have prior experience in Photography and image editing. Students will be using DSLR cameras that will be provided.

PHOTOGRAPHY – PD30SS

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.

WELDING

This program is a Level 1 'Apprenticeship MB Certified Program. 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.

Further information:

<https://www.gov.mb.ca/aesi/apprenticeship/discover/mbtrades/welder.html>

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.

WE30SSA, WE30SSB, WE30SSC

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

WE40SSA, WE40SSB, WE40SSC, WE40SSD

Credit Value: 4 courses, 1 per course
The 40S courses refine WE20S and WE30S skills to include out-of-position arc welding. Many metal trades skills such as tig-welding, blueprint 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.

WOODS TECHNOLOGY

Wood Technology is a 5-credit program offered at the grade 10, 11 and 12 levels that offers in depth learning of basic through advanced woodworking skills. Modern and traditional methods of woodworking are included and allowance for students to take on their specific interests in the field is highly encouraged.

Although the courses begin in grade 10, it is possible for grade 9 students to enroll in the grade 10 course. Following this trend students can enroll in the grade 11 course when in grade 10 then grade 12 when in grade 11.

WOODS TECHNOLOGY - WT20G

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.