

# KILDONAN-EAST COLLEGIATE

Kildonan-East is a comprehensive high school that offers a broad range of program choices for its students. This range, combined with its organizational structure that includes the semester system, allows a student to build a timetable that is closely aligned to their strengths and abilities. Kildonan-East's school philosophy places a high value on the individual student. Our staff members enjoy working with our students. We treat students with respect and expect the same in return. Our students are given responsibilities that are reasonable for students of high school age. Our rules and procedures are designed to help our students to develop into positive, mature citizens, and to create a safe and nurturing atmosphere that is conducive to learning. We take pride in building our reputation for excellence one student at a time. We wish you well in your upcoming year at Kildonan-East.



## REIVERS ARE BELIEVERS

Cover Design: Graphic Design Program  
Cover Photo: Grade 11 Kildonan-East  
Photography Handbook Interior Photographs:  
Kildonan-East Photography

# TABLE OF CONTENTS

## SECTION 1

INTRODUCTION.....	1
GENERAL INFORMATION .....	3 - 4
THE CREDIT SYSTEM AND COURSE NUMBERING .....	5
DIPLOMAS AVAILABLE .....	6
AFTER GRADUATION.....	7
OTHER CREDIT OPTIONS.....	8
APPRENTICESHIP.....	9
EXTRACURRICULAR ACTIVITIES .....	10
GRADUATION REQUIREMENTS / PLANNING FOR THE FUTURE.....	11 - 12

## SECTION 2

AUTOMOTIVE TECHNOLOGY .....	13
BAKING AND PASTRY ARTS.....	14
CARPENTRY .....	15
COLLISION REPAIR AND REFINISHING TECHNOLOGY .....	16
CULINARY ARTS.....	17
ELECTRICAL TRADES TECHNOLOGY.....	18
GRAPHIC DESIGN .....	19
HAIRSTYLING.....	20
INTERACTIVE DIGITAL MEDIA .....	21
PHOTOGRAPHY .....	22
REFRIGERATION AND AIR CONDITIONING.....	23

## SECTION 3

COURSE DESCRIPTIONS.....	24 - 33
--------------------------	---------

# GENERAL INFORMATION

## STUDENT SERVICES DEPARTMENT

### COUNSELLING

School counsellors are available to meet with students and/or parents to provide assistance of a general or personal nature. Services are provided in a wide variety of areas such as career development, course selection, planning of post-secondary education, study habits, decision making, personal relationships and many other areas that affect students' physical, emotional, and mental well-being. When special services are required, referrals are made to outside agencies.

### RESOURCE

Resource teachers are available to work closely with students who may be experiencing learning difficulties in their courses. Resource teachers liaise with parents, students, divisional consultants, and teachers to help support successful learning environments and programming for all students. Services may include the recovery of credits through the Individualized Self-Paced Learning programming, the provision of specialized materials and equipment for individual student's needs, and referrals to outside agencies if required.

## LIBRARY LEARNING COMMONS

The KEC Library Learning Commons, offers a place to work collaboratively, study, read, access supplies, and engage in activities. A place of academic collaboration, the LLC houses a large selection of informational books, reference materials, periodicals and fictional books. The LLC is staffed by a Teacher Librarian as well as a Library Technician. Both staff members are happy to offer suggestions for suitable leisure and academic reading. Materials from KEC's collection may be borrowed for two weeks and reference books may be taken out overnight. Inter-Library Loans are available for many titles, requests are thoroughly considered, and staff are happy to assist you in finding materials for your research topics or interests! Students can access the catalogue listings as well as a variety of online subscription-based resources (Ebscohost, Encyclopedias, and Winnipeg Public Library) through the KEC website's Library section in school or on personal/home devices. The goal of this program is to make our students effective, lifelong users of information. Come visit us today!

## EXPECTED PREREQUISITES, COURSE SEQUENCES

Certain courses at Kildonan-East have a definite sequential development that necessitates expected prerequisites. For example: Science 20F is an expected prerequisite for Chemistry 30S or Physics 30S, and Visual Arts 20s is an expected prerequisite for Visual Arts 30S. The information booklet identifies expected prerequisites. Consider these expectations when making course selections. Previous experiences of students and teachers indicate that these requirements are to ensure success in the course.

## SUMMER SCHOOL

Students may take summer school courses offered by the Winnipeg School Division, the Pembina Trails School Division, Louis Riel School Division and the St. James School Division. The River East School Division will offer summer school for repeater Grade 9 courses in Language Arts, Science, Mathematics, Social Studies and some selected Grade 10 - 12 courses (to be announced at a later date). Students who fail any of the core courses at Grade 9 are strongly advised to obtain these credits at Summer School.

## **REGISTRATION PROCEDURES - NEW STUDENTS**

Grade 8 students going into Grade 9 wishing to attend Kildonan-East will complete application forms at their middle school. Middle school counsellors will forward student applications to Kildonan-East. Grade 8 students will be notified by Kildonan-East regarding their acceptance into programs. New students to Kildonan-East will be timetabled by the school administration according to the availability of courses they have selected. Senior years students who have not attended Kildonan-East are required to submit an official transcript and attendance from their previous school.

## **CHANGE OF PROGRAM**

Students who wish to change their area of major, for example from Automotive Technology to Electrical Trades and Technology must consult with a counsellor. Parental consent must be obtained, and School Administration must approve the change.

## **WITHDRAWAL FROM A COURSE**

Students are expected to carry a full program of studies. Anyone who wishes to withdraw from a course must consult with a counsellor. Parental consent and/or approval from the school administration is necessary.

## **SPECIAL CREDITS**

Students may achieve a Private Music Option 12G, 22G, 32S, 42S, through the home study of music, and the passing of recognized music examinations. In addition, credits may be received for foreign languages. Students must consult with a counsellor if they wish to apply for Special Credits.

## **ENGLISH AS AN ADDITIONAL LANGUAGE PROGRAM**

Kildonan-East Collegiate offers English as an Additional Language (EAL) courses for students who are new to Canada. **Welcome!** The program helps students improve their English language skills in the areas of listening, speaking, reading and writing. Courses are offered in a specialized classroom, or in a regular classroom, with different goals for each student. In both classrooms, students will work on communication skills and language learning. Ask your school counsellor for more information.

## **SEMESTER SYSTEM**

A semester is a portion of a school year during which a student may complete all or a portion of a course (credit). A single credit course has approximately 110 hours of class time. Kildonan-East Collegiate has 2 semesters. Most courses/credits are scheduled over 1 semester (5 months) in single periods.



# CREDIT SYSTEM

A credit is gained by the successful completion of a course of study encompassing approximately 110 hours of instruction. A half credit represents 55 hours of instruction. Manitoba Education requires that a student earn a minimum of thirty (30) credits to graduate from high school (Grade 9 to Grade 12).

## COURSE NUMBERING – WHAT IT MEANS

Each course is assigned a 3-character, alpha-numeric code. The first and second characters are numerals, while the third is a letter.

### THE FIRST CHARACTER:

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

### THE SECOND CHARACTER:

- 0 developed by Manitoba Education for 1 credit
- 5 developed by Manitoba Education for 1/2 credit
- 1 developed by schools or school divisions and approved by Manitoba Education (includes SIPs and SICs)
- 2 developed elsewhere and approved by Manitoba Education (Advanced Placement)

### THE THIRD CHARACTER:

AP - ADVANCED PLACEMENT

Academically challenging Advanced Placement (PA) courses. Grade 12 level courses are recognized for credit or placement at most post-secondary institutions.

This PA symbol following an F or S character indicates very rigorous courses in Grade 9, Grade 10 and Grade 11 that prepare students for advanced placement in Grade 12 (e.g.20FPA).

A - ADVANCED

E - ENGLISH as an additional language courses designated for newcomers who require assistance in English.

F - FOUNDATION Courses are broadly based and appropriate for all students and which may lead to further studies beyond Grade 12.

G - GENERAL Courses provide a general educational experience.

M - MODIFIED Courses where curriculum outcomes have been modified more than 50% to take into account the learning requirement of students. An Individual Educational Plan (I.E.P.) is required for each student in M courses.

S - SPECIALIZED Courses provide learning experiences, knowledge, and skills that may lead to further post-secondary studies.

# DIPLOMAS AVAILABLE

Grade 9 to Grade 12, students earn course credits towards high school graduation. To obtain a Manitoba high school diploma, students must accumulate a minimum of 30 credits from a combination of compulsory and optional courses. The three Diplomas available at Kildonan-East Collegiate include:

## SENIOR YEARS ENGLISH DIPLOMA

The Senior Years English Diploma provides a sound education at the secondary level. It is organized to maintain a balance between the core subject areas of English, Mathematics, Social Studies, Science and Physical Education. Students select additional option courses to meet their specific needs and interests. This program may provide a basis for further education at the university or college level (please refer to Post-Secondary Requirements on page 11)

## TECHNOLOGY SENIOR YEARS DIPLOMA

The Senior Years Technology Education Diploma also offers a balance between core subject areas and a technology vocational area of the students' choice, with opportunities to select options. Kildonan-East Collegiate offers 11 separate Technology Education Diplomas, each of which provides training skills at the job entry level. When choosing courses, students should ensure they meet the entrance requirements of the post-secondary education and training, apprenticeship or private vocational training they plan to pursue.

AUTOMOTIVE TECHNOLOGY

BAKING AND PASTRY ARTS

CARPENTRY

CULINARY ARTS

COLLISION REPAIR AND REFINISHING TECH

ELECTRICAL TRADES TECHNOLOGY

GRAPHIC DESIGN

HAIRSTYLING

INTERACTIVE DIGITAL MEDIA

PHOTOGRAPHY

REFRIGERATION AND AIR CONDITIONING

## MATURE STUDENT DIPLOMA

Any person 19 years of age or older whose graduating class has already graduated may get his/her high school graduation standing through the Mature Student Program. In order to graduate, a Mature Student must complete eight courses; four of these eight courses must be chosen from the Grade 12 level, which includes Grade 12 English and Mathematics. Acceptance is on a "space available" basis, after current and high school age students have registered.

NOTE: CONTACT YOUR TEACHER ADVISOR OR COUNSELLOR IF YOU HAVE QUESTIONS ABOUT ANY OF THESE PROGRAMS

# AFTER GRADUATION

## POST-SECONDARY OPTIONS AFTER GRADUATION FROM KEC

Students wanting to attend university need to have successfully completed all the required courses for their Gr. 12 diploma including Gr. 12 Physical/Health Education and five - 40S courses. Please see specific faculties and programs for more information on required courses. Students who wish to enter post-secondary institutions such as the University of Manitoba, University of Winnipeg and Red River College should note that each program and institution is different and high school requirements vary greatly. Please see the links below for the high school pre-requisites. Grade 12 Pre-Calculus, although an asset, is not a required course for many faculties at University and Red River College.

### **UNIVERSITY OF MANITOBA** [umanitoba.ca/student/future/](https://umanitoba.ca/student/future/)

For students interested in receiving entrance scholarships at the University of Manitoba, please see the link for pre-approved courses. <https://umanitoba.ca/financial-aid-and-awards/entrance-awards>

### **UNIVERSITY OF WINNIPEG** [uwinnipeg.ca/future-student/](https://uwinnipeg.ca/future-student/)

For students interested in receiving entrance scholarships at the University of Winnipeg, please see the link for information. [uwinnipeg.ca/awards/](https://uwinnipeg.ca/awards/)

### **RED RIVER COLLEGE** [rrc.ca/future-students/](https://rrc.ca/future-students/)

### **BOOTH COLLEGE** [boothuc.ca/admissions/](https://boothuc.ca/admissions/)

Please see your counsellor for more post-secondary information.

# OTHER CREDIT OPTIONS

## **COMMUNITY SERVICE CREDIT STUDENT-INITIATED PROJECT (SIP)**

The Community Service Student-Initiated Project (SIP) Credit Option enables students who make a contribution to their community by volunteering for worthwhile causes or organizations to receive recognition for the civic skills, knowledge and attitudes obtained in the volunteer activity. The volunteering done by students participating in this SIP is not the responsibility of the school division or Manitoba Education, but an opportunity made available to students to obtain credit for private activity – a process similar to obtaining credit for the Private Music Option where students provide the school with documentation on their standing following completion of the activity. Students who are interested in receiving a community service credit must get approval from an administrator prior to initiating the volunteer activity.

## **CREDIT FOR EMPLOYMENT**

Students enrolled in, or those having completed a Life/Work 10S, 20S, 30S, or 40S course may earn up to two additional credits (one credit for each 110-hour block) if they are employed. Please see a school counsellor for more details.

## **CHALLENGE FOR CREDIT OPTION**

The educational system recognizes that students may, in exceptional circumstances, have already acquired the knowledge, skills and attitudes of a particular course. The Challenge for Credit Option provides a process for students to demonstrate that they have achieved learning outcomes as defined in the Manitoba Curriculum for a directly related course. Please see a school counsellor for more details.

### **THIS OPTION IS INTENDED TO SERVE PARTICULAR NEEDS SUCH AS:**

- Students who, by virtue of special talents or private study, can be accelerated in particular subject areas.
- Students transferring into a Manitoba school from another jurisdiction whose placement in a subject/grade would be facilitated by such a provision.
- Students whose educational attendance has been interrupted through sickness or other reasons and who may be able to successfully challenge the learning outcomes of a particular subject area, in which they were previously unable to enroll.
- Students who were previously home schooled.
- Students who are considered exceptional achievers in a certain area.
- Students who can demonstrate that they have met course requirements through life experiences such as independent study, world of work, volunteer activities, and hobbies.

# APPRENTICESHIP



The High School Apprenticeship Program (HSAP) is all about on-the-job experience with an employer. HSAP provides practical, paid, work experience and credit towards your high school diploma. The purpose of HSAP is to provide an opportunity for early entry in the trades and build interest with youth. Students are then able to transfer their hours of HSAP on-the-job training after graduation to a Level one apprenticeship training program in any apprenticeship program. This program is ideal for students who:

- Are currently working in the skilled trades
- Are interested in a career in the skilled trades
- Are enthusiastic about joining the workforce
- Have a parent or relative currently working in the trades

HSAP provides practical, paid, work experience and the opportunity to:

- Get hands-on experience
- Earn up to 8 supplemental high school credits
- Obtain financial incentives that cover tuition costs for post-secondary training
- Avoid long wait times for post-secondary trade training
- Apply your on-the-job training hours to continued, full-time apprenticeship training after graduation

Students eligible for HSAP are:

- 16 years of age or older
- Currently enrolled in high school courses (academic or technical vocational stream)
- Either employed in a qualifying trade (over 40 trades) or looking for employment
- Have an employer who is willing to take them on as an apprentice

More information about Apprenticeship can be found at:

- River East Transcona School Division Website: [www.retsd.mb.ca](http://www.retsd.mb.ca)
- Apprenticeship Manitoba Website: [www.gov.mb.ca/tradecareers](http://www.gov.mb.ca/tradecareers)

By contacting the River East Transcona School Division Apprenticeship Teacher at:

- [apprenticeship@retsdb.ca](mailto:apprenticeship@retsdb.ca)

# EXTRA-CURRICULAR & ATHLETIC OPPORTUNITIES

KILDONAN-EAST COLLEGIATE OFFERS A WIDE RANGE OF EXTRA-CURRICULAR OPPORTUNITES. THE FOLLOWING IS A SAMPLE OF THE ACTIVITIES THAT MAY BE OFFERED DURING THEIR TIME HERE:

## **ARTS**

- ANIME CLUB
- ART CLUB
- GRAPHIC DESIGN CLUB
- IMPROVISATION/THEATRE
- KEC DANCE TROUPE
- PASTRY CLUB
- POETRY IN VOICE
- RESONANCE: THE KEC MUSIC GROUP
- VARSITY DANCE TEAM
- YEARBOOK CLUB

## **ATHLETICS**

- INTRAMURAL SPORTS
- INTER-SCHOLASTIC SPORTS
  - BADMINTON
  - BASKETBALL
  - CROSS COUNTRY RUNNING
  - CURLING
  - FOOTBALL
  - GOLF
  - HOCKEY – BOYS
  - SOCCER – OUTDOOR
  - TRACK & FIELD – INDOOR
  - TRACK & FIELD – OUTDOOR
  - VOLLEYBALL

## **SCHOOL TRIPS**

- CO-CURRICULAR TRIPS
- WILDERNESS EDUCATION

## **STUDENT GROUPS**

- BEST BUDDIES
- CAR CLUB/CAR SHOW
- eSPORTS
- ETHICS BOWL
- GRAD COMMITTEE
- INDIGENOUS LEADERSHIP
- STUDENT LEADERSHIP
- STUDENT MENTAL HEALTH

## **HUMANITARIAN EFFORTS & EQUITY GROUPS**

- QUEERS AND ALLIES (Q&A)
- YOUTH IN COMMUNITY

\*EXTRA-CURRICULAR ACTIVITIES AND CLUBS ARE SUBJECT TO CHANGE.

# Graduation Requirements

## for the *English* Program

Minimum 30 Credits

The English Program consists of 17 compulsory credits and 13 optional credits.

### 17 Compulsory Credits

For a full explanation of course codes see [www.edu.gov.mb.ca/k12/mychild/common\\_questions\\_9to12.html](http://www.edu.gov.mb.ca/k12/mychild/common_questions_9to12.html)

Subject Areas	5 Compulsory Credits	Grade 9	5 Compulsory Credits	Grade 10	4 Compulsory Credits	Grade 11	3 Compulsory Credits	Grade 12	
<b>English Language Arts</b>	English Language Arts 10F/E/M	English Language Arts 20F/E/M	English Language Arts 20F/E/M	English Language Arts 20F/E/M	English Language Arts 20F/E/M	English Language Arts 20F/E/M	English Language Arts 20F/E/M	English Language Arts 20F/E/M	
<b>Mathematics</b>	Mathematics 10F/E/M	One of the following: <ul style="list-style-type: none"> <li>Essential Mathematics 20S/E/M</li> <li>Essential Mathematics I 25S/E/M and Essential Mathematics II 25S/E/M</li> <li>Introduction to Applied and Pre-Calculus Mathematics 20S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>Applied Mathematics 30S/E/M</li> <li>Essential Mathematics 30S/E/M</li> <li>Essential Mathematics III 35S/E/M and Essential Mathematics IV 35S/E/M</li> <li>Pre-Calculus Mathematics 30S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>Applied Mathematics 30S/E/M</li> <li>Essential Mathematics 30S/E/M</li> <li>Essential Mathematics III 35S/E/M and Essential Mathematics IV 35S/E/M</li> <li>Pre-Calculus Mathematics 30S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>Applied Mathematics 40S/E/M</li> <li>Essential Mathematics 40S/E/M</li> <li>Essential Mathematics V 45S/E/M and Essential Mathematics VI 45S/E/M</li> <li>Pre-Calculus Mathematics 40S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>ELA: Comprehensive Focus 40S/E/M</li> <li>ELA: Literary Focus 40S/E/M</li> <li>ELA: Transactional Focus 40S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>ELA: Comprehensive Focus 40S/E/M</li> <li>ELA: Literary Focus 40S/E/M</li> <li>ELA: Transactional Focus 40S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>ELA: Comprehensive Focus 40S/E/M</li> <li>ELA: Literary Focus 40S/E/M</li> <li>ELA: Transactional Focus 40S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>ELA: Comprehensive Focus 40S/E/M</li> <li>ELA: Literary Focus 40S/E/M</li> <li>ELA: Transactional Focus 40S/E/M</li> </ul>
<b>Physical Education/Health Education</b>	Physical Education/Health Education 10F/E/M	Physical Education/Health Education 10F/E/M	Physical Education/Health Education 20F/E/M	Physical Education/Health Education 20F/E/M	Physical Education/Health Education 30F/E/M	Physical Education/Health Education 30F/E/M	Physical Education/Health Education 40F/E/M	Physical Education/Health Education 40F/E/M	
<b>Social Studies</b>	Canada in the Contemporary World 10F/E/M	Geographic Issues of the 21st Century 20F/E/M	Geographic Issues of the 21st Century 20F/E/M	Geographic Issues of the 21st Century 20F/E/M	History of Canada 30F/E/M	History of Canada 30F/E/M	History of Canada 30F/E/M	History of Canada 30F/E/M	
<b>Science</b>	Science 10F/E/M	Science 20F/E/M	Science 20F/E/M	Science 20F/E/M	Science 20F/E/M	Science 20F/E/M	Science 20F/E/M	Science 20F/E/M	

### 13 Optional Credits

Thirteen credits from subject areas such as:

- English language arts (additional courses for credit)
  - mathematics (additional courses for credit)
  - sciences (additional courses for credit)
  - social studies (additional courses for credit)
  - French (English Program)
  - other languages
  - the arts: visual arts, music, drama, dance
  - career development
- psychology
- computer science
- technology education
  - technical-vocational education
  - human ecology
  - business and marketing/applied commerce
  - industrial arts
- others as offered by the school including School-Initiated Courses (SICs) and Dual Credits
- others as initiated by the student including Student-Initiated Projects (SIPs), Special Language Credit Options (SLCOs), Private Music Options (PMOs), and Royal Winnipeg Ballet

See your school for a complete list of course offerings.

### Notes

- All subjects are taught in English with the exception of other languages studied.
- Credit cannot be held concurrently for the same course with different course designations (e.g., English Language Arts 10F and 10E).
- Non-Manitoba courses from other jurisdictions may be evaluated and accepted by the school principal for credit to meet Manitoba high school graduation requirements. In exceptional circumstances and in discussion with parents, a school administrator may approve the substitution of a maximum of two optional credits for two compulsory credits. All substitution of credits must be reported to Education Administration Services.
- Students following Advanced Placement (AP) or International Baccalaureate (IB) programs must meet the Manitoba graduation requirements, including attaining credits in 40S English language arts and mathematics, and must write the provincial tests associated with these courses.
- ELA: Language and Technical Communication 40S/E/M may be used to satisfy the Grade 12 English language arts requirement for the Technology Education Program diploma.
- At least one optional credit must be at the Grade 11 level and at least two optional credits must be at the Grade 12 level.
- Students may obtain credit for a maximum of 11 SICs, 3 SIPs, 4 SLCOs, and 4 PMOs.
- Students should ensure that they meet the entrance requirements of the post-secondary education (college or university), training, or work situation they intend to pursue.



# Graduation Requirements for the Technology Education Program

## Minimum 30 Credits

These are the graduation requirements for students enrolled before September 2018. The Technology Education Program consists of 16 compulsory credits, plus 8 compulsory credits from an approved technical-vocational cluster or business education and marketing/applied commerce education cluster, plus 6 optional credits. An approved cluster must comprise departmentally developed and/or approved courses that facilitate the transition from school to work.

### 16 Compulsory Credits

For a full explanation of course codes see [www.edu.gov.mb.ca/k12/mychild/common\\_questions\\_9to12.html](http://www.edu.gov.mb.ca/k12/mychild/common_questions_9to12.html)

### 8 Compulsory Technology Education Credits

<b>Subject Areas</b>	<b>5 Compulsory Credits</b>	<b>Grade 9</b>	<b>5 Compulsory Credits</b>	<b>Grade 10</b>	<b>3 Compulsory Credits</b>	<b>Grade 11</b>	<b>3 Compulsory Credits</b>	<b>Grade 12</b>
<b>English Language Arts</b>	English Language Arts 10F/E/M	English Language Arts 10F/E/M	English Language Arts 20F/E/M	English Language Arts 20F/E/M	One of the following: <ul style="list-style-type: none"> <li>■ ELA: Comprehensive Focus 30S/E/M</li> <li>■ ELA: Literary Focus 30S/E/M</li> <li>■ ELA: Transactional Focus 30S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>■ ELA: Comprehensive Focus 40S/E/M</li> <li>■ ELA: Language and Technical Communication 40S/E/M</li> <li>■ ELA: Literary Focus 40S/E/M</li> <li>■ ELA: Transactional Focus 40S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>■ Applied Mathematics 30S/E/M</li> <li>■ Essential Mathematics 30S/E/M</li> <li>■ Essential Mathematics III 35S/E/M and Essential Mathematics IV 35S/E/M</li> <li>■ Pre-Calculus Mathematics 30S/E/M</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>■ Applied Mathematics 40S/E/M</li> <li>■ Essential Mathematics 40S/E/M</li> <li>■ Essential Mathematics V 45S/E/M and Essential Mathematics VI 45S/E/M</li> <li>■ Pre-Calculus Mathematics 40S/E/M</li> </ul>
<b>Mathematics</b>	Mathematics 10F/E/M	Mathematics 10F/E/M	Essential Mathematics 20S/E/M Essential Mathematics I 25S/E/M and Essential Mathematics II 25S/E/M Introduction to Applied and Pre-Calculus Mathematics 20S/E/M	Essential Mathematics 20S/E/M Essential Mathematics I 25S/E/M and Essential Mathematics II 25S/E/M Introduction to Applied and Pre-Calculus Mathematics 20S/E/M	Applied Mathematics 30S/E/M Essential Mathematics 30S/E/M Essential Mathematics III 35S/E/M and Essential Mathematics IV 35S/E/M Pre-Calculus Mathematics 30S/E/M	Applied Mathematics 30S/E/M Essential Mathematics 30S/E/M Essential Mathematics III 35S/E/M and Essential Mathematics IV 35S/E/M Pre-Calculus Mathematics 30S/E/M	Applied Mathematics 40S/E/M Essential Mathematics 40S/E/M Essential Mathematics V 45S/E/M and Essential Mathematics VI 45S/E/M Pre-Calculus Mathematics 40S/E/M	Applied Mathematics 40S/E/M Essential Mathematics 40S/E/M Essential Mathematics V 45S/E/M and Essential Mathematics VI 45S/E/M Pre-Calculus Mathematics 40S/E/M
<b>Physical Education/Health Education</b>	Physical Education/Health Education 10F/E/M	Physical Education/Health Education 10F/E/M	Physical Education/Health Education 20F/E/M	Physical Education/Health Education 20F/E/M	Physical Education/Health Education 30F/E/M	Physical Education/Health Education 30F/E/M	Physical Education/Health Education 40F/E/M	Physical Education/Health Education 40F/E/M
<b>Social Studies</b>	Canada in the Contemporary World 10F/E/M	Canada in the Contemporary World 10F/E/M	Geographic Issues of the 21st Century 20F/E/M	Geographic Issues of the 21st Century 20F/E/M				
<b>Science</b>	Science 10F/E/M	Science 10F/E/M	Science 20F/E/M	Science 20F/E/M				

- Students must complete a minimum of 8 approved credits from within an approved technical-vocational cluster or business education and marketing/applied commerce education cluster.
- Students must fulfill the minimum 30-credit graduation requirement by completing 6 credits from the optional category.

### Notes

- All subjects are taught in English with the exception of other languages studied.
- Credit cannot be held concurrently for the same course with different course designations (e.g., English Language Arts 10F and 10E).
- Non-Manitoba courses from other jurisdictions may be evaluated and accepted by the school principal for credit to meet Manitoba high school graduation requirements. In exceptional circumstances and in discussion with parents, a school administrator may approve the substitution of a maximum of two optional credits for two compulsory credits. All substitution of credits must be reported to Education Administration Services.
- Students following Advanced Placement (AP) or International Baccalaureate (IB) programs must meet the Manitoba graduation requirements, including attaining credits in 40S English language arts and mathematics, and must write the provincial tests associated with these courses.
- Students may obtain credit for a maximum of 11 SICs, 3 SIPs, 4 SILCOs, and 4 PMOs.
- Students should ensure that they meet the entrance requirements of the post-secondary education (college or university), training, or work situation they intend to pursue.
- ELA: Language and Technical Communication 40S/E/M may be used to satisfy the Grade 12 English language arts requirement for the Technology Education Program diploma.
- To complete a High School Apprenticeship Program as part of a Technology Education diploma, students must complete the 16 compulsory requirements and 8 approved High School Apprenticeship Program credits, along with the 6 optional credits.
- Students (except those in HSAP) must complete a minimum of two Grade 11 credits and two Grade 12 credits within the approved technical-vocational cluster.
- Students may obtain credit for a maximum of 11 SICs, 3 SIPs, 4 SILCOs, and 4 PMOs.
- Students should ensure that they meet the entrance requirements of the post-secondary education (college or university), training, or work situation they intend to pursue.

### 6 Optional Credits

- Six credits from subject areas such as:
- English language arts (additional courses for credit)
  - mathematics (additional courses for credit)
  - sciences (additional courses for credit)
  - social studies (additional courses for credit)
  - French (English Program)
  - other languages
  - the arts: visual arts, music, drama, dance
  - career development
  - psychology
  - computer science
  - technology education
    - technical-vocational education
    - human ecology
    - business and marketing/applied commerce
    - industrial arts
  - others as offered by the school including School-Initiated Courses (SICs) and Dual Credits
  - others as initiated by the student including Student-Initiated Projects (SIPs), Special Language Credit Options (SILCOs), Private Music Options (PMOs), and Royal Winnipeg Ballet
- See your school for a complete list of course offerings.

# AUTOMOTIVE TECHNOLOGY



Challenge yourself in an interesting and technical field. The Automotive Technology Program will help you gain knowledge and develop skills in a dynamic environment. You will learn how to inspect, service, and repair mechanical and electronic systems that are common on a modern vehicle. Upon completion you may qualify for any of the following options:

- Direct entry into the workplace
- Challenge level 1 apprenticeship exam
- Enter the second year of the automotive diploma courses at Red River College

## THIS PROGRAM INCLUDES

- AUTO ELECTRONICS/ELECTRICAL SYSTEMS
- BRAKE SYSTEMS
- CV ASSEMBLY
- DRIVETRAIN/TRANSMISSION SYSTEMS
- ENGINE FUNDAMENTALS
- ENGINE RECONDITIONING
- ENGINE TUNE-UPS
- FUEL SYSTEMS
- LIGHT SERVICE AND REPAIR
- SUSPENSION SYSTEMS
- SHOP SAFETY
- WHMIS TRAINING

## CAREER OPPORTUNITIES

- AIRCRAFT REPAIR
- AUTOMOTIVE SERVICE CENTRE
- BRAKE SHOP
- DEALERSHIP
- FRONT-END ALIGNMENT CENTRE
- MUFFLER SHOP
- REMANUFACTURING SHOP
- TUNE-UP CENTER
- TIRE/TRANSMISSION SHOP
- TRUCKING COMPANIES

## STUDENTS NEED TO SUPPLY

- CSA approved steel toed boots or shoes
- CSA approved clear safety glasses (tinted safety glasses are not allowed)
- Cotton coveralls (covering arms, legs and body)

## APPRENTICESHIP PROGRAM OPTIONS

Students who maintain an average of 70% or higher at the end of the eight courses will be eligible to challenge the Manitoba apprenticeship standard level 1 exam. In addition, students can receive credit for 900 hours of work experience toward a level 1 status. An additional 900 credit hours can be earned through part time employment and the high school apprenticeship program. See page 9.

## ELECTRIC CAR PROGRAM

This year the automotive program is launching an electric vehicle build as part of our ongoing curriculum development. The student will learn about the development of electric vehicles including current trends in the automotive industry world-wide. The student will also learn about the newest battery technologies as well as all the other parts that make up a modern electric vehicle. Students will build the "Switch Labs" fully functional electric vehicle and learn the skills required to do so.

## GRADE 9 • 1 CREDIT

### AT10SI INTRO TO AUTOMOTIVE TECHNOLOGY 15S (NOT REQUIRED FOR TECHNICAL VOCATIONAL DIPLOMA)

This course will appeal to students who are interested in exploring the automotive industry. Grade 9 auto tech students will gain knowledge in industrial safety, hand tool identification and use as well as a basic introduction to vehicle systems and maintenance. Students will work on bench projects as well gain exposure on vehicles.

## GRADE 10 • 1 CREDIT

### AT20SASS AUTOMOTIVE SYSTEMS AND SERVICES 20S

This exploratory course will allow students to sample automotive topics for one credit. Students will learn to safely perform preventive maintenance, basic automotive repairs, and detect major problems through early warning signs. Classes are a combination of classroom theory and hands-on shop work. Shop activities will include tire changing and repair, oil changes, fluid level checks, hose, belt, wiper, and bulb replacement, engine boosting, steering, suspension exhaust, brake and cooling system repairs, as well as other troubleshooting and maintenance procedures.

## GRADE 11 • 4 CREDITS

### AT30SDFS DRIVE TRAIN FUNDAMENTALS SERVICE 30S AT30SCFS CHASSIS FUNDAMENTALS AND SERVICE 30S AT30SEFS ENGINE FUNDAMENTALS AND SERVICE 30S AT40SAES AUTOMOTIVE ELECTRICAL SYSTEMS 40S

The Grade 11 courses are more specific. You learn engine reconditioning, drive trains, brake systems, wheel alignment and clutch replacements on customer vehicles.

## GRADE 12 • 3 CREDITS

### AT40SVS1 VEHICLE SYSTEMS PART 1 40S AT40SVS2 VEHICLE SYSTEMS PART 2 40S AT40SADS APPLIED DIAGNOSTIC STRATEGIES 40S

In the final year you will study electrical diagnosis and repair, tune-ups and fuel system repair.

# BAKING AND PASTRY ARTS

## GRADE 9 • 1 CREDIT

### BP10SE EXPLORING BAKING AND PASTRY ARTS 10S

This hands-on introductory course is for students considering a career in the Pastry Arts or Hospitality Industry or simply wanting kitchen and bakeshop experience.

## GRADE 10 • 2 CREDITS

### BP20SI INTRO BAKING AND PASTRY ARTS 20S

### BP30SBCDP QUICK BREADS, COOKIES, DONUTS AND PIES 30S

This course is designed to accommodate students considering Pastry Arts as their major. Students will spend one period a day in theory where assignments, tests, power points and videos will be given, and units discussed. The second period will be hands on in the bake shop lab producing handmade baked goods as well as completing practical tests. Some of the units covered include: Bakeshop Equipment, Safety/Sanitation, Basic Baking Principals, Quick Breads, Doughnuts/Fritters, Pancakes and Waffles, Cookies, Pies, Syrups/ Creams/Sauces, and Yeast Dough.

## GRADE 11 • 3 CREDITS

### BP30SYDP YEAST DOUGH PRODUCTS 30S

### BP30SCFD CAKES, FILLINGS, ICINGS AND DECORATIONS 30S

### BP40STSP TARTS AND SPECIAL PASTRIES 40S

The following topics will be covered: Sanitation and Safety, Baking Ingredients, Lean and Rich Yeast Dough Products, Custards/Puddings/Mousse and Soufflés, Pastry Basics, Cake Mixing/Baking, Cake Assembly/Decorating, Fruit Desserts and Flambé. Strong math skills are recommended.

## GRADE 12 • 3 CREDITS

### BP40SMCDP MODERN AND CLASSIC DESSERTS AND PLATING 40S

### BP40SABP ADVANCED BREAD PRODUCTS 40S

### BP40SABK ADVANCED BAKING AND PASTRIES 40S

The emphasis of these courses is on the preparation of French Desserts and Pastries, Modern and Classic desserts including plating techniques. Also, advanced techniques on Artisan Bread Products, Chocolate and Sugar Decoration, Frozen Desserts and elegant Cakes are discussed. Teamwork, time management, and strong work ethic skills are practiced and evaluated to prepare students to enter the workforce.



Do you have a passion for creating sensational desserts, pastries, and baked goods? If so, this program is for you! This course is designed for students that have an interest in the Baking or Pastry Arts Profession. Here is the chance to learn the tricks of the trade to create your own delectable masterpieces. These courses are designed to prepare students to enter the work force with a general understanding and knowledge of ingredients, products and techniques. Balancing theory and hands-on practice in the Baking Lab, this program gives students the understanding, fundamental skills, and attitudes needed to progress and develop in a successful baking career. Students prepare desserts, pastries and other baked goods for the lunch cafeteria and dining room service. Students have the prospect to further their skills at Red River College in their one-year Baking and Patisserie Program after high school. The opportunities available in this trade area are unlimited as there are many ways students can improve their skills, including on the job training and through specialty classes and courses. Students interested must possess a good attitude, work ethic, and time management skills. Teamwork, participation and attendance are mandatory.

#### TRADE AREAS

- BAKER
- BAKERY MANAGEMENT
- CAKE DECORATOR
- CATERER
- CHEF INSTRUCTOR
- FOOD TRUCK OWNER
- PASTRY CHEF
- PERSONAL CHEF

#### SERVICE AREAS

- BAKERS HELPER
- CUSTOMER SERVICE
- PASTRY CHEFS HELPER

#### POST-SECONDARY/ COLLEGE OPTIONS

- APPRENTICESHIP (ALBERTA, ONTARIO)
- BAKING
- CULINARY ARTS
- HOSPITALITY & TOURISM
- HOTEL & RESTAURANT MANAGEMENT

#### RELATED CAREER OPTIONS

- FOOD BROKER
- FOOD PHOTOGRAPHER
- FOOD SCIENCE
- FOOD STYLIST
- HEALTH INSPECTOR
- NUTRITIONIST/DIETITIAN
- PROFESSIONAL FOOD WRITER/BLOGGER

#### STUDENTS MUST ADHERE TO:

A professional and sanitary dress code during lab time. Long pants and closed toed/non-slip shoes are mandatory for student safety. Gel nails/nail polish and all jewellery on the hands, wrist and lip must be removed. Any other facial piercings must not pose a safety or sanitary risk.

#### COURSE FEES:

There is a uniform fee of \$35.00 per year for students in gr. 10, 11 and 12. Alternatively, students may purchase their own jacket to wear throughout the course of the program which will be laundered daily at the school. (approximate student jacket cost is \$60.00)



# CARPENTRY



If you enjoy working with your hands, have good eye-hand coordination, good basic math skills and some creativity, you may wish to consider Carpentry. Carpentry deals with the construction of buildings, furniture and cabinetry using wood products as the primary construction material. The carpentry course covers the proper use and safe operations of tools and equipment used in the industry.

## COMPLEMENTARY COURSES

To further the benefits of the Carpentry Program, consider taking: Drafting, Applied Math, and Physics.

## THIS PROGRAM INCLUDES

- ADVANCED MACHINE OPERATIONS
- BASIC SURVEYING
- BLUEPRINT READING
- CABINET MAKING
- CONCRETE AND WOOD FOUNDATIONS
- FLOOR AND WALL FRAMING
- INTERIOR AND EXTERIOR FINISHING
- ROOF FRAMING
- SHOP SAFETY
- STAIR CONSTRUCTION
- WHMIS

## CAREER OPPORTUNITIES

- ARCHITECTURAL DRAFTING
- BUILDING MATERIALS SALES
- CABINET & FURNITURE PRODUCTION
- CIVIL ENGINEERING
- COMMERCIAL CONSTRUCTION
- DRY WALLER
- EXTERIOR FINISHES
- FINISH CARPENTRY
- MANUFACTURING
- RESIDENTIAL CONSTRUCTION
- WINDOWS/DOORS

## STUDENTS NEED TO SUPPLY

- IMPERIAL TAPE MEASURE
- PENCILS
- BINDER
- SAFETY SHOES OR BOOTS REQUIRED FOR GRADES 11 AND 12

## GRADE 9 • 1 CREDIT

### CP10SIC INTRODUCTION TO CARPENTRY 10S

Grade 9 Carpentry is for students who are interested in wood working and carpentry. Students will be introduced to wood working tools and how to safely use them in a shop environment. Students will build a number of projects to familiarize them with the tools as well as some of the woods and wood products.

## GRADE 10 • 1 CREDIT

### CP20SCF CARPENTRY FUNDAMENTALS 20S

Grade 10 Carpentry is the prerequisite for the Carpentry major program. Students will become familiar with the woodworking environment and the use of hand tools, portable power tools and stationary equipment. Cutting boards, wall shelves, small tables, Muskoka chairs and an introduction to shed framing are the types of projects commonly built in this course.

## GRADE 11 • 4 CREDITS

### CP30SCTE CARPENTRY TOOLS AND EQUIPMENT 30S

### CP40SSC SURVEYING AND CONCRETE 40S

### CP30SF FRAMING 30S

### CP40SAF ADVANCED CARPENTRY 40S

## GRADE 12 • 3 CREDITS

### CP30SIEF INTERIOR AND EXTERIOR FINISHING 30S

### CP40SCM CARPENTRY MILLWORK 40S

### CP40SAC APPLIED CARPENTRY 40S

The final year of Carpentry focuses on finishing and the fine woodwork skills. The major units covered are basic stair building, interior finishing including dry walling and trim work, advanced machine operations and cabinet making. The final course covers trade entry topics including Trade Safety, Awareness, Apprenticeship and post-secondary opportunities in the construction trades while completing a final project.

# COLLISION REPAIR & REFINISHING TECHNOLOGY

## GRADE 9 • 1 CREDIT

### CR10SE EXPLORATION OF COLLISION REPAIR AND REFINISHING TECHNOLOGY 10S

This is designed to give students an opportunity to learn the basic skills in Collision Repair and Refinishing. Topics Include; Safe work procedures/WHMIS and personal protective equipment, MIG welding, setup maintenance, small dent repair, plastic repair, metal repair and fabrication, automotive detailing, paint preparation, spraying automotive finishes, automobile dismantling, tool use and maintenance.

## GRADE 10 • 1 CREDIT

### CR20SICR INTRO TO COLLISION REPAIR AND REFINISHING 20S

This is designed to give students an opportunity to learn more advanced skills in collision repair and refinishing. This course is required to major in grade 11 and 12. Students will learn shop safety, WHMIS, hand and power tools, advance welding, repairing minor dents, panel replacement and alignment, advanced paint prep, application of automotive finishes, masking techniques and paint mixing and matching. Career preparation, work experience will also be available through Grades 11 and 12.

## GRADE 11 • 4 CREDITS

### CR30SFCR FUNDAMENTALS OF COLLISION AND REFINISHING 30S

### CR30SAMW AUTOMOTIVE METALS & WELDING

### CR30SCP CORROSION PROTECTION 30S

### CR40SDASR DAMAGE ANALYSIS & STRUCTURAL REPAIR 40S

In the second year of study you will focus on more advanced auto body repair and refinishing techniques. You will be taught panel replacement, hydraulics usage, panel alignments and the fundamental skills required in the auto body trade. You will also have the opportunity to learn modern spray techniques and application of refinishing materials.

## GRADE 12 • 3 CREDITS

### CR40SCT COLOUR THEORY & CAREER PREPARATION 40S

### CR40SWBPR WELD-ON BOLT-ON PANEL REFINISHING 40S

### CR40SSPR SURFACE PREPARATION AND REFINISHING 40S

During the third year of the program you will learn the fundamentals of chassis and frame repair, collision analysis and repair estimating. Advanced re- finishing techniques in the areas of partial and spot repairs are also covered. Students will focus on colour matching and mixing of water-based paints.



Auto body is a technical program that covers the metal repairs and painting procedures on automotive vehicles. You will have the opportunity to develop skills which will readily enhance your abilities to make auto body repairs to vehicles and to seek employment in auto body, welding related fields, estimating, parts management and the automotive industry. This course is open to all students.

### THIS PROGRAM INCLUDES

- BASIC PREPARATION
- COLLISION REPAIRS
- COLOUR MATCHING
- CUSTOM PAINTING
- ESTIMATING
- MIG WELDING
- OXY-ACETYLENE WELDING
- PAINT APPLICATION
- PAINT PREPARATION
- SHEET METAL REPAIR
- SHOP MANAGEMENT
- SHOP SAFETY
- STRUCTURAL ALIGNMENT
- WHMIS TRAINING

### CAREER OPPORTUNITIES

- AFTER MARKET SALES AUTOBODY WORK
- AUTOMOTIVE FIELD TECHNICIAN
- AUTOMOTIVE RECYCLE INDUSTRY
- BUS MANUFACTURING
- DETAILING
- ESTIMATING
- GRAPHICS STRIPE DESIGN
- PAINT TECHNICAL REP
- PARTS MANAGEMENT
- WELDING INDUSTRY

### STUDENTS NEED TO SUPPLY

- CSA approved steel toe boots or shoes. \*Mandatory for grades 11 and 12.
- CSA approved clear safety glasses. Tinted Safety glasses are not allowed. \*Mandatory for grades 9, 10, 11 and 12.

### APPRENTICESHIP PROGRAM OPTION

Upon successful completion of this course, graduates are eligible to write the Auto Body Apprenticeship Level 1 Exam.

# CULINARY ARTS



Culinary Arts is one of the fastest growing industries in Canada and for this reason there is a tremendous shortage of well-trained entry-level cooks. The Culinary Arts Program is designed to prepare students to enter the labour force. Students spend a portion of their day on theory and the balance of the day in the kitchen. Food will be prepared daily for cafeteria service by the students in the program. Selections will include hot entrées, soups, sandwiches, salads, snacks, beverages and desserts.

## CAREER OPPORTUNITIES

This program may lead to work in cafeterias, hotels, restaurants, hospitals, catering companies, supermarkets, bakeries, or post-secondary education. Students who choose to major in culinary arts will be eligible for the apprenticeship program.

SALES FIELD	SERVICE AREA OPPORTUNITIES	POST SECONDARY/ COLLEGE PROGRAMS	TRADE
<ul style="list-style-type: none"> <li>• BANQUET MANAGER</li> <li>• CATERING</li> <li>• PURCHASING AGENT</li> <li>• SALESPERSON</li> <li>• STOREROOM MANAGER</li> </ul>	<ul style="list-style-type: none"> <li>• BAKERS HELPER</li> <li>• COOKS HELPER</li> <li>• GENERAL KITCHEN HELP</li> <li>• SHORT ORDER COOK</li> <li>• WAITER/WAITRESS</li> </ul>	<ul style="list-style-type: none"> <li>• APPRENTICESHIP</li> <li>• APPRENTICESHIP MILITARY</li> <li>• BAKING</li> <li>• CULINARY ARTS</li> <li>• HOTEL &amp; RESTAURANT MANAGEMENT</li> </ul>	<ul style="list-style-type: none"> <li>• BAKER</li> <li>• CHEF</li> <li>• COOK</li> </ul>

## APPRENTICESHIP PROGRAM OPTION

The Culinary Arts program at Kildonan-East Collegiate is a fully accredited program with the province of Manitoba. The courses have been approved for accreditation of level 1 apprenticeship towards an interprovincial journeyman's red seal. The course is equivalent to the first year of the two-year apprenticeship program at Red River College. Students at Kildonan-East Collegiate who complete the apprenticeship program by achieving 70% on their test scores will be given credit for their first level of the red seal program at a college.

## COURSE FEES

There is a uniform fee of \$35.00 per year. Alternatively, students may purchase their own uniform which will be laundered daily at the school.

## GRADE 9 • 1 CREDIT

**CA10SECA EXPLORATION OF THE CULINARY ARTS 10S**  
This hands-on course is for students considering a career in the Culinary Arts, Hospitality Industry or simply want kitchen and bakeshop experience. Students will spend two days per week in theory, and three days in the kitchen.

## GRADE 10 • 2 CREDITS

**CA20SCP COOKING PRINCIPLES 20S**

**\*HH20SDRS DINING ROOM SKILLS 20S**

The Culinary Arts Program is a fully accredited program with the Province of Manitoba. The Grade 10 course in Culinary Arts is designed to accommodate students considering Culinary Arts as their Major. Students will spend time in theory and in the kitchen applying theory to prepare food for service. Units include: Trade Safety Awareness & Sanitation; Kitchen Equipment; Mise en Place, Basic Principles of Cooking & Food Science; Bakeshop Production; Quick Breads & Cookies; Sauces, Custards, Puddings, Mousses, Fruit & Fruit Desserts; Food Service & Hospitality. \*Dining Rooms Skills 20S will be an option credit and will not be counted towards a Senior Years Technology Education Program Diploma (Culinary Arts).

## GRADE 11 • 3 CREDITS

**CA30SGM GARDE MANGER 30S**

**CA30SPB PATISSERIE AND BAKING 30S**

**CA30SVFSF VEG, FUNGI, STARCHES & FARINACEOUS PRODUCT 30S**

Students will spend one period per day in theory and two periods in the kitchen applying this theory to prepare food for service. Units include: Food Presentation & Garnish; World Cuisine; Garde Manger; Meat & Game; Yeast Dough; Pastry & Pies; Vegetables, Legumes & Fungi; Starch & Farinaceous Product.

## GRADE 12 • 4 CREDITS

**CA40SSS STOCKS, SOUPS AND SAUCES 40S**

**CA40SBD BREAKFAST AND DAIRY 40S**

**CA40SMPFC MENU PLANNING AND FOOD COSTING 40S**

**CA40SMPFS MEATS, POULTRY, FISH AND SEAFOOD 40S**

Students will spend one period per day in theory and three periods in the kitchen applying this theory to prepare food for service. Units include: Stocks & Soups; Sauces; Egg, Breakfast, Dairy & Beverages; Poultry, Sausages, Cured Foods, Pates, Terrines & Other Cold Foods; The Recipe & Cost Management; The Menu, Nutrition & Special Diets; Cakes, Syrup, Creams, & Icings; Fish & Shellfish.

# ELECTRICAL TRADES TECH

**\*GRADE 10 THROUGH 12 COURSE CREDITS ARE USED FOR LEVEL 1 APPRENTICESHIP ACCREDITATION**

## **GRADE 9 • 1 CREDIT**

**ETT10SE EXPLORATION OF ELECTRICAL TRADES TECH 10S**  
(NOT REQUIRED FOR TECHNICAL VOCATIONAL MAJOR)

This is an optional course intended for students wishing to sample the Electrical Trades. The emphasis is on hands-on activities. Students are introduced to safety, tools and equipment, electrical/electronic systems.

## **GRADE 10 • 1 CREDIT**

**ETT20SI INTRODUCTION TO ELECTRICAL TRADES TECH 20S**

To provide a fascinating insight to the ever-increasing career possibilities in the Electrical field, this introductory "hands on" single credit course was designed for students from any grade level. Students will be introduced to basic electrical concepts. They will begin to design and wire circuits. Students are introduced to safety, tools and equipment.

## **GRADE 11 • 4 CREDITS**

**ETT30SETF ELECTRICAL TRADES DC FUNDAMENTALS 30S**

**ETT30SRW RESIDENTIAL WIRING 30S**

**ETT40SETF ELECTRICAL TRADES AC FUNDAMENTALS 40S**

**ETT30SEWM ELECTRICAL WIRING METHODS 30S**

Students will be introduced to basic electrical concepts. They will begin to design and wire circuits. Students are introduced to safety, tools, equipment and electrical/electronic systems. Areas of safety include instrumentation, measurement, component recognition, value determination and fabrication. Students will learn Ohm's Law as it relates to series, parallel and combination circuits. Students will also 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.

## **GRADE 12 • 3 CREDITS**

**ETT40SARW ADVANCED RESIDENTIAL WIRING 40S**

**ETT40SAETT APPLIED ELECTRICAL TRADES TECHNOLOGY 40S**

**ETT40SAEWM ADVANCED ELECTRICAL WIRING METHODS 40S**

In the Grade 12 Electrical Program you will learn advanced residential, advanced electrical wiring methods, intro to electric motor control and programmable logic control.



Electricity lights up our cities, factories, homes and provides power to all our modern appliances and entertainment equipment. It is also becoming a means of modern transportation in all-electric vehicles. If you have the desire to enter into a career with ever increasing opportunities, then the Electrical Program could be for you. In the Electrical Program you will learn how to install, maintain and repair many different forms of electrical wiring and equipment. Completion of the eight program courses, with a 70% average, accredits students with their Level 1 in-school portion of their electrical trade apprenticeship. They're also credited with 900 hours towards the required 1800 hours of Level 1.

## **COMPLEMENTARY COURSES**

If your career goal includes college or university; then the following academic subjects are strongly recommended: Math (Applied or Pre-Calculus), Physics and Computer Science. If your career goal is Apprenticeship you should consider applied or pre-calculus math, and physics 30s and/or 40s.

## **THIS PROGRAM INCLUDES**

- ALARM SYSTEMS/VIDEO SURVEILLANCE
- BASIC ELECTRICAL
- COMMUNICATIONS WIRING
- ELECTRICAL THEORY
- INTRO TO A/C, ELECTRIC MOTORS & GENERATORS
- INTRO TO MOTOR CONTROL
- INTRO TO PROGRAM LOGIC CONTROLLERS
- MULTI-METERS AND TEST EQUIPMENT
- POWER DISTRIBUTION SYSTEMS
- REPAIRING ELECTRICAL APPLIANCES
- RESIDENTIAL, COMMERCIAL & INDUSTRIAL WIRING METHODS
- SHOP SAFETY
- SOLDERING AND WORKING ON PRINTED CIRCUIT BOARDS

## **CAREER OPPORTUNITIES**

- CONSTRUCTION ELECTRICIAN
- ELECTRICAL ENGINEER
- ELECTRICAL ESTIMATOR
- ELECTRICAL INSPECTOR
- ELECTRICAL INSTRUCTOR
- ELECTRICAL PLANNER
- ENTREPRENEUR
- INDUSTRIAL ELECTRICIAN
- POWER ELECTRICIAN
- POWER LINE TECHNICIAN
- PROJECT MANAGEMENT

## **STUDENTS NEED TO SUPPLY**

- The first set of CSA approved safety glasses are supplied. Students are responsible for a new pair if these are lost, stolen, or damaged. Tinted safety glasses are not allowed.
- A scientific calculator.
- Coloured pencils or markers for colour coding electrical drawings.

## **APPRENTICESHIP PROGRAM OPTION**

This program is accredited for the level 1 technical in-school portion of the electrical trade apprenticeship.



# GRAPHIC DESIGN



Combine creativity with technology. Graphic Design is the art of arranging image and text to communicate a message. It may be applied in any media such as print, digital media, motion picture, television, and animation. Examples of graphic design include advertising, books, magazines, t-shirt graphics, logos, signs, packaging, posters, websites, television graphics, social media, and much more. This program uses a hands-on approach to teach the principles required to solve graphic design problems. Using industry-standard software and related programs, students develop the ability and confidence to create successful designs. The Graphic Design program has two main objectives: First, to provide students with theoretical concepts and practical skills utilized in the graphics industry. The second, to prepare students for a possible career in the communications industry.

## THIS PROGRAM INCLUDES

- ACROBAT
- ANIMATION
- CINEMA 4D
- CRITIQUES
- DESKTOP PUBLISHING
- DIGITAL IMAGE CREATION
- DRAWING
- FLASH
- FIELD TRIPS
- GUEST SPEAKERS
- ILLUSTRATOR
- INDESIGN
- INTERACTIVE MEDIA DESIGN
- LOGOS AND BRANDING
- MOTION GRAPHICS
- PACKAGING DESIGN
- PHOTOSHOP
- PORTFOLIO
- PRESENTATION DESIGN
- PRINCIPLES OF DESIGN
- PRINT DESIGN
- PRINT MAKING
- SIGNAGE
- TYPOGRAPHY
- WEB DESIGN
- WORK PRACTICUM

## CAREER OPPORTUNITIES

- ADVERTISING AGENCIES
- ART DIRECTOR
- CORPORATE COMMUNICATIONS DEPARTMENTS
- CYBER GRAPHIC DESIGNER
- DESIGNERS
- DESIGN STUDIOS
- DIGITAL PRODUCTION STUDIOS
- DIGITAL SERVICE BUREAUS
- ENTREPRENEUR
- FREELANCE DESIGNER
- ILLUSTRATOR
- INDUSTRIAL DESIGN
- MARKETING
- NEWSPAPERS AND MAGAZINES
- PACKAGING COMPANIES
- PRE AND POST PRESS
- PRINTING COMPANIES
- PRODUCTION ARTIST
- PRODUCTION COORDINATOR
- PUBLISHING HOUSE
- SIGN COMPANIES

## STUDENTS NEED TO SUPPLY

- USB Key/drive to back up their work files.

**\*PREREQUISITE: GD20SFGD FUNDAMENTALS OF GRAPHIC DESIGN 20S**

**\*NON-MAJOR GRADE 11, SELECT ANY ONE, TWO OR THREE OF THE 30S COURSES.**

**\*NON-MAJOR GRADE 12, SELECT ANY ONE OR TWO OF THE 40S COURSES.**

## GRADE 9 • 1 CREDIT

### GD10SEGD EXPLORATION OF GRAPHIC DESIGN 10S

(NOT REQUIRED FOR TECHNICAL VOCATIONAL MAJOR)

This course is an introduction to the field of graphic design. Through a series of exercises that will incorporate drawing, collage, and the computer, students will explore the fundamentals of communicating visually. This will provide a fundamental understanding of how design is used to resolve creative problems in the field of graphic design.

## GRADE 10 • 1 CREDIT

### GD20SFGD FUNDAMENTALS OF GRAPHIC DESIGN 20S

Through exposure to a wide variety of creative ideas, challenges, and media, students will experience and explore design theory, application, and creative problem solving while developing a variety of design projects. This is a studio course offering a basic foundation for understanding and applying the principles and elements of design. You will learn to think creatively and improve your ability to see and communicate effectively.

## GRADE 11 • 4 CREDITS

### \*GD30SGDL GRAPHIC DESIGN AND LAYOUT 30S

### \*GD30SIGD ILLUSTRATION FOR GRAPHIC DESIGN 30S

### \*GD30SIGRD INTERACTIVE GRAPHIC DESIGN 30S

### GD40SAIGD ADVANCED ILLUSTRATION FOR GRAPHIC DESIGN 40S

These courses consist of theoretical and practical presentations, lectures, demonstrations, assignments, sketchbook work, critiques, guest speakers, field trips and work experience to advance student skill and comprehension of Graphic Design. Through these experiences' students will continue to develop artistic and problem-solving skills. Students will also expand their technology skills through tutorials and practical assignments. These assignments will include design utilizing a variety of media including print, motion, and interactive media.

## GRADE 12 • 3 CREDITS

### \*GD40SAIGRD ADVANCED INTERACTIVE FOR GRAPHIC DESIGN 40S

### \*GD40SAGDL ADVANCED GRAPHIC DESIGN AND LAYOUT 40S

### \*GD40SGDP GRAPHIC DESIGN PORTFOLIO 40S

The final year of the Graphics Design program continues to enhance students' creative and technical abilities. Objectives include developing a professional attitude towards craftsmanship and the industry, increasing appreciation of design through awareness and understanding of its diverse manifestations, and strengthening students' technical abilities through work on real world projects. Students will be able to effectively problem solve, apply appropriate techniques, and discuss technical and aesthetic issues.

# HAIRSTYLING

## GRADE 9 • 1 CREDIT

### HS10SEH EXPLORATION OF HAIRSTYLING 10S

This introductory course, is a one credit course which is ideal for those interested in the exciting and diverse beauty industry and its related careers. Students will learn about basic hair maintenance, nail care, proper skin care & makeup application and personal health and wellness. In addition, students will study the importance of the trade by focusing on employability skills, such as organization, communication, and reliability.

## GRADE 10 • 4 CREDITS

### \*HS20SI INTRODUCTION TO HAIRSTYLING 20S

### HS20SBH BASIC HAIRSTYLING 20S

### HS20SBHC BASIC HAIR CUTTING & THERMAL STYLING 20S

### HS20SRSS RELATED SALON SERVICES 20S

(4 GRADE 10 CREDITS REQUIRED FOR TECHNICAL VOCATIONAL MAJOR)

Intro to Hairstyling is a hands-on program designed to explore basic hairstyling skills. Students are introduced to braiding, up-styles, roller setting, styling and blow-drying the hair. In the second 2 grade 10 credits, students will learn haircutting, haircolouring, chemical texture services, manicuring and facials.

## GRADE 11 • 4 CREDITS

### HS30SIH INTERMEDIATE HAIR CUTTING & BARBER TECHNIQUES 30S

### HS30SHCO HAIR COLOURING 30S

### \*HS30SIHA INTERMEDIATE HAIRSTYLING & ARTIFICIAL HAIRSTYLING 30S

### HS30SCTS CHEMICAL TEXTURE SERVICES 30S

The 2nd year of Hairstyling is dedicated to reviewing basic hairstyling, haircutting, chemical texture services and hair colouring; transferring the skills from mannequins to clients from the community.

## GRADE 12 • 4 CREDITS

### HS40SAHC ADVANCED HAIRSTYLING AND COLOURING 40S

### HS40SAHCC ADVANCED HAIRCUTTING & CHEMICAL TEXTURE SERVICES 40S

### HS40SSO SALON OPERATION 40S

### \*HS40SCP CERTIFICATE PREPARATION 40S

The 3rd year of Hairstyling is devoted to fine-tuning their skills. Students are exposed to advanced course work in men's and women's haircutting, hairstyling and hair colouring techniques. Additionally, students prepare for their Provincial Hairstyling exam.



If you are interested in the art and science of beauty, then a career in Hairstyling may be for you. During the three year Hairstyling program you will develop the necessary skills to enter a career that may branch into many different and challenging opportunities.

## THIS PROGRAM INCLUDES

- BASIC SKINCARE
- CHEMICAL TEXTURE SERVICES
- HAIRCOLOURING AND LIGHTENING
- LONG HAIR UP STYLES
- MANICURING
- MEN AND WOMEN HAIR CUTTING
- RECEPTION DUTIES
- RETAILING EXPERIENCE
- STYLING HAIR

## CAREER OPPORTUNITIES

- EDUCATOR
- EDUCATOR FOR HAIR CARE PRODUCTS/TECHNIQUES
- FIELD TECHNICIAN (FILM WORK)
- HAIR COLOURIST
- LICENSED HAIRSTYLIST
- MANUFACTURE SALES REPRESENTATIVE
- PLATFORM ARTIST
- RETAILING COSMETICS
- SALES REPRESENTATIVE
- SALON OWNER
- SALON RECEPTIONIST

## APPRENTICESHIP PROGRAM OPTION

With the completion of 1400 hours of technical training, grade 12 students that have maintained a 70% average or better in both practical and theory course work are able to challenge their provincial practical exam and enroll in the Inter-provincial Apprenticeship Program.

Once employed as a Hairstylist Apprentice under the supervision of a Journey Person, the apprentice must complete 1600 hours. These hours are usually completed within a 1-year calendar period. At this time, apprentices may challenge the inter-provincial Red Seal theory exam. After successfully achieving 70% or better, the apprentice will receive an inter-provincial Red Seal hairstyling license that enables them to work as a licensed Journey Person Hairstylist in other provinces across Canada.

## STUDENTS WILL REQUIRE:

- Grade 10: Comb & Brush Kit - \$30.00
- Grade 11: Haircutting Scissors - \$60.00
- Grade 12: Razor/Texturing shears - \$50.00 (OPTIONAL)

Kits can be upgraded throughout the program for an additional cost if needed.

*\*NON-MAJOR GRADE 10, SELECT INTRODUCTION TO HAIRSTYLING 20S*

*\*NON-MAJOR GRADE 11, SELECT INTERMEDIATE HAIRSTYLING & ARTIFICIAL HAIRSTYLING 30S*

*\*NON-MAJOR GRADE 12, SELECT CERTIFICATE PREPARATION 40S*

# INTERACTIVE DIGITAL MEDIA



If you are a gamer, a storyteller, a coder, an animation addict - Interactive Digital Media is the cutting edge of communication and entertainment. Digital Media includes games, websites, virtual reality/augmented reality, app development, video, animation and more. Interactive Digital Media is, increasingly, how humans learn about, communicate and interact with a connected global society. This program includes aspects of language arts, mathematics, physics, art, music, engineering, computer science and psychology. Students develop technical skills, but also learn the art of engaging an audience - the process of making something beautiful, meaningful, and fun. In this program, we will make games, animations, websites, apps, VR and AR experiences. We will build skills in graphics and code and begin a pathway to 21st century careers.

## THIS PROGRAM INCLUDES

- 2D & 3D GAME GRAPHICS
- AFTER EFFECTS
- ANIMATION FOR GAMES AND FILM
- ART
- CHARACTER DESIGN
- CINEMA 4D
- CODING FOR MOBILE GAMES, THE WEB, VIDEO GAMES & VR/AR EXPERIENCES
- DATABASES
- DREAMWEAVER
- FIELD TRIPS
- GAME DESIGN
- IDEA DEVELOPMENT
- ILLUSTRATOR
- INDUSTRY CONNECTIONS
- JAVASCRIPT
- ONLINE FORMS
- PHOTOSHOP
- PROJECT PLANNING
- RESPONSIVE DESIGN
- STORYBOARDING
- TEAMWORK
- TITLING AND MOTION GRAPHICS
- UNITY GAME ENGINE
- VIDEO EDITING & PRODUCTION
- WEB GRAPHICS

## CAREER OPPORTUNITES

- 2D ARTIST
- 3D MODELLER
- ADVERTISING AGENCIES
- ANIMATOR
- APP DEVELOPER
- ARCHITECTURE
- CONCEPT ARTIST
- EXHIBIT DESIGNER
- FREELANCE ARTIST
- GAME DESIGNER
- GOVERNMENT DEPARTMENTS
- INDUSTRIAL DESIGNER
- INTERFACE DESIGNER/DEVELOPER
- MOTION GRAPHICS ARTIST
- ONLINE NEWS MEDIA
- PRODUCER
- PROGRAMMER
- PUBLIC RELATIONS & COMMUNITY
- GAME STUDIOS
- TEXTURE ARTIST
- VFX ARTIST/PROGRAMMER
- VIDEO EDITOR
- VR/AR DEVELOPER
- WEBSITE DESIGNER/DEVELOPER

**\*NON-MAJOR GRADE 11, SELECT INTERACTIVE DIGITAL MEDIA DESIGN 30S**

**\*NON-MAJOR GRADE 12, SELECT PROJECT MANAGEMENT FOR IDM 40S**

## GRADE 9 • 1 CREDIT

### DM10SEDM EXPLORATION OF INTERACTIVE DIGITAL MEDIA 10S

Students will create an online portfolio of work that includes web development, animation, 2D and 3D games. Students will engage in the prototyping process to conceive, collaborate, plan, draw, model, code, test and revise digital media projects.

## GRADE 10 • 1 CREDIT

### DM20SIDM INTRODUCTION TO INTERACTIVE DIGITAL MEDIA 20S

This course has a project-based focus, including video editing, character design, 2D and 3D graphics, and coding for video games. Students will document the development process from concept to a prototype product and present their projects as online media.

## GRADE 11 • 3 CREDITS

### \*DM30SIDMD INTERACTIVE DIGITAL MEDIA DESIGN 30S

### DM30SIDMAC INTERACTIVE DIGITAL MEDIA ASSET CREATION 30S

### DM30SCIDM CODING FOR INTERACTIVE DIGITAL MEDIA DESIGN 30S

Interactive Digital Media Design is about turning ideas into reality. IDM Design introduces project management, art and interactive design theory and utilizes a "learn by doing", collaborative approach.

Asset Creation for IDM focuses primarily on the artistic processes for creating 2D and 3D art assets. Students will design and create 2D and 3D characters and environmental art and learn the technical requirements for producing assets for a variety of projects.

In Coding for IDM, students gain theoretical knowledge, and practice in the development of code for interactive media projects. Students will explore topics such as Player controls, scoring, creating game play, user inter-faces, and coding for websites.

## GRADE 12 • 4 CREDITS

### DM40SFDM FUTURES IN INTERACTIVE DIGITAL MEDIA 40S

### DM40SAAC ADVANCED INTERACTIVE DIGITAL MEDIA ASSET CREATION 40S

### DM40SAC ADVANCED CODING FOR INTERACTIVE DIGITAL MEDIA 40S

### \*DM40SPM PROJECT MANAGEMENT FOR INTERACTIVE DIGITAL MEDIA 40S

Futures in IDM will develop an online portfolio and make connections with industry to prepare pathways to employment in the IDM industry.

Advanced IDM Asset Creation is focused on developing individual creativity in many forms, from 2D graphics to 3D models, animation, videos music and sound.

Advanced Coding for IDM will experience the development of coding on many platforms and create solutions for a variety of interactive projects.

Project management for IDM focuses on the collaborative design process and workflow "pipelines" that organize complex projects from idea generation to a finished project.

**THIS IS THE ONLY SINGLE OPTION COURSE FOR GRADE 12**



# PHOTOGRAPHY

## GRADE 9 • 1 CREDIT

### PH10SEP EXPLORATION OF PHOTOGRAPHY 10S

(NOT REQUIRED FOR TECHNICAL VOCATIONAL DIPLOMA)

This optional course is designed for students to explore photography. Students will learn the basic functions of a camera, as well as the introductory skills used in photographic editing. They will be introduced to the history of photography, as well as photography's theoretical principles. They will also learn how to make the most of available light and how to control it.

## GRADE 10 • 1 CREDIT

### PH20SPE INTRODUCTION TO PHOTOGRAPHY 20S

This course is designed for students who are interested in the photography program. Students will learn photographic theory, the functions of a camera, as well as photographic editing skills and the history of photography. They will explore the use of different light sources. Computer applications, technology and software is a key component in this course. Students will also learn film processing, as well as black and white printing in a photographic darkroom.

## GRADE 11 • 4 CREDITS

### \*PH30SPE PHOTOGRAPHIC EQUIPMENT 30S

### \*PH30SPL PHOTOGRAPHIC LIGHTING 30S

### PH30SDD DIGITAL DARKROOM 30S

### PH40SAPE ADVANCED PHOTOGRAPHIC EQUIPMENT 40S

The photography course is more technically demanding in Grade 11. Students will focus on the safe and appropriate use of professional photographic equipment, such as the functions of DSLR cameras, different types of lenses, and tripods. They will also learn all aspects of lighting, including lighting theory, techniques, and styles as well as basic digital editing techniques, including layout, resolution, tonal and colour correction, crop ratios, and output. At the end they will be able to use critical thinking skills to select and utilize the most appropriate equipment to complete photographic assignments. Introduction to Photography is highly recommended before taking any grade 11 photography courses.

## GRADE 12 • 3 CREDITS

### \*PH40SAPL ADVANCED PHOTOGRAPHIC LIGHTING 40S

### \*PH40SADD ADVANCED DIGITAL DARKROOM 40S

### PH40SAPH APPLIED PHOTOGRAPHY 40S

This course builds on the skills and knowledge learned in grade 11. Students will focus on the advanced use of professional photographic lighting and advanced digital editing techniques. Students will use critical thinking skills to manipulate various forms of lighting to complete photographic assignments as well as select the most appropriate software and tools to professionally edit images to achieve desired results. The study of portraiture, commercial, architectural, drone photography as well as digital workflow is a major part of the program.



The art and science of creating a lasting image. Photographic skills are developed through a variety of projects. When participating in the Photography program, you will build on your photography skills and learn by using state-of-the-art photography equipment. Students are responsible for completing their projects from start to finish, including everything from the set-up to the final print. Digital imaging is a major part of the photography program. Students learn various photographic techniques with digital cameras and image manipulation using advanced editing software programs Adobe Photoshop and Lightroom. Such tasks will include re-sizing, color correction, image manipulation, editing using Camera RAW, as well as preparing images for printing and social media applications. Photography students play a major role in producing images for all aspects of our school and will gain experience working with real clients. Photography is a skill that can be applied to enhance the possibility of future employment. Upon graduation you will be equipped with the knowledge, skills, and attitudes required to find entry-level employment in the industry. You will leave with an impressive portfolio containing readily available work samples to show prospective employers as well as learning a lifelong technical skilled trade.

## THIS PROGRAM INCLUDES

- ADVANCED EDITING
- B & W PRINTING
- CAMERA TECHNIQUES
- COMPOSITION
- DIGITAL IMAGING
- DIGITAL VIDEO AND NON-LINEAR EDITING
- DRONE AIRCRAFT TECHNOLOGY
- FILM PROCESSING
- LIGHTING
- PICTURE RETOUCHING
- PORTFOLIO
- PORTRAITURE
- SCANNING
- YEARBOOK PHOTOGRAPHY

## CAREER OPPORTUNITIES

- AERIAL PHOTOGRAPHY
- COMMERCIAL ADVERTISING STUDIOS
- COMMUNICATIONS
- CUSTOM PHOTO LABS
- FASHION
- FINE ARTS
- FREELANCE PHOTOGRAPHER
- JOURNALISM
- MEDICAL PHOTOGRAPHY
- PORTRAIT STUDIOS
- PROCESSING LABS
- PUBLIC RELATIONS
- RETAIL SALES
- SCIENTIFIC AND RESEARCH INSTITUTES

**\*NON-MAJOR GRADE 11 OPTION – MUST SELECT PHOTOGRAPHIC EQUIPMENT AND PHOTOGRAPHIC LIGHTING.**

**\*NON-MAJOR GRADE 12 OPTION – MUST SELECT PHOTOGRAPHIC LIGHTING AND ADVANCED DIGITAL DARKROOM.**

# REFRIGERATION & AIR CONDITIONING



Are you looking for a rewarding and challenging career choice with lots of earning potential? Do you enjoy working with your hands? Then the Refrigeration and Air Conditioning Program is for you. You will learn how to install, repair, and service various types of heating, cooling and ventilation equipment used in our homes. This industry is focused towards providing us with a clean and comfortable indoor environment regardless of the outdoor weather conditions. Upon successful completion of the course, graduates have the option of directly entering the work force or pursuing their studies at a post-secondary institution.

## COMPLEMENTARY COURSES

To fully benefit from the Refrigeration and Air Conditioning program, you may wish to consider taking: Electrical Exploratory and/or Carpentry Exploratory.

## THIS PROGRAM INCLUDES

- CONTROL CIRCUITRY
- COPPER TUBING
- CURRENT ELECTRONIC AND DIGITAL TEST EQUIPMENT RELATED TO THE INDUSTRY
- EVACUATION EQUIPMENT
- GAS PIPING
- HVAC EQUIPMENT
- LAYOUT AND BLUEPRINT READING
- REFRIGERANT RECOVERY
- SERVICE AND REPAIR
- SHEET METAL
- SHOP SAFETY
- TROUBLE SHOOTING SKILLS
- WHMIS
- WORK EXPERIENCE

## CAREER OPPORTUNITIES

- BUILDING OPERATION AND MAINTENANCE
- CONTRACTING SECTORS
- ENGINEERING
- MANUFACTURING SECTORS
- MARKETING SECTORS
- POWER ENGINEERING
- TECHNOLOGY AND TECHNICIAN OPTIONS
- UTILITIES
- WHOLESALE SECTORS

## STUDENTS NEED TO SUPPLY

- CSA approved boots or shoes. These are required for grade 11 and 12.

## GRADE 9 • 1 CREDIT

### RA10SERA EXPLORATION OF REFRIGERATION AND AIR CONDITIONING 10S

This is an optional course intended for students wishing to sample the Refrigeration and Air Conditioning trade. The emphasis of this course is on hands-on activities. Students are introduced to safety, tools and equipment, refrigeration and air conditioning systems and service procedures.

## GRADE 10 • 1 CREDIT

### RA20SR INTRODUCTION TO REFRIGERATION AND AIR CONDITIONING 20S

A student wanting to develop skills in the Refrigeration and Air Conditioning service and repair industry must have knowledge of the basic principles related to refrigeration and air conditioning equipment systems and service. Students learn safety, tools and equipment, refrigeration and air conditioning equipment systems, air movement systems and ductwork fabrication.

## GRADE 11 • 3 CREDITS

### RA30SSF SYSTEMS FUNDAMENTALS 30S

### RA30SPF PIPING FUNDAMENTALS 30S

### RA30SEF ELECTRICAL FUNDAMENTALS 30S

### RA40SEC ELECTRICAL CONTROLS 40S

Learning will begin in the classroom where you will develop problem-solving skills, working independently and in small groups through various activities related to the trade. Students will be given an understanding of how different mechanical systems work in conjunction with each other to provide us with a constant clean and comfortable indoor environment regardless of outdoor weather conditions.

## GRADE 12 • 4 CREDITS

### RA40SRAC REFRIGERATION & AIR-COOLING SYSTEMS 40S

### R40SHVA HEATING VENTILATION AIR CONDITIONING SYSTEM 40S

### RA40SARA APPLIED REFRIGERATION AIR CONDITIONING 40S

Your last year of study will be based on practical applications through building working models of HVAC systems. When good initiative is shown, you could be placed into a variety of different job placements to gain valuable work experience. As more demands are placed on energy consumption and indoor air quality, Refrigeration and Air Conditioning has become one of the fastest growing areas of employment in our modern society.

# COURSE DESCRIPTIONS

## CONTENTS

---

<b>APPLIED COMMERCE EDUCATION</b>	<b>25</b>
<b>CAREER DEVELOPMENT</b>	<b>25</b>
<b>COMPUTER</b>	<b>25</b>
<b>DANCE</b>	<b>26</b>
<b>DRAMA</b>	<b>26</b>
<b>ENGLISH</b>	<b>26</b>
<b>FRENCH</b>	<b>27</b>
<b>MATHEMATICS</b>	<b>28</b>
<b>MUSIC</b>	<b>29</b>
<b>PHYSICAL EDUCATION</b>	<b>30</b>
<b>SCIENCE</b>	<b>31</b>
<b>SOCIAL SCIENCES</b>	<b>31</b>
<b>SOCIAL STUDIES</b>	<b>32</b>
<b>SPANISH</b>	<b>33</b>
<b>VISUAL ART</b>	<b>33</b>

EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE COURSES LISTED HERE WILL BE OFFERED. ON OCCASION, CIRCUMSTANCES MAY ARISE WHICH WILL EITHER ADD COURSES TO, OR DELETE COURSES FROM THIS LIST. WHILE EVERY ATTEMPT WILL BE MADE TO SATISFY STUDENTS' COURSE SELECTIONS, COURSES MAY BE CANCELLED DUE TO LOW ENROLLMENT. ENTRY TO COURSES MAY BE CLOSED DUE TO HIGH ENROLLMENT. THIS ALSO APPLIES TO TECHNOLOGY EDUCATION COURSES.

## **APPLIED COMMERCE EDUCATION**

---

### **BL40S CANADIAN LAW 40S**

CREDIT: 1

This course provides the student with an introduction to Canada's legal system. This is an essential course for all students. You should register in this course if you plan on renting an apartment, buying a boat, snowmobile, starting your first job, getting married, having children, or even attending a sports venue.

Students will learn about their rights as a private citizen and the opportunities the legal system can offer them for future employment. There will be guest speakers from the Winnipeg Police Service, Stony Mountain Corrections, Youth Corrections and the RCMP. This course can be used as a credit for university entrance.

### **OLBL40S ONLINE LAW 40S**

CREDIT: 1

This course is the same as above, but online delivery.

## **CAREER DEVELOPMENT**

---

**\*Students enrolled in any grade level LIFE/WORK courses may earn up to two additional credits through the Credit for Employment Program.**

### **LWE10S LIFE/WORK EXPLORATION 10S**

CREDIT: 1

This grade 9 course provides students with an overview of career development outcomes with emphasis on building positive self-esteem, locating work information, and selecting high school courses. Units include personal management, career exploration, learning and planning, job seeking and maintenance, and career/community experiences. This course also enables students to access the Credit for Employment Program.

### **LWE20S LIFE/WORK PLANNING 20S**

CREDIT: 1

The experiential learning components of this grade 10 course will provide students with opportunities to explore potential occupations, and to demonstrate employability skills, essential skills, and specific occupational skills. The broad range of experiences may vary from community visitor presentations or volunteerism to community placements through which students have opportunities to gain knowledge and learn skills that are sometimes not available to them in their school setting. The course is divided into five themes: Personal and Money Management, Career Exploration, Learning and Planning, Job Seeking and Job Maintenance. This course also enables students to access the Credit for Employment Program.

### **LWT40S LIFE/WORK TRANSITION 40S**

CREDIT: 1

This course, taken at grade 11 or 12, engages students in topics such as personal and professional growth, career exploration, lifelong learning, securing and maintaining employment, success and promotion in the work place, communication and interpersonal skills, and ethics. This course also enables students to access the Credit for Employment Program. This single credit course is in-school only and does not have an internship component. For those students wishing to enter into an internship and earn up to four credits, please see Career Development/Career Bridge for grade 11 and/or 12.

### **CAREER DEVELOPMENT/ CAREER BRIDGE**

**GRADE 11**

### **LWB30S LIFE/WORK**

**BUILDING 30S**

### **CDI30G CAREER DEVELOPMENT INTERNSHIP 30G**

CREDIT: 2

This two-credit program will help students acquire and apply knowledge and skills to make appropriate decisions for life, work,

and education. The experiential learning components will provide students with opportunities to explore potential occupations, and to demonstrate employability skills (such as job searching, resume writing, and interview preparation), and essential and specific occupational skills. Attention will be given to understanding personality and the development of strong personal and professional relationships in the workplace. This program offers students an exciting and rewarding opportunity to explore the world of work or their chosen career to apply the skills obtained in class through an internship with a local business partner. Internships replace a half day of school for approximately three months. Upon completion of the placement, students will return to the classroom to continue their study of employability skills and success in the workplace. Students enrolled in this program enhance their resumes and earn powerful references that may be used for future educational and employment opportunities. Students are given first choice at posted employment opportunities at Kildonan-East Collegiate and, in some cases, may be hired at their internship.

### **CAREER DEVELOPMENT/ CAREER BRIDGE GRADE 12**

### **LWT40S LIFE/WORK**

**TRANSITION 40S**

### **CDI40G CAREER DEVELOPMENT INTERNSHIP 40G**

CREDIT: 2

This program helps to prepare students for their transition to the world of work through the practical study of topics such as personal and professional growth, career exploration, lifelong learning, securing and maintaining employment, success and promotion in the workplace, communication and interpersonal skills, and ethics. Attention will also be given to financial literacy issues such as making, managing, multiplying, and protecting money. With the help of a teacher mentor, students will identify work or career interests and

will then be placed in an internship with a local business partner. This placement will develop the student's knowledge, skills, confidence, and employability. This highly beneficial work placement will run for a half day (during regular school hours for a total of approximately three months). Upon completion of the placement, students will work with their teacher mentor to ensure a successful transition to the world of work or continued training/ education to achieve career goals after graduation from Kildonan-East Collegiate. Students enrolled in this program enhance their resumes and earn powerful references that may be used for future educational and employment opportunities. Students are given first choice at posted employment opportunities at Kildonan-East Collegiate and, in some cases, may be hired at their internship.

## **COMPUTER**

---

### **CS20S COMPUTER SCIENCE 20S**

CREDIT: 1

Understanding different dimensions of computing is part of the necessary skill set for an educated person in the 21st century. Whether you want to be a scientist, develop the latest application, or just know what it really means when someone says, "the computer made a mistake", studying computing will provide you with valuable knowledge. This course will provide an introduction to computational thinking and writing computer programs. Students will create their own computer applications to solve a variety of real-world problems and enhance their communication and problem-solving skills at the same time.

### **CS30S COMPUTER SCIENCE 30S**

CREDIT: 1

Top 5 Reasons to Take Computer Science:

5. Without Computer Science, not much works.
4. There will always be jobs for coders.
3. Solving problems is never boring.
2. Creating technology is lucrative.



1. Making. Really. Cool. Things. The major emphasis of this course is on developing problem-solving skills using the computer as a tool. Using object-oriented programming methodology, students will refine logical thinking skills, good programming style, and debugging techniques. Student will develop an interest in applying technology to problems in a wide variety of disciplines.

**CS40S COMPUTER SCIENCE 40S**  
EXPECTED PREREQUISITE: COMPUTER SCIENCE 30S OR 20S  
CREDIT: 1

This course will further develop problem-solving and computer programming skills. Computer Science has an immense impact on modern life. The job prospects are excellent, and the field is rigorous, challenging, and multi-faceted. Our lives depend upon computer systems and the people who maintain them to keep us safe on the road and in the air, help physicians diagnose and treat healthcare problems, and analyze weather patterns. A fundamental understanding of computer science enables students to be not just educated users of technology, but innovators capable of using computers to improve the quality of life for everyone. Skills learned in this course will help you thrive in this increasingly technological global economy.

**APCS42SA COMPUTER SCIENCE-A ADVANCED PLACEMENT 42S**  
EXPECTED PREREQUISITE: COMPUTER SCIENCE 40S  
CREDIT: 1

The goals of the AP Computer Science-A course are comparable to those in the introductory course for computer science majors offered in college and university computer science departments. It is not expected, however, that all students in the AP Computer Science-A course will major in computer science at the university level. The AP Computer Science-A course is intended to serve both as an introductory course for computer science majors and as a course for people who will major in

other disciplines that require significant involvement with technology. In this course, students will design and implement solutions to problems by writing, running, and debugging computer programs. They will be able to code fluently in an object-oriented paradigm using the programming language Java. The College Board AP exam will be offered to students in this course, although it is not a requirement. Successful completion of the exam may grant standing or credit at many post-secondary institutions, depending on their policies.

## DANCE

**DAN1A10S DANCE 10S**  
CREDIT: 1

This course has been designed to introduce you to basic dance skills and give you the opportunity to develop your creativity and self-expression through movement. You will have the chance to try out many styles of dance and begin the process of choreographing your own dances.

**DAN1A20S DANCE 20S**  
CREDIT: 1

In this course you will continue to build your dance vocabulary and technique. You will have more opportunities to create and share your own dances. Dance 20S gives you the chance to build your self-confidence and discover who you are as a dancer.

**DAN1A30S DANCE 30S**  
EXPECTED PREREQUISITE: DANCE 20S OR EQUIVALENT EXPERIENCE  
CREDIT: 1

This course takes the skills you learned in Dance 20S to an intermediate level. There is a greater emphasis on choreography projects and performance. This course allows you to build your confidence further and your leadership skills as you explore a greater variety of genres and styles of dance.

**DAN1A40S DANCE 40S**  
EXPECTED PREREQUISITE: DANCE 20S OR EQUIVALENT EXPERIENCE  
CREDIT: 1

For your final year of dance, you will

continue to develop your leadership and performance skills. In addition to choreographing and staging your own dances, you will have the opportunity to bring dance to the community through workshops and performances. This course will challenge you as a dancer and choreographer, as you explore an even wider variety of dance genres and stylistic elements.

## DRAMA

**DR10S DRAMA 10S**  
CREDIT: 1

Designed as an introduction to the basic skills of Dramatic Arts, Grade 9 Drama provides you with an opportunity to develop your creativity and expression. You will be involved in strengthening individual skills such as character development and movement, while also focusing on the importance of ensemble work such as improvisation.

**DR20S DRAMA 20S**  
CREDIT: 1

As a student of Dramatic Arts 20S, you will continue to build your self-confidence and presentation skills while learning the rudiments of stage acting technique. Although the course is designed as an introduction to the inspiring world of theatre, you will also be given the opportunity to debut your skills in- front of a live audience and/or in- front of the camera!

**DR30S DRAMA 30S**  
EXPECTED PREREQUISITE: DRAMATIC ARTS 20S OR EQUIVALENT.  
CREDIT: 1

This course will help you become a stronger performer and presenter, on and off the stage! The focus of the course is developing acting and directing techniques through exploration of short scenes, film work, monologues, stage combat, improvisation, and one-act plays. Other theatre experience may be acceptable as prerequisite to the course upon the discretion of the teacher.

**DR40S DRAMA 40S**  
EXPECTED PREREQUISITE:  
DRAMATIC ARTS 30S OR EQUIVALENT

CREDIT: 1  
In your final year of Dramatic Arts, this course is designed to provide you with opportunities to develop both leadership and performance skills. You will be challenged as an actor, playwright, and director while exploring genres such as original vignettes, Shakespeare, Greek tragedy, and contemporary film. Other theatre experience may be acceptable as prerequisite to the course upon the discretion of the teacher.

## DRAMA: THEATRE PRACTICUM

**DRAMA: THEATRE PRACTICUM 20S**  
PREREQUISITE: AUDITION & INTERVIEW WITH COURSE INSTRUCTOR  
CREDIT: 1

**DRAMA: THEATRE PRACTICUM 30S**  
PREREQUISITE: AUDITION & INTERVIEW WITH COURSE INSTRUCTOR  
CREDIT: 1

**DRAMA: THEATRE PRACTICUM 40S**  
PREREQUISITE: AUDITION & INTERVIEW WITH COURSE INSTRUCTOR  
CREDIT: 1

This unique course is open to all students who are interested in both a backstage and onstage role for the KEC major dramatic arts production. This is an intensive production-oriented course that provides students with an opportunity to develop an advanced level of performance and production/ technical skills required by a career in theatre. Theatre Practicum is scheduled outside regular school hours, mainly after school and weekends, with little tolerance for absenteeism. Commitment to the course is demanding, but the result of being part of a large-scale school production is rewarding and creates lifelong memories.

## ENGLISH

**E10F ENGLISH LANGUAGE ARTS 10F**  
CREDIT: 1.5  
This is a one and a half credit, required course which explores the following areas: making sense of various text forms, mechanics of writing, researching and managing information, and using language for power and agency.

Novels, short prose, film and poems are some of the mediums through which the students will experience the rudiments of analysis and creation of writing and visual pieces. Students will develop skills in literacy and communication by working with others, solving problems, and using technology. Evaluation consists of tests, a variety of writing assignments, inquiry projects and a final assessment.

Students enrolled in this course will also obtain a half credit in **LWE10S Life/Work Exploration 10S**. This course provides students with an overview of career development outcomes with emphasis on building and maintaining a positive self-image, interacting positively and effectively with others and locating work information. Units include personal management, setting life/work goals and career exploration. This course also enables students to access the Credit for Employment Program.

### **E20F ENGLISH LANGUAGE ARTS 20F**

EXPECTED PREREQUISITE:  
ENGLISH 10F  
CREDIT: 1

This course uses novels, plays, poems and short prose in order to develop an awareness of social issues in the past and the present societies, and the ability to think, discuss, and to write about these issues. Students will learn to both analyze and write for a variety of audiences and purposes, with a strong emphasis on developing writing skills. Evaluation consists of tests, a variety of writing assignments, and a final examination.

### **E20FPA PRE-ADVANCED PLACEMENT 20F**

EXPECTED PREREQUISITE:  
ENGLISH 10F  
CREDIT: 1

This course is more demanding than English 20F. It is the first step on your way to taking the Grade 12 Advanced Placement English course.

Students in this course will read primarily Canadian and American literature and while attending to all of the regular 20F ELA outcomes, students will experience more in-depth discussions, a broader study of literature and a more intense experience of the writing process. Some reading at home will be an expectation.

### **E30SCF COMPREHENSIVE FOCUS 30S**

EXPECTED PREREQUISITE:  
ENGLISH 20F OR 20FPA  
CREDIT: 1

A combination of the Literary and Transactional choices for Grade 11. 50% of the course will be Literary, 50% Transactional. This course is considered a natural continuation of the 20F course.

### **E30SLFPA LITERARY FOCUS 30S**

EXPECTED PREREQUISITE:  
ENGLISH 20F OR 20FPA ADVANCED PLACEMENT  
CREDIT: 1

This course is more demanding than English 30CF (Comprehensive) or 30ST (Transactional). It is considered a natural continuation from 20FPA (PRE-AP) course and prepares students well for the grade 12 AP English course. This course uses novels, plays, poems and short prose in order to expose students to a wide range of cultural, historical, and literary works. Students will learn to relate the purpose of a piece of writing to the style used by the writer. Evaluation consists of tests, a variety of writing assignments, and a final assessment.

### **E30ST TRANSACTIONAL FOCUS 30S**

EXPECTED PREREQUISITE: ANY  
ENGLISH 20S  
CREDIT: 1

The course is more practical in nature than the theoretical Literary choice and deals with the reading and writing of non-fiction forms such as newspaper articles and biographies. Students taking this course will learn to process information critically and efficiently.

### **E40SCF COMPREHENSIVE FOCUS 40S**

EXPECTED PREREQUISITE: ANY  
ENGLISH 30S  
CREDIT: 1 This course is a combination 50% Literary and 50% Transactional. It can be considered a natural progression from the 30S Comprehensive ELA course. It can also be used as the Grade 12 S-level ELA credit required to couple with Grade 12 AP ELA.

### **E40SLF LITERARY FOCUS 40S**

EXPECTED PREREQUISITE: ANY  
ENGLISH 30S  
CREDIT: 1  
This course can be considered a natural continuation of 30S PA for students not wishing to pursue the Grade 12 AP course. It can also be used as the Grade 12 S-level ELA credit required to couple with Grade 12 AP ELA. Students taking this course will deal with language of an imaginative and emotional nature. They will study the artistic shaping of the language, expressions of cultural heritage, more abstract concepts and language's influence on shaping modern life. The emphasis in this course is on fiction, both poetry and prose.

### **E40STF TRANSACTIONAL FOCUS 40S**

EXPECTED PREREQUISITE:  
ANY ENGLISH 30S  
CREDIT: 1  
It can be considered a natural continuation of the 30S Transactional course. It can also be used as the Grade 12 S-level ELA credit required to couple with Grade 12 AP ELA. The course is more practical in nature than the Comprehensive or Literary choices and deals with the reading and writing of non-fiction forms such as biographies and memoirs. Students taking this course will learn to process information critically and efficiently. Students will be required to write the Provincial English Examination, worth 30% of their mark.

### **OLE40STF ONLINE LEARNING**

CREDIT: 1  
Course is same as above, but online delivery.

### **E40STC LANGUAGE & TECHNICAL COMMUNICATION 40S**

EXPECTED PREREQUISITE:  
ANY ENGLISH 30S  
CREDIT: 1  
This course is designed for students interested in learning to write and interpret the style of writing required in the workplace. Students will learn to communicate clearly, using different techniques, to audiences of varying levels of technological knowledge. Assignments, such as interoffice memos, direction writing, letters of request and recommendation and writing to promote, are practical and related to real-life and work experiences. Vocational students can use this as their only grade 12 ELA course for graduation, and for entrance into most Red River Community College programs. It cannot, however, be used as a university entrance course.

### **APE42SLI LITERATURE & COMPOSITION AP42S**

RECOMMENDATION OF STUDENT'S GRADE 11 ENGLISH TEACHER AND ONE OF THE FOLLOWING 40SELA COURSES:  
E40SF, E40SLF, E40SCF  
CREDIT: 1  
Students read texts and prepare assignments that focus on literature and rhetoric that mirror what first-year university English students might complete. Texts include works from various literary periods and cultures, from classic plays and poems to contemporary novels to local short stories. Students will enroll in a regular S level ELA course semester 1 (preferably 40S Literary Focus) and write the Provincial English Examination, followed by the 42SAP course in semester 2 with the opportunity to write the Literature and Composition AP Exam in May.

## **FRENCH**

### **F10F FRENCH: COMMUNICATION & CULTURE 10F**

CREDIT: 1  
This is an introductory level French course where any student can join in no matter what level they are at! Students who are brand new to French should expect extensive extra home practice to be completed regularly.

Students will focus on French language and culture while playing many oral games, reading short stories, watching classic French movies and listening to (singing!) current songs. These and other activities will greatly encourage French dialogue and enrich the cultural experience. The focus this year is being able to communicate in the present, past and future tenses in a variety of real-life situations. Bienvenue!

### **F20F FRENCH: COMMUNICATION & CULTURE 20F**

EXPECTED PREREQUISITE:  
COMPLETION OF FRENCH: CULTURE AND COMMUNICATION 10F OR THE EQUIVALENT  
CREDIT: 1

The songs and games continue in grade 10 French! Students look at a variety of topics to improve their vocabulary, grammar and cultural awareness. Students will continue to have many opportunities to express their thoughts and opinions in the past, present and future. By means of several oral, written and group presentations, students demonstrate their growth in their language skills. Note: Students should have completed French 10F or equivalent to move into the French 20F course.

### **F30S FRENCH: COMMUNICATION & CULTURE 30S**

EXPECTED PREREQUISITE:  
COMPLETION OF FRENCH: CULTURE AND COMMUNICATION 20F OR THE EQUIVALENT.  
CREDIT: 1

Oral expression and comprehension is further developed through class conversations, prepared skits, presentations and dialogues. Students will also have an opportunity to read and write in French to a greater degree. This year the students will study the conditional present and past, as well as review the present, past and future tenses. Additional Information: The desire is that students will speak French during all activities and lessons. They will express their thoughts and ideas in an enriched, coherent fashion. Note: Students should have completed French 20F or equivalent to move into this course.

### **F40S FRENCH: COMMUNICATION & CULTURE 40S**

EXPECTED PREREQUISITE:  
COMPLETION OF FRENCH: CULTURE AND COMMUNICATION 30S OR THE EQUIVALENT  
CREDIT: 1

Students use their advanced language skills to discuss French literature, poetry and music and look into the lives of several Francophone musicians, actors and artists in today's popular culture. By means of several oral, written and group presentations, students demonstrate their growth in their language skills. The emphasis is in oral French, but there will be many opportunities for written expression as well. By the end of grade 12 French, students should be able to carry on an extensive dialogue in French in everyday situations. They are expected to speak in French during class time so that their in-class experience is enriched and meaningful. This course can be used as a University entrance and scholarship credit. There are several government sponsored opportunities that are available through the Explore program, for example, for students who wish to further their French language studies after graduation. Note: Students should have completed French 30S or equivalent to move into this course.

## **MATHEMATICS**

### **M10F MATHEMATICS 10F**

CREDIT: 2  
Grade 9 students will be working toward earning two math credits throughout the school year. The Grade 9 Transitional Mathematics (M10TF) focuses on developing positive student attitudes toward learning, improving communication skills and work habits, and increasing mathematical background and motivation. The Grade 9 Mathematics (M10F) course provides a foundation for the grade 10 to 12 mathematics, encourages engagement and problem solving, and explores a broad view of topics through

the four strands: numbers, patterns and relations, shape and space, and statistics and probability.

### **M20SE ESSENTIAL MATHEMATICS 20S**

CREDIT: 1  
This course is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields. The emphasis will be on consumer applications, problem solving, decision making and spatial sense as it relates to everyday life in a technological society. The learning outcomes are divided into eight topics: Analysis of games and numbers; Personal finance; Measurement; 2-D Geometry; Trigonometry; Consumer Decisions; Transformations and Angle Construction.

### **M20SI INTRODUCTION TO APPLIED AND PRE-CALCULUS MATHEMATICS 20S**

RECOMMENDED: MATH 10F – MINIMUM 80%  
CREDIT: 1  
This course is intended for students whose post-secondary planning does include a focus on mathematics and science-related fields. The topics studied form the foundation for topics to be studied in both Grade 11 Applied Mathematics and Grade 11 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. The learning outcomes are divided into three topics: Measurement; Algebra and Numbers; Relations and

### **M30SA APPLIED MATHEMATICS 30S**

RECOMMENDED: GRADE 10 INTRODUCTION TO APPLIED AND PRE-CALCULUS MATHEMATICS.  
CREDIT: 1  
Grade 11 Applied Mathematics is intended for students considering post-secondary studies that do not require a study of calculus. It promotes the learning of problem-solving techniques as they relate to

the world around us. The primary goals of this course are to have students develop critical-thinking skills through real-world situations mathematically. Technology is an integral part of both learning and assessment in Applied Mathematics. Graphing calculators, spreadsheets, or other computer software will be used by students for mathematical explorations, modelling, and problem solving. The Grade 11 Applied Mathematics course includes the following topics: Measurement, Geometry, Logical Reasoning, Statistics, and Relations and Functions. Students are required to purchase a TI-83 Plus Graphing Calculator (approximately \$140.00).

### **M30SE ESSENTIAL MATHEMATICS 30S**

CREDIT: 1  
Grade 11 Essential Mathematics is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields. The course emphasizes consumer applications, problem solving, decision making, and spatial sense, while providing a foundation for the topics studied in Grade 12 Essential Mathematics. Units of study include Interest and Credit, 3-D Geometry, Statistics, Managing Money, Relations and Patterns, Trigonometry, and Design Modeling. Students are expected to work both individually and in small groups on mathematical concepts and skills encountered in everyday life in a technological society.

### **M30SP PRE-CALCULUS MATHEMATICS 30S**

RECOMMENDED: A MINIMUM MARK OF 70% IN GRADE 10 INTRODUCTION TO APPLIED AND PRE-CALCULUS MATHEMATICS.  
CREDIT: 1  
Grade 11 Pre-Calculus Mathematics is designed for students who intend to study calculus and related mathematics as part of their post-secondary education. The course comprises a high-level study of theoretical mathematics with an emphasis on problem solving and mental mathematics. The topics



include the study of Algebra, Quadratic Functions, Reciprocal Functions, and Trigonometry. Students should constantly be looking for opportunities to see connections between the various outcomes in Grade 11 Pre-Calculus Mathematics.

#### **M40SE ESSENTIAL MATHEMATICS 40S**

EXPECTED PREREQUISITE:

MATHEMATICS 30S

CREDIT: 1

Grade 12 Essential Mathematics is intended for students whose post-secondary planning does not include a focus on mathematics and science related fields. Grade 12 Essential Mathematics is a one-credit course emphasizing 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.

#### **M40SA APPLIED MATHEMATICS 40S**

EXPECTED PREREQUISITE:

MATHEMATICS 30S APPLIED OR

PRE-CALCULUS - MINIMUM

60%. CREDIT: 1

Through classroom learning activities in Applied Mathematics, students acquire technical communication skills, solve problems using technology, and develop responsibility and flexibility in their work habits. Using technology as a tool, students explore many mathematical concepts, often while working on projects. While the content of the Applied Mathematics curriculum is similar to that of the Pre-Calculus Mathematics curriculum, the emphasis on technology as a means of solving problems allows modelling of many real-world situations. Students are required to purchase a TI-83 Plus Graphing Calculator (approximately \$140).

#### **M40SP PRE-CALCULUS MATHEMATICS 40S**

EXPECTED PREREQUISITE: MATH 30S PRE-CALCULUS 65%.

CREDIT: 1

40S Pre-Calculus Mathematics is

designed for students who intend to study calculus and related mathematics as part of post-secondary education. It builds on the topics studied in 30S Pre-Calculus Mathematics and provides background knowledge and skills for the study of calculus in post-secondary institutions. The course comprises a high-level study of theoretical mathematics with an emphasis on problem solving and mental mathematics. The topics include study of transformations of functions, trigonometric functions, exponential functions, logarithmic functions, polynomial functions, radical functions, rational functions, and the binomial theorem.

#### **M45SA ADVANCED MATHEMATICS**

PREREQUISITE: SUCCESSFUL

COMPLETION OF 40S PRE-CALCULUS

WITH A MARK OF 85% OR HIGHER.

STUDENTS MUST ENROLL IN BOTH

INTRODUCTION TO CALCULUS AND

ADVANCED MATH. ADVANCED

MATHEMATICS 45S

CREDIT: .5

This course is an optional course. It builds on the topics that were introduced in Grade 12 Pre-Calculus Mathematics. The prime objective of this course is to introduce the student to areas of mathematics which will be studied in depth in post-secondary programs. Students are introduced to the concepts of limits, derivatives and integration. In this course, problem-solving, communication, reasoning, and mental math are some of the themes in each unit.

#### **M45SC INTRODUCTION TO CALCULUS 45S**

CREDIT: .5

This course is an optional course. The course begins with a view of derivatives, differentiation techniques and applications of the derivative such as related rates and optimization problems. The course concludes with a brief study of the definite and indefinite integral and applications such as the area under curves. Students will engage in a variety of activities that promote the connections between symbolic math ideas and the world around you.

## **MUSIC**

#### **MUCB10S, 20S, 30S, 40S BAND 10S, 20S, 30S, 40S**

EXPECTED PREREQUISITE: GRADE 8

BAND, OR PREVIOUS MUSICAL

EXPERIENCE.

CREDIT: 1

Each of these Band courses includes two or three, 1-hour rehearsals per week on every other day for the whole year. This allows students to perform in an inviting setting where students can use technology to access music recordings and programs, as well as have one-on-one tutorials with the teacher outside of class time to improve their playing skills. Band is a fun, unique, performance-oriented course. Participation in all ensemble performances and local festivals is expected. Some band instruments can be provided by the school if necessary. You should get in touch with the instructor ahead of time to ensure that one could be provided for you.

#### **JAZZ BAND 10S, 20S, 30S, 40S**

EXPECTED PRE-REQUISITE: STUDENTS

MUST ALSO BE ENROLLED IN

CORRESPONDING LEVEL OF

BAND/GUITAR

CREDIT: 1

Each of these courses is one credit per year, spread out over the whole year with classes on every other day. It is expected that students make every effort to improve in rhythm, in reading, and playing skills, where they will increase their understanding of playing different styles of contemporary band music. Participation in all ensemble performances and local festivals is expected. Jazz band is a unique opportunity to feel like part of a smaller music community and really hone in on more technical playing skills to enhance your ability to enjoy music making.

#### **MUCC10S, 20S, 30S, 40S CHOIR 10S, 20S, 30S, 40S**

EXPECTED PREREQUISITE: NONE

CREDIT: 1

Choir is a one credit course including exposure to singing music of all different periods and styles. The

basics of vocal technique and choral singing will be studied. As this is a performance-oriented course, participation in all ensemble performances, local festivals and workshops is expected and very fun – students typically don't want to miss out on them. Activities during the year may include: Festivals, School Functions, and Community Functions including performances in other schools. Choir is a fantastic way to explore mindfulness in our daily lives, as it teaches relaxation techniques in breathing methods.

#### **MUG10S, 20S, 30S, 40S GUITAR 10S, 20S, 30S, 40S**

EXPECTED PREREQUISITE: NONE

CREDIT: 1

This course will develop each student's guitar playing skills, with an emphasis on popular music styles, through group and solo performance. Students of all abilities are welcome and encouraged to join the guitar class. Students with prior playing experience will be provided with opportunities for advanced instruction and performance opportunities. The guitar class is a relaxing and enjoyable break during a busy day. Learning the guitar can provide hours of enjoyment during leisure time. **Guitars for in class instruction can be provided by the school.**

#### **MUMP10S, 20S, 30S, 40S MUSIC PRODUCTION 10S, 20S, 30S, 40S**

EXPECTED PREREQUISITE: NONE

CREDIT: 1

Students of all abilities and interests are welcome. This course teaches the practical application of concepts and skills needed in a recording/home studio while allowing time for students to pursue their own projects and areas of interest.

Areas of focus include:

- Potential live or virtual field trips to commercial recording studios and live sound venues
- Audio recording
- Digital editing and mixing
- Song arrangement techniques
- Video editing and music videos
- Microphones and mixing consoles

- Live sound opportunities such as providing technical support for school productions and concerts.

## **PHYSICAL EDUCATION**

### **PEH10F PHYSICAL EDUCATION/ HEALTH EDUCATION 10F**

CREDIT: 1

The aim of the Physical Education Program is to promote fitness and participation in lifelong activities. Students will develop the necessary skills to participate successfully in a variety of team and individual sports. Fitness management, weight training, personal and social management, first aid and our healthy lifestyles units are all required units that each student must complete.

### **PEH20F PHYSICAL EDUCATION/ HEALTH EDUCATION 20F**

EXPECTED PREREQUISITE: PHYSICAL EDUCATION 10F

CREDIT: 1

This course will be similar to our Physical Education 10F class. Students will continue to develop their skills to promote fitness and participation in lifelong activities. Students will have the opportunity to choose several activities or sports they would like to participate in. Fitness management, weight training, CPR, nutrition and our healthy lifestyles units are all required units that each student must complete.

### **PEH30F GENERAL PHYSICAL EDUCATION/HEALTH EDUCATION 30F**

EXPECTED PREREQUISITE: PHYSICAL EDUCATION 20F

CREDIT: 1

This course is designed for students who enjoy participating in sporting activities such as basketball, volleyball, soccer, floor hockey, ultimate frisbee and badminton. This class will take place in the gymnasium or using outside facilities (football field, baseball diamond

etc.). Students must complete the following 3 components of the program: Core Health, Flexible Delivery (In class general physical education hours), Physical Activity Practicum (out-of-class 55 hours). This is a COMPLETE/INCOMPLETE course.

### **PEH30F PERSONAL FITNESS/ HEALTH EDUCATION 30F**

EXPECTED PREREQUISITE: PHYSICAL EDUCATION 20F

CREDIT: 1

Students create a personalized workout program consisting of resistance training and cardiovascular activities. This includes access to the Cardio Room (treadmill, stationary bike, elliptical) and Weight Room. Specific exercises like jump training and plyometrics can be incorporated into workouts. Activities may include yoga, pilates, HIIT, circuit training and exercise videos. Students must complete the following 3 components of the program: Core Health, Flexible Delivery (In class personal fitness hours), Physical Activity Practicum (out-of-class 55 hours). This is a COMPLETE/INCOMPLETE course.

### **PEH40F GENERAL PHYSICAL EDUCATION/HEALTH EDUCATION 40F**

EXPECTED PREREQUISITE: PHYSICAL EDUCATION 30F, OR 30E OR 30M

CREDIT: 1

This course is designed for students who enjoy participating in sporting activities such as basketball, volleyball, soccer, floor hockey, ultimate frisbee and badminton. This class will take place in the gym or using outside facilities (football field, baseball diamond, etc.). Students must complete the following 3 components of the program:

Core Health, Flexible Delivery (in class general physical education hours), Physical Activity Practicum (out-of-class 55 hours). This is a COMPLETE/ INCOMPLETE course.

### **PEH40F PERSONAL FITNESS/ HEALTH EDUCATION 40F**

EXPECTED PREREQUISITE: PHYSICAL EDUCATION 30F, OR 30E OR 30M

CREDIT: 1

Students create a personalized workout program consisting of resistance training and cardiovascular activities. This includes access to the Cardio Room (treadmill, stationary bike, elliptical) and Weight Room. Specific exercises like jump training and plyometrics can be incorporated into workouts. Activities may include yoga, pilates, HIIT, circuit training and exercise videos. Students must complete the following 3 components of the program: Core Health, Flexible Delivery (In class personal fitness hours), Physical Activity Practicum (out-of-class 55 hours). This is a COMPLETE/ INCOMPLETE course.

### **OLPEH30F ONLINE LEARNING PHYSICAL EDUCATION/HEALTH EDUCATION 30F**

EXPECTED PREREQUISITE: PHYSICAL EDUCATION 20F

CREDIT: 1

Online physical education students are motivated to do well in their courses and frequently register due to timetabling conflicts. Students are self-disciplined, which is reflected in their organization, time management and quality of work. Students should be very comfortable with educational technology (navigating websites, media tools, word processing...) and be willing to dedicate a minimum of 5 hours a week to the course. Students are responsible for mastering the lessons, completing the learning activities and assignments, attending monthly meetings and maintaining an up-to-date activity journal.

This course is designed to help students incorporate physical education as part of their daily routine.

### **OLPEH40F ONLINE LEARNING PHYSICAL EDUCATION/ HEALTH EDUCATION 40F**

EXPECTED PREREQUISITE: PHYSICAL EDUCATION 30F, OR 30E OR 30M

CREDIT: 1

Online physical education students are motivated to do well in their courses and frequently register due to timetabling conflicts. Students are self-disciplined, which is reflected in their organization, time management and quality of work. Students should be very comfortable with educational technology (navigating websites, media tools, word processing...) and be willing to dedicate a minimum of 5 hours a week to the course. Students are responsible for mastering the lessons, completing the learning activities and assignments, attending monthly meetings and maintaining an up-to-date activity journal. This course is designed to help students incorporate physical education as part of their daily routine.

## SCIENCE

### S10F SCIENCE 10F

CREDIT: 1  
Science 10F is a required core course. The course has four units from a variety of science disciplines. These include Exploring the Universe, Atoms and Elements, the Nature of Electricity and Reproduction.

### S20F SCIENCE 20F

EXPECTED PREREQUISITE: SCIENCE 10F  
CREDIT: 1  
Science 20F is a required core course. This course consists of four major units: Dynamics in Ecosystems, Chemistry in Action, In Motion, and Weather Dynamics. These units help to provide students with some basic scientific concepts so that they can better understand issues in the world around them. These units also provide a taste of Biology, Chemistry, Physics, and Earth Science. Students may choose to take more specialized courses in these disciplines in their Grade 11 and Grade 12 years.

### S30S SENIOR 3 CURRENT TOPICS IN SCIENCES 30S

EXPECTED PREREQUISITE: SCIENCE 20F  
CREDIT: 1  
Topics in Science 30S is a course that can be taken with Biology, Chemistry, Physics 30S or on its own as a Grade 11 science credit. The course content is intended to be both current and relevant and can be modified to fit the interests of students and instructor. Students will be involved in a significant amount of independent research as well as group work. Examples of possible topics are: Health and wellness, digestive system, immunity, space and ecological issues as well as a variety of possible industrial/vocational applications, and environmental science.

### B30S BIOLOGY 30S

EXPECTED PREREQUISITE: STUDENTS SHOULD ACHIEVE A MINIMUM OF 65% IN SCIENCE 20F.  
CREDIT: 1  
This course looks at the structure and functioning of the human body.

The major organ systems will be investigated with a focus on understanding and maintaining personal wellness. Finally, the diversity of living organisms is examined with hands on dissections and a look at the principles of Evolution.

### B40S BIOLOGY 40S

EXPECTED PREREQUISITE: BIOLOGY 30S  
CREDIT: 1  
Biology 40S starts with an intensive look at DNA, RNA and protein synthesis with application to the current topics of Genetic Engineering and Biotechnology. Mendelian and Human Genetics is then explored in detail. Finally, the diversity of living organisms is examined with hands on dissections and a look at the principles of Evolution.

### OLB40S ONLINE LEARNING

CREDIT: 1  
Course is same as above, but online delivery.

### C30S CHEMISTRY 30S

EXPECTED PREREQUISITE: STUDENTS SHOULD ACHIEVE A MINIMUM OF 65% IN SCIENCE 20F.  
CREDIT: 1  
Students enrolled in this course should have completed or be studying Mathematics 20S (Pre-Calculus or Applied). Chemistry 30S involves the study of the physical properties of matter, properties of gases, quantities of matter in chemical reactions, properties of solutions and organic chemistry. The properties of matter are explained by understanding behaviour at the atomic or molecular level. Laboratory work is also an important tool for learning.

### C40S CHEMISTRY 40S

EXPECTED PREREQUISITE: STUDENTS SHOULD ACHIEVE A MINIMUM OF 65% IN CHEMISTRY 30S. STUDENTS ENROLLED IN THE COURSE SHOULD HAVE COMPLETED MATH 30S (30S APPLIED, 30S PRE-CALCULUS).  
CREDIT: 1  
The emphasis in Chemistry 40S is on

a theoretical and quantitative treatment of topics such as electronic structure, kinetics, equilibrium, electro chemistry, and oxidation-reduction. Grade 12 Chemistry is a prerequisite for many of the science related courses at university and at Red River College.

### P30S PHYSICS 30S

EXPECTED PREREQUISITE: STUDENTS SHOULD ACHIEVE A MINIMUM OF 65% IN SCIENCE 20F. STUDENTS ENROLLED IN THIS COURSE SHOULD HAVE COMPLETED MATH 20SI INTRO TO APPLIED AND PRE-CALCULUS.  
CREDIT: 1  
Physics 30S includes a study of waves and wave theory, paying special attention to sound, light, and wave technologies. The mechanics unit focuses on basic kinematics (motion) and dynamics (the forces causing motion). Gravitational, electric, and magnetic fields are explored. The emphasis is on a qualitative understanding of fundamental physics concepts, but some analytical skills required for problem-solving, including algebra, trigonometry, graphing, and vector analysis, are necessary.

### P40S PHYSICS 40S

EXPECTED PREREQUISITE: STUDENTS SHOULD ACHIEVE A MINIMUM OF 65% IN PHYSICS 30S. STUDENTS ENROLLED IN THIS COURSE SHOULD HAVE COMPLETED MATH 30S PRE-CALCULUS OR MATH 30S APPLIED.  
CREDIT: 1  
Topics from Physics 30S are revisited in far greater mathematical detail. The studies of kinematics and dynamics are extended to include projectile motion, inclined planes, circular motion, work, energy, power, and momentum. The exploration of space unit includes a treatment of universal gravitation. The fields unit is extended to include Coulomb's law and electrical circuits. The course also includes a unit on physics-based medical technologies. Strong analytical and problem-solving skills are essential.

## SOCIAL SCIENCES

### HEC20SFS FAMILY STUDIES 20F

CREDIT: 1  
This course is designed to bring infant development and parenting concepts alive for students. The course will cover such topics as:  
- Birth  
- Careers and volunteer activities related to children  
- Caregiving  
- Fundamentals of development  
- Parenting: Role of the caregiver  
- Prenatal development studying children  
- Infant health and wellness  
- Pregnancy

### HEC30SFS FAMILY STUDIES 30S

CREDIT: 1  
The course focuses on the four areas of development (physical, intellectual, social and emotional) from age three through to pre-adolescence. This course will cover such topics as:  
- Careers related to children  
- Emotional development  
- Human needs  
- Intellectual development  
- Physical growth and development  
- Play  
- Social development  
- Studying children  
- The importance of parenting  
- The nurturing environment  
- Parenting styles

### HEC40SFS FAMILY STUDIES 40S

CREDIT: 1  
This course is designed to help students understand and to explore the dynamics of the family unit. This course will cover topics related from adolescence through to the elderly. Such topics will include:  
- The elderly  
- Adolescent development  
- Puberty  
- Mental health and wellness  
- Relationships  
- Self-management  
- Social development  
- The changing family  
- Gender roll and wellness

## **PSY40S PSYCHOLOGY 40S**

CREDIT: 1

Psychology is a course that will introduce students to the main components of human behaviour. Areas of focus include developmental psychology, normal and abnormal psychology, personality development, cultural, social and adolescent development. Topics are diverse, including non-verbal behaviour, advertising, psychological defense mechanisms, drives, needs and motivation, behaviourism, biological feedback, nature vs. nurture, religion in our society, psychology of death and grief and an examination of the human animal.

## **OLPSY40S ONLINE LEARNING PSYCHOLOGY 40S**

CREDIT:1

Course is same as above, but online delivery.

## **SOCIAL STUDIES**

### **CCW10F CANADA IN THE CONTEMPORARY WORLD 10F**

CREDIT: 1

The Grade 9 course is designed to help students gain a greater understanding of their society, their roles and responsibility within society and Canada's role on the world stage. Students will focus on the physical, historical and political factors that have shaped Canada. They will examine Canadian Identity, multiculturalism, our political, legal and economic processes, citizenship responsibilities and rights, and the implications of changing technology. Students will be required to do a variety of projects, research assignments, and presentations that promote literacy skill development and active citizenship.

### **G20F GEOGRAPHIC ISSUES OF THE 21ST CENTURY 20F**

EXPECTED PREREQUISITE:

SOCIAL STUDIES 10F

CREDIT: 1

Students will focus on a variety of

issues and challenges of the contemporary world. They will study concepts related to ownership and development of natural resources, production and distribution of food, development of industry and trade and increasing urbanization. These concepts will be studied as they relate to Canada, North America and the world. Students will use methods and tools of geography including geographic information systems (GIS) to examine issues and problems and to provide solutions.

### **HC30F HISTORY OF CANADA 30F**

EXPECTED PREREQUISITE:

GEOGRAPHY 20F

CREDIT: 1

This course takes a thematic approach to Canadian history placing particular emphasis upon social history. Themes that are examined are:

- The Peopling of Canada
- First Peoples and New France
- British North America
- Becoming a Sovereign Nation
- Achievements and Challenges
- Defining Contemporary Canada

There is an emphasis upon research and critical thinking in this course. Major tasks will include essay writing, article analysis, and presentations.

Note: Canadian History-30F is a required course for all River East Transcona School Division students.

### **CTF40S CURRENT TOPICS IN FIRST NATIONS, METIS, AND INUIT STUDIES 40S**

CREDIT: 1

Current Topics in First Nations, Metis, and Inuit Studies supports the empowerment of students through the exploration of the histories, traditions, cultures, world views and contemporary issues of Indigenous peoples in Canada and worldwide. Students gain knowledge and develop the values, critical thinking, communication, analytical, and inquiry skills that will enable them to better understand past and present realities of Indigenous peoples. Topics of study include:

- Image and Identity
- Relations with the Government
- Toward a Just Society
- Indigenous peoples of the World
- A Festival of Learning

This is a Grade 12 course that deals with mature content and concepts. However, the course will be open for students not in Grade 12 based on a case-by-case availability.

### **TREATIES AND THE TREATY RELATIONSHIP**

CREDIT: 1

The overarching goal of this course is to investigate the local Treaty 1 experience. The development of active democratic citizenship is fortified by a student understanding of the local Treaty relationship by engaging with local sources of knowledge as well as local spaces and places. Students investigate the historical and contemporary aspects of Treaty 1 using the themes of relationships, traditional teachings, local history, and Manitoba Numbered Treaties as entry points. The course is intended to: strengthen student identities by focusing on the local Treaty 1 experience; generate an awareness and understanding about First Nations people in Manitoba, and the contemporary relevance of the Treaty relationship as it expands Manitoban's concepts of identity and citizenship.

### **GI40S GLOBAL ISSUES: CITIZENSHIP AND SUSTAINABILITY 40S**

EXPECTED PREREQUISITE:

CANADIAN HISTORY 30F

CREDIT: 1

Global Issues: Sustainability and Citizenship provides learners with opportunities to reflect upon diverse world views and perspectives as they conduct inquiry into issues such as Media, Consumerism, Environment, Poverty, Wealth, and Power, Indigenous Peoples, Peace and Conflict, Oppression and Genocide, Health and Biotechnology, Gender Politics, Social Justice and Human Rights that are crucial to living in a

contemporary, interdependent, connected world. The course is intended not only to enrich learners' awareness of significant global issues, but to develop an ethos of concern as they come to understand their own capacities as contributing members of their local, national and global communities. Course work consists highly of "take action" initiatives where students need to devise ways of becoming contributors the global community. Students should have an interest in global topics if they are registering for this course.

### **GP30S PHYSICAL GEOGRAPHY 30S**

EXPECTED PREREQUISITE: CANADA IN THE CONTEMPORARY WORLD 10F AND GEOGRAPHIC ISSUES OF THE 21ST CENTURY 20F

CREDIT: 1

If you care about the environment, you need to register for this course. We will explore concepts related to environmental science, climate change, and our natural world. Physical geographers also look at the connections between these systems, how they change over time, and the implications of these changes. We will use an Indigenous perspective to explore land-based learning. COVID bearing, we will get outside into our natural environment to carry out experiments and explore.

### **CIN40S CINEMA AS A WITNESS TO MODERN HISTORY 40S**

PREREQUISITE: NONE

CREDIT: 1

GRADE 11 STUDENTS MAY REGISTER FOR THIS COURSE.

How do the movies compare to actual events? In this course, you will explore cinema as both an art form and interpreter of history. You will use the Historical Thinking Concepts from your grade 11 History class to analyze key events, ideas, and people, as represented in 20th and 21st century films. As we watch, you will engage in guided viewing responses, write film critiques, and conduct historical research to evaluate representations of history in film. Some of the themes we will explore include WWI/II, the Great Depression, the Holocaust, the Cold War, and the Civil Rights Movement, and the Middle East.



## SPANISH

---

### **SP20G SPANISH: 3 YEAR PROGRAMMING 20G**

CREDIT: 1

This course is designed for students who have no previous knowledge of the Spanish language. It is an introductory course which uses a communicative-interactive approach. The course focuses on oral communication. Students will make use of a wide variety of materials including recorded dialogues, music, and audio-visual materials. Oral activities include skits, games, dialogues/conversations. Reading activities include understanding menus, maps, signs, and schedules. Written activities include writing short descriptions or messages, and a simple autobiography.

### **SP30S SPANISH: 3 YEAR PROGRAMMING 30S**

EXPECTED PREREQUISITE:

SPANISH 20G

CREDIT: 1

This course is designed for students who have taken the introductory Spanish course and who wish to build on their proficiency in the Spanish language. The approach is interactive and communicative. Spanish 30S will challenge the students with more advanced grammar skills and also help to build both the students' vocabulary and confidence. Students will improve both written and oral communication skills in a wide variety of activities, such as games, skits, dialogues, films and web-based activities.

### **SP40S SPANISH: 3 YEAR PROGRAMMING 40S**

EXPECTED PREREQUISITE:

SPANISH 30S

CREDIT: 1

This course is accepted as a 40S level credit for both University of Winnipeg and University of Manitoba. The course is designed for students who wish to improve both oral and written fluency in the Spanish language. Course work and

class activities will follow a similar approach to the introductory and intermediate courses; however, this course will deal with more advanced grammar and vocabulary. Language skills that are acquired in this course will not only prepare a student for further language study at the university level, but they will also prepare a student for successful communication in a real-life Spanish speaking context. Some class activities will include songs, games, website usage, skits, videos, field trips, compositions, reading and listening activities.

## VISUAL ART

---

### **VART10S VISUAL ART 10S**

CREDIT: 1

Visual Art 10S is an exploratory course for Grade 9 students who may wish to continue with art courses in the future. Students will explore various 2 and 3-dimensional art forms to learn about the elements and principles of design. Students will explore major units including drawing and painting from different art styles, creative and mixed media exploration. Students will have an opportunity to try hand building with clay and other sculpting materials. Students will receive their own sketchbook and they will have access to a variety of shared art materials.

### **VART20S VISUAL ART 20S**

CREDIT: 1

Visual Art 20S is an introductory course designed for students wishing to learn art techniques and explore art concepts with some depth. Students will develop drawing skills, perceptive abilities and will solve problems of artistic expression. Techniques, art history, and creative expression are developed during our major projects that include drawing, painting, mixed media, clay sculpture, printmaking and still life. Students will receive their own sketchbook and they will have access to a variety of shared art materials.

### **VART30S VISUAL ART 30S**

CREDIT: 1

Visual Art 30S is an advanced course that builds on skills achieved during 10S/ 20S Visual Art or the equivalent. Artists will create a portfolio of technical and creative work during their time in the studio. Major units will include working from still life, exploring movements and themes in painting, figure drawing, as well as sculpture options with clay. Based on their previous training, students will begin to demonstrate originality and insight in their use of materials and ideas for their artwork. Students will receive their own sketchbook and they will have access to a variety of shared art materials.

### **VART40S VISUAL ART 40S**

CREDIT: 1

Visual Art 40S is an in-depth course that builds on skills achieved during 30S Visual Art or the equivalent. Artists will create a portfolio of creative, technical, and thematic work during their time in the studio. An advanced study in studio skills, art history and visual literacy will allow students to explore a wide variety of materials and subjects. Students will proficiently demonstrate originality and insight in their use of materials and ideas for their artwork. Students will receive their own sketchbook and they will have access to a variety of shared art materials.

# REIVER BELIEFS

**EXCELLENCE**

**SAFETY**

**RESPECT**

**RESPONSIBILITY**

**CITIZENSHIP**



