

École Edward Schreyer School

**2018-2019
course selection**

Senior Years Grade 9 to 12

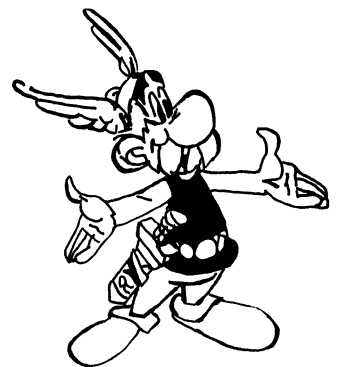


TABLE OF CONTENTS

Introduction.....	4
ÉESS English Diploma Requirements.....	5
ÉESS French Immersion Diploma Requirements.....	6
Senior Years Course Identification	7
Notes.....	8
Sample Course Selection Forms.....	9, 10
Arts Education (Drama/Music/Visual Arts)	11, 12, 13
Basic French.....	14
Applied Commerce Education	15, 16
Career Education.....	17
Courses Created for ÉESS.....	18
English.....	19, 20
French Immersion Courses.....	21, 22, 23, 24
Home Economics.....	25
Industrial Arts.....	26
Mathematics.....	27, 28
Media, Graphic Design & Technology.....	29, 30
Physical Education/Health Education	31
Science	32, 33
Social Studies.....	34, 35
Arts & Technology Centre 2017/2018.....	36, 37, 38, 39

INTRODUCTION

École Edward Schreyer School is a Grade 6 to Grade 12 school within the Sunrise School Division. There are approximately 680 students and 90 dedicated staff.

To plan for a successful year, the school begins the process of course selections in February. The following staff may be useful in answering any questions that you may have regarding your child's choices for the 2018-2019 school year:

Mr. Pat Ilchena – Principal
Mr. Anthony Penner – Assistant Principal
Ms. Carol Blocker – Assistant Principal
Mrs. Brett Both – Guidance Counsellor
Mrs. Sheila Paseska – Guidance Counsellor
Mr. John Guenther – Resource Teacher
Mrs. Brenda Severinsen – Resource Teacher
Mrs. Heather Hein – Resource Teacher
Ms. Kelly Otto – Resource Teacher
Mrs. Joanna Kaptein – Resource Teacher
Mr. Shayne Fredborg – Resource Teacher

The above listed people can all be reached by phone at 204-268-2423 or by e-mail using their first initial and last name @sunrisesd.ca.

For example, you would use pilchena@sunrisesd.ca to reach Mr. Ilchena.

The following dates represent important deadlines for course selections:

- February 20th:** Classroom presentations to all students begin
- Feb 27th:** 6:00 PM
Parent Information Night for all interested parents
Will focus mainly on the transition from Grade 8 to 9 and 30 credit high school diploma requirements
- March 1st:** Registration forms go home with students
- March 5th:** Signed registration forms are collected
- March 15th:** Final date to submit signed registration forms
Students who submit registration forms by this date will be given preference to spaces in overloaded courses

ÉESS ENGLISH DIPLOMA REQUIREMENTS

GRADE 9

Compulsory Courses	Optional Courses
English Language Arts 10F	
Reading is Thinking 11G	
Mathematics 10F	
Science 10F	
Canada in the Contemporary World 10F	
Physical Education/Health Education 10F	

GRADE 10

Compulsory Courses	Optional Courses
English Language Arts 20F	
<u>Mathematics</u> Introduction to Applied & Pre-Calculus Math 20S OR Essential Mathematics 20S	
Science 20F	
Geography Issues of the 21 st Century 20F	
Physical Education/Health Education 20F	

GRADE 11

Compulsory Courses	Optional Courses
<u>English</u> ELA: Comprehensive Focus 30S OR ELA: Transactional Focus 30S	
<u>Mathematics</u> Pre-Calculus Mathematics 30S OR Applied Mathematics 30S OR Essential Mathematics 30S	
History of Canada 30F	
Physical Education/Health Education 30F	

GRADE 12

Compulsory Courses	Optional Courses (40 level)
<u>English</u> ELA: Comprehensive Focus 40S OR ELA: Literary Focus 40S OR ELA: Transactional Focus 40S	
<u>Mathematics</u> Pre-Calculus Mathematics 40S OR Applied Mathematics 40S OR Essential Mathematics 40S	
Physical Education/Health Education 40F	

A TOTAL OF 30 CREDITS IS REQUIRED FOR GRADUATION.
*Students may choose to take additional Optional Courses in
 Grade 11 & 12 to graduate with more than 30 credits.*

ÉESS FRENCH IMMERSION DIPLOMA REQUIREMENTS

GRADE 9

Compulsory Courses	Optional Courses
English Language Arts 10F	
Français Langue Seconde-Immersion 10F	
Mathématiques 10F	
Science de la Nature 10F	
Le Canada dans le Monde Contemporain 10F	French Immersion Credits Obtained: _____
Physical Education/Health Education 10F	

GRADE 10

Compulsory Courses	Optional Courses
English Language Arts 20F	
Français Langue Seconde-Immersion 20F	
<u>Mathematics</u> Introduction aux Mathématiques Appliquées et Pre-Calcul 20S OR Mathématiques au Quotidien 20S	
Science de la Nature 20F	
Les Enjeux Géographiques du 21^e Siècle 20F	French Immersion Credits Obtained: _____
Physical Education/Health Education 20F	

GRADE 11

Compulsory Courses	Optional Courses
<u>English</u> ELA: Comprehensive Focus 30S OR ELA: Transactional Focus 30S	
Français Langue Seconde-Immersion et Com 30S	
<u>Mathematics</u> Mathématiques: Pré-Calcul 30S OR Applied Mathematics 30S OR Essential Mathematics 30S	French Immersion Credits Obtained: _____
Histoire du Canada 30F	
Physical Education/Health Education 30F	

GRADE 12

Compulsory Courses	Optional Courses (40 level)
<u>English</u> ELA: Comprehensive Focus 40S OR ELA: Literary Focus 40S OR ELA: Transactional Focus 40S	
Français Langue Seconde-Immersion et Com 40S	French Immersion Credits Obtained: _____
<u>Mathematics</u> Pre-Calculus Mathematics 40S OR Applied Mathematics 40S OR Essential Mathematics 40S	
Physical Education/Health Education 40F	

A TOTAL OF 14 CREDITS EN FRANÇAIS IS REQUIRED FOR AN IMMERSION DIPLOMA.

A TOTAL OF 30 CREDITS IS REQUIRED FOR GRADUATION.

Students may choose to take additional Optional Courses in Grade 11 & 12 to graduate with more than 30 credits.

SENIOR YEARS COURSE IDENTIFICATION

Course Numbering

The present course numbering system comprises a 3-character, alpha-numeric code. The first and second characters are numerals, while the third is a letter.

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

Second Character

- 0 developed by Manitoba Education for 1 credit
- 5 developed by Manitoba Education for ½ credit
- 1 developed by schools or school divisions and registered by Manitoba Education
- 2 externally developed by an educational authority and, in the case of a dual credit, a post-secondary institution (e.g., university, out-of-country)

Third Character

- G General
- F Foundation
- S Specialized
- M Modified
- U University-based

Senior Years Courses Titles

Course Name

Course Code

Provincial Department Code (referenced on transcripts)

(Example: Science 10F (SC110F) (0120))

-----SAMPLE - English Program-----



École Edward Schreyer School

English Program

Senior Student Registration 2018-2019

Name: _____ Present Grade: _____

<u>Grade 9</u>	<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>
Compulsory Courses			
___ English 10F (0001) ___ Reading is Thinking 10S (0789) ___ Mathematics 10F (0080) ___ Science 10F (0120) ___ Canada in the C.W. 10F (0101) ___ Physical Education 10F (0169)	___ English 20F (0001) ___ Intro. Applied Math/Pre-Cal 20S (3905) ___ Essential Mathematics 20S (3000) ___ Science 20F (0120) ___ Geography 20F (1180) ___ Physical Education 20F (0169)	___ Comprehensive English 30S (0092) ___ Transactional English 30S (0094) ___ Pre-Calculus Math 30S (3939) ___ Applied Math 30S (3903) ___ Essential Mathematics 30S (3000) ___ History 30F (0105) ___ Physical Education 30F (0169)	___ Comprehensive English 40S (0092) ___ Literary English 40S (0093) ___ Transactional English 40S (0094) ___ Pre-Calculus Math 40S (3939) ___ Applied Math 40S (3903) ___ Essential Mathematics 40S (3000) ___ Physical Education 40F (0169)
Optional Courses			
Please select and number at least 6 in order of preference	Please select and number at least 8 in order of preference	Please select and number at least 5 in order of preference	Please select and number at least 5 in order of preference
___ Visual Arts 10S (0274) ___ French 10F (0403) ___ Business Innovations 10S (0315) ___ Technology I 15F (0217) & Technology II 15F (0218) ___ Life/Work Exploration 10S (0097) ___ Curling Academy 11G (9916) ___ Home Economics 10G (0482) ___ Woods 15G (7991) & Metals 15G (7981) ___ Orchestra 10S (0272)	___ Visual Arts 20S (0274) ___ French 20F (0403) ___ Print Communications 25S (0222) & Advanced Keyboarding 25S (1270) ___ Life/Work Planning 20S (0098) ___ Curling Academy 21G (9916) ___ Drama 20S (0239) ___ Clothing/Housing/Design 20G (1109) ___ Family Studies 20F (1118) ___ Woods Technology 20G (7990) ___ Metals Technology 20G (7980) ___ Orchestra 20S (0272) ___ Draft Design Tech. 20G (7953) ___ American History 20G (0481) ___ Foods & Nutrition 20G (1119) ___ Creative Promotions 20S (0317)	___ Visual Arts 30S (0274) ___ French 30S (0403) ___ Data Collection & Analysis 35S (0235) & Relational Databases 35S (0221) ___ Accounting Essentials 30S (0309) ___ Computer Science 30S (0280) ___ Web Design 35S (0234) & Interactive Websites 35S (0225) ___ Curling Academy 31G (9916) ___ Drama 30S (0239) ___ Clothing/Housing/Des. 30G (1109) ___ Foods & Nutrition 30G (1119) ___ Metals Technology 30G (7980) ___ Orchestra 30S (0272) ___ Broadcast Media 35S (0231) & Interactive Media 35S (0237) ___ Physics 30S (0123) ___ Chemistry 30S (0122) ___ Biology 30S (0124) ___ Marine Science 31G (9938) ___ Digital Pictures 25S (0226) & Desktop Publishing 35S (0223) ___ Life/Work Building 30S (0099)	___ Visual Arts 40S (0274) ___ French 40S (0403) ___ Accounting Systems 40S (0310) ___ Business Management 40S (0316) ___ Applied Bus. Technologies 40S (0311) ___ Computer Science 40S (0280) ___ Law 40S (0580) ___ Life/Work Transition 40S (0100) ___ Apprentice. Prog. 40S (9801 - 9808) ___ Psychology 40S (1010) ___ Drama 40S (0239) ___ Family Studies 40S (1118) ___ Woods Technology 40S (7990) ___ Construction Tech. 40S (7994) ___ Metals Technology 40S (7980) ___ Intro to Calculus 45S (3940) & Advanced Math 45S (3900) ___ Orchestra 40S (0272) ___ Physics 40S (0123) ___ Chemistry 40S (0122) ___ Biology 40S (0124) ___ Interdisciplinary Topics in Science 40S (0140) ___ Global Issues 40S (1128) ___ Western Civilization 40S (1136) ___ Aboriginal Studies 40S (0103)

Please ensure that both the student's first and last name are printed clearly at the top of the form.

IMPORTANT INFORMATION

Forms will be given out in homerooms on Thurs., March 1st and must be returned by Thurs., March 15th.

_____ I plan to attend school in Selkirk next year and would like to attend the information sessions offered.

Student Signature

Parent Signature

Date

-----SAMPLE - Immersion Program-----



École Edward Schreyer School

Immersion Program

Senior Student Registration 2018-2019

Name: _____ Present Grade: _____

<u>Grade 9</u>	<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>
Compulsory Courses			
<input type="checkbox"/> English 10F(0001) <input type="checkbox"/> Français 10F (0401) <input type="checkbox"/> Mathématiques 10F (0080) <input type="checkbox"/> Science de la Nature 10F (0120) <input type="checkbox"/> Canada dans le M. C. 10F (0101) <input type="checkbox"/> Physical Education 10F (0169)	<input type="checkbox"/> English 20F (0001) <input type="checkbox"/> Français 20F (0401) <input type="checkbox"/> Mathé au Quotidien 20S (3000) <input type="checkbox"/> Int. aux Mathé App.& PreCal 20S (3905) <input type="checkbox"/> Science de la Nature 20F (0120) <input type="checkbox"/> Géographiques 20F (1180) <input type="checkbox"/> Physical Education 20F (0169)	<input type="checkbox"/> Comprehensive Eng. 30S (0092) <input type="checkbox"/> Transactional Eng. 30S (0094) <input type="checkbox"/> Français 30S (0432) <input type="checkbox"/> Pré-Calcul Math 30S (3939) <input type="checkbox"/> Applied Math 30S (3903) <input type="checkbox"/> Essential Math 30S (3000) <input type="checkbox"/> Histoire 30F (0105) <input type="checkbox"/> Physical Education 30F (0169)	<input type="checkbox"/> Comprehensive Eng. 40S (0092) <input type="checkbox"/> Literary English 40S (0093) <input type="checkbox"/> Transactional Eng. 40S (0094) <input type="checkbox"/> Français 40S (0432) <input type="checkbox"/> Pre-Calculus Math 40S (3939) <input type="checkbox"/> Applied Math 40S (3903) <input type="checkbox"/> Essential Math 40S (3000) <input type="checkbox"/> Physical Education 40F (0169)
Optional Courses			
<i>Please select and number at least 6 in order of preference</i>	<i>Please select and number at least 7 in order of preference</i>	<i>Please select and number at least 4 in order of preference</i>	<i>Please select and number at least 5 in order of preference</i>
<input type="checkbox"/> Visual Arts 10S (0274) <input type="checkbox"/> Business Innovations 10S (0315) <input type="checkbox"/> Technology I 15F (0217) & Technology II 15F (0218) <input type="checkbox"/> Life/Work Exploration 10S (0097) <input type="checkbox"/> Curling Academy 11G (9916) <input type="checkbox"/> Home Economics 10G (0482) <input type="checkbox"/> Woods 15G (7991) & Metals 15G (7981) <input type="checkbox"/> Orchestra 10S (0272) <input type="checkbox"/> Reading is Thinking 10S (0789) <input type="checkbox"/> Arts Visuels 10S (0274)	<input type="checkbox"/> Visual Arts 20S (0274) <input type="checkbox"/> Print Communications 25S (0222) & Advanced Keyboarding 25S (1270) <input type="checkbox"/> Life/Work Exploration 20S (0098) <input type="checkbox"/> Curling Academy 21G (9916) <input type="checkbox"/> Drama 20S (0239) <input type="checkbox"/> Clothing/Housing/ Design 20G (1109) <input type="checkbox"/> Family Studies 20F (1118) <input type="checkbox"/> Woods Technology 20G (7990) <input type="checkbox"/> Metals Technology 20G (7980) <input type="checkbox"/> Orchestra 20S (0272) <input type="checkbox"/> Draft Design Tech. 20G (7953) <input type="checkbox"/> American History 20G (0481) <input type="checkbox"/> Foods & Nutrition 20G (1119) <input type="checkbox"/> Arts Visuels 20S(0274) <input type="checkbox"/> Creative Promotions 20S (0317)	<input type="checkbox"/> Visual Arts 30S (0274) <input type="checkbox"/> Data Collection & Analysis 35S (0235) & Relational Databases 35S (0221) <input type="checkbox"/> Accounting Essentials 30S (0309) <input type="checkbox"/> Computer Science 30S (0280) <input type="checkbox"/> Web Design 35S (0234) & Interactive Websites 35S (0225) <input type="checkbox"/> Life/Work Building 30S (0099) <input type="checkbox"/> Drama 30S (0239) <input type="checkbox"/> Clothing/Housing/ Design 30G (1109) <input type="checkbox"/> Foods & Nutrition 30G (1119) <input type="checkbox"/> Curling Academy 31G (9916) <input type="checkbox"/> Metals Technology 30G (7980) <input type="checkbox"/> Orchestra 30S (0272) <input type="checkbox"/> Broadcast Media 35S (0231) & Interactive Media 35S (0237) <input type="checkbox"/> Digital Pictures 25S (0226) Desktop Publishing 35S (0223) <input type="checkbox"/> Physics 30S (0123) <input type="checkbox"/> Chemistry 30S (0122) <input type="checkbox"/> Biologie 30S (0124) <input type="checkbox"/> Marine Science 31G (9938) <input type="checkbox"/> Arts Visuels 30S (0274) <input type="checkbox"/> Vie-Travail: Organisation 30S (0099)	<input type="checkbox"/> Visual Arts 40S (0274) <input type="checkbox"/> Accounting Systems 40S (0310) <input type="checkbox"/> Business Management 40S (0316) <input type="checkbox"/> Applied Bus. Tech. 40S (0311) <input type="checkbox"/> Computer Science 40S (0280) <input type="checkbox"/> Law 40S (0580) <input type="checkbox"/> Life/Work Transition 40S (0100) <input type="checkbox"/> Apprentice. Prog. 40S (9801 - 9808) <input type="checkbox"/> Psychology 40S (1010) <input type="checkbox"/> Drama 40S (0239) <input type="checkbox"/> Family Studies 40S (1118) <input type="checkbox"/> Woods Technology 40S (7990) <input type="checkbox"/> Construction Tech. 40S (7994) <input type="checkbox"/> Metals Technology 40S (7980) <input type="checkbox"/> Intro to Calculus 45S (3940) & Advanced Math 45S (3900) <input type="checkbox"/> Orchestra 40S (0272) <input type="checkbox"/> Physics 40S (0123) <input type="checkbox"/> Chemistry 40S (0122) <input type="checkbox"/> Biology 40S (0124) <input type="checkbox"/> Interdisciplinary Topics in Science 40S (0140) <input type="checkbox"/> Global Issues 40S (1128) <input type="checkbox"/> Western Civilization 40S (1136) <input type="checkbox"/> Aboriginal Studies 40S (0103) <input type="checkbox"/> Arts Visuels 40S (0274) <input type="checkbox"/> Psychologie 40S (1010) <input type="checkbox"/> Vie-Travail: Transition 40S (0100) <input type="checkbox"/> Civ. Occidentale 40S (1136) <input type="checkbox"/> Citoyen. et Durabilité 40S (1128)

Please ensure that both the student's first and last name are printed clearly at the top of the form.

IMPORTANT INFORMATION

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_____ I plan to attend school in Selkirk next year and would like to attend the information sessions offered.

Student Signature

Parent Signature

Date

ARTS EDUCATION

DRAMA

Drama 1A: General 20S (DRM20S) (0239)

This introductory course aims to develop student awareness of the drama elements to enable fuller participation in and a greater understanding of the drama experience.

Promote and Develop

Imagination	Self-expression
Creativity	Analysis and synthesis
Co-operation	Self-confidence
Self-discipline	

Elements

Relaxing/Energizing	Acting
Concentration	The Group
Content	Talking, voice, speech
Seeing, listening, movement	

Drama 1A: General 30S (DRM30S) (0239) & Drama 1A: General 40S (DRM40S) (0239)

These dramatic arts courses are organized around a set of drama elements. The course will consist of teacher-directed or student-directed classroom exercises designed to create awareness of these elements. Drama elements explored are relaxing, content, seeing, listening, movement, voice/speech, group dynamics, acting design, and sound. This is a participatory class where students are expected to be involved in all activities.

MUSIC

Music: Orchestra 10S (MOR10S) (0272)

Students have the opportunity to begin or continue learning music in a full orchestra capacity. New students are welcome without prior orchestral instrument experience. Senior Orchestra performs several times each year and typically participates in one music festival. Student attendance and participation is expected at all concerts and performances.

Orchestra 20S (MOR20S) (0272)

Students have the opportunity to continue learning music in a full orchestra capacity. Students explore all facets of orchestral repertoire and relevant history, theory, and performance practices. Senior Orchestra performs several times each year and typically participates in one music festival. Student attendance and participation is expected at all concerts and performances.

Orchestra 30S (MOR30S) (0272)

Students have the opportunity to continue learning music in a full orchestra capacity. Students explore all facets of orchestral repertoire and relevant history, theory, and performance practices. Senior Orchestra performs several times each year and typically participates in one music festival. Student attendance and participation is expected at all concerts and performances.

Orchestra 40S (MOR40S) (0272)

Students have the opportunity to continue learning music in a full orchestra capacity. Students explore all facets of orchestral repertoire and relevant history, theory, and performance practices. Senior Orchestra performs several times each year and typically participates in one music festival. Student attendance and participation is expected at all concerts and performances.

- Prerequisite: Orchestra 10G & 20G or 30S

VISUAL ARTS

Visual Arts 1A: General 10S (VAR10S) (0274)

This course is designed to introduce and develop creative and art related skills, media techniques and concepts that will guide students towards successful creative self-expression and that will build a foundation for further creative exploration at the 20F level. The four curricular areas outlined in the provincial art curriculum will act as a framework for the course. Students will develop and understanding of the elements and principles of art and design as they complete both individual and group projects. Course work will consist of both in class assignments and independently complete sketchbook work. At the 10F level students will be introduced to some art history, appreciation, as well as approaches to art criticism.

Visual Arts 1A: General 20S (VAR20S) (0274)

This course will build on skills and understandings introduced at the 10F level. The course is designed to develop creative and art related skills, media techniques and concepts that will guide students towards successful creative self-expression and that will build a foundation for further creative exploration at the 30S level. The four curricular areas outlined in the provincial art curriculum will act as a framework for the course. Students will develop and understanding of the elements and principles of art and design as they complete both individual and group projects. Course work will consist of both in class assignments and independently complete sketchbook work. At the 20F level students will develop an understanding art history, and apply approaches to art criticism to both their own work and the work of others.

Visual Arts 1A: General 30S (VAR30S) (0274)

This course is designed to enhance, extend and refine the learning achieved at the 20F level. Through the continued exploration of the elements and principles of art and design students will be guided towards successful creative self-expression. The course will build a foundation for further creative exploration at the 40S level. The four curricular areas outlined in the provincial art curriculum will act as a framework for the course. The course will create opportunities for students to engage in more individualized art processes that will build independent creative decision-making skills. Students will begin engaging in independent experimentation with art media and will learn to develop personally relevant artworks that match ideas to media. The study of art history and criticism will take on a higher level of importance and students will be encouraged to talk and write about their own artwork independently and with others.

Visual Arts 1A: General 40S (VAR40S) (0274)

This course is designed to develop, extend and refine the learning achieved at the 30S level. Through the continued exploration of the elements and principles of art and design students will be guided towards successful creative self-expression. Students may wish to regard the work completed in this course as a portfolio to be used for future university, technical school or employment references. If this is the case the student should make the desire known, and guidance will be provided. The four curricular areas outlined in the provincial art curriculum will act as a framework for the course. At the 40S level assignments will be student focused, developing individualized art processes that will continue to build independent creative decision-making skills.

Students will engage in independent experimentation with art media and learn to develop personally relevant artworks that match ideas to media. The teacher will guide students through the creative process providing guidance and direction when needed. At the 40S level students will be responsible for a critical essay or art history project. Students will also be expected to talk and write about their own artwork independently and with others.

BASIC FRENCH

French 10F (FRE10F) (0403)

This course emphasizes the communicative approach in language learning. The skills of listening, speaking, reading and writing are practiced in realistic and practical situations.

French 20F (FRE20F) (0403)

This course emphasizes the four basic skills: listening, speaking, reading and writing. It is intended to develop new structures and vocabulary, to expose students to a variety of supplementary reading materials and to make use of the French language for communication purposes. Topics covered include oral discussions on reading material, oral and written drills on grammatical structures, listening comprehension, writing sentences, paragraphs and oral presentations.

French 30S (FRE30S) (0403)

This course continues to emphasize the four basic skills: listening, speaking, reading and writing. It is intended to develop new structures and vocabulary, to introduce students to more diverse forms of French literature and to make use of the French language for communication purposes. Topics covered include oral discussions on reading material, oral and written drills on grammatical structures, listening comprehension, writing sentences, paragraphs and oral presentations.

French 40S (FRE40S) (0403)

This course is designed to enhance oral fluency in class discussions as well as reading skills and vocabulary by reading more complex materials from French authors. Writing skills are enhanced by writing compositions, articles, resumes and short essays. Topics covered include oral and written discussions on reading material, extensive listening comprehension and oral presentation of written paragraphs and essays.

APPLIED COMMERCE EDUCATION

The Province has restructured Business Education to Applied Commerce Education (ACE) with a number of course changes. Students will have the opportunity to register for the new ACE courses listed below. We are currently not offering enough courses to qualify for an Applied Commerce Education Diploma.

Business Innovations 10S (BUI10S) (0315)

Business Innovations is an introductory course that allows students to sample the various strands within the applied commerce education program. The course offers students the opportunity to explore commerce-related topics, such as economics, entrepreneurship, business, marketing, technology, and finance. Throughout the course, students will apply the concepts and strategies they learn to a variety of creative business projects or simulations. It is the suggested introduction to all of the other courses offered in the applied commerce education subject area.

Creative Promotions 20S (CRP20S) (0317)

Creative Promotions helps students develop an understanding of promotional communication from both a theoretical and a practical approach. The course focuses on advertising strategies, direct marketing, personal selling, sales promotions, and public relations. Students will apply these concepts and their creativity to design a variety of promotional and advertising material.

Creative Promotions is designed for students who are looking to expand their business knowledge regarding communicating effectively and creatively.

Accounting Essentials 30S (ACE30S) (0309)

Accounting Essentials helps students gain an understanding of basic accounting. With an emphasis on accounting for a service business, students will apply their knowledge and skills to complete the stages of the accounting cycle. Accounting Essentials provides the fundamentals of accounting and is a good choice for students who plan to further their finance studies in Accounting Systems (0310). Students interested in pursuing post-secondary studies in any business discipline will benefit considerably by completing this course.

Accounting Systems 40S (ACS40S) (0310)

Accounting Systems is an extension of Accounting Essentials (0309). It includes an introduction to financial analysis and corporate accounting. With an emphasis on accounting for a merchandising business, students will apply their knowledge and skills to complete the stages of the accounting cycle. The skills acquired in this course are not only useful when pursuing a career in business or accounting, but essential for everyday life.

Applied Business Technologies 40S (ABT40S) (0311)

Applied Business Technologies focuses on integrating advanced software features commonly used in business. This course is designed for students interested in learning about collaboration, digital communication, and customization of presentation software to create, edit, and manage business documents, using advanced features of word processing, spreadsheet, and database applications. Topics also include multimedia elements such as creating and manipulating images, graphics, videos, and animations.

Applied Business Technologies is designed to improve students' transferable skills, which will increase their success in the business world.

Business Management 40S (BMA40S) (0316)

Business Management focuses on developing skills in planning, leading, organizing, controlling, and staffing. Students will study various management styles and participate in activities related to human resources, inventory, finance, and project management. This course is designed for students interested in furthering their knowledge of management strategies used in various settings and furthering their knowledge of business ownership.

CAREER EDUCATION

Each course is divided into five themes: (1) Personal Management, (2) Career Exploration, (3) Learning & Planning, (4) Job Seeking & Job Maintenance and (5) Career & Community Experiences

Life/Work Exploration 10S (LWE10S) (0097)

This program places a greater emphasis on personal introspection and career exploration. It provides students with an overview of career development outcomes with emphasis on building a positive self-esteem, exploring self-assessment and locating work information. It is designed to connect school learning with workplace and labour market realities and to help students acquire and apply knowledge and skills to manage and make appropriate decisions for life, learning and work in order to be competitive in today's economy.

Life/Work Planning 20S (LWP20S) (0098)

This program places a greater emphasis on student outcomes related to communication skills, work information, work trends, self-assessment, matching personal skills to occupations, stereotyping and discrimination in the workplace, and work-search tools. Prior learning outcomes are revisited and expanded upon to help students discover and learn how to respond to change and personal growth as they pass through the various stages of their lives for success in work, learning and life.

Life/Work Building 30S (LWB30S) (0099)

Career Development programs provide student learning outcomes for a successful transition into life/work experiences for the future. They are designed to connect school learning with workplace and labour market realities. All Career Development courses from grade 9 through to grade 12 help students acquire and apply knowledge and skills to manage and make appropriate decisions for life, learning, work, and post-secondary education to be competitive in today's economy. This course is primarily delivered in a workplace setting.

Life/Work Transitioning 40S (LWT40S) (0100)

Career Development programs provide student learning outcomes for a successful transition into life/work experiences for the future. They are designed to connect school learning with workplace and labour market realities. All Career Development courses from grade 9 through to grade 12 help students acquire and apply knowledge and skills to manage and make appropriate decisions for life, learning, work, and post-secondary education to be competitive in today's economy. This course is primarily delivered in a workplace setting.

High School Apprenticeship Program 40S (APP140S to APP840S) (9801 to 9808)

Start a career in Apprenticeship training while in high school. The program provides an opportunity for students to explore trades in relevant settings while completing their high school education. It combines necessary high school credentials for graduation with paid on-the-job training in over 50 different trades.

The benefits of the program include earning 8 supplemental credits for graduation, getting paid minimum wage plus 10%, getting hands on experience and having job hours count towards full time apprenticeship training after high school. Use the skills you learn for advanced employment opportunities. Students in the Apprenticeship program must be in high school, be at least 16 years of age and must find a qualified, insured employer willing to train them as an apprentice.

COURSES CREATED FOR ÉESS

Curling Academy 11G (CUR11G) (9916)

This course introduces students to one of Canada's best loved winter sports. On ice sessions focus on the fundamental skills of delivery, brushing, basic shot making and strategy. Off-ice sessions include topics on the history of curling, rules & etiquette of the game as well as an introduction to physical conditioning for the sport of curling. New and experienced curlers will benefit from the knowledge and ice time provided by this course. In addition to being a lot of fun, curling teaches important values like co-operation, teamwork and fair-play.

- **Note:** There is a nominal fee.

Curling Academy 21G (CUR21G) (9916)

Curling Academy 21G builds on the introduction to the game and basic skills of curling from Curling Academy 11G. Off-ice sessions focus on curling specific fitness, the use of statistics in curling, ice making as well as curling events and personalities. On ice sessions focus on the detection and correction of faults in the student's delivery technique, timing techniques as well as advanced shot making and strategies. It will provide an opportunity for students to further develop curling skills in a more competitive environment. In addition, students will have an opportunity to develop leadership skills as they share their knowledge with other students.

- **Prerequisite:** *Students must have successfully completed Curling Academy 11G with a final mark of 60% or higher.*
 - **Note:** There is a nominal fee.

Curling Academy 31G (CUR31G) (9916)

Curling Academy 31G provides students with the opportunity to develop leadership skills both on and off the ice. Off-ice sessions will include individualized curling specific fitness, mental preparation, an introduction to officiating and coaching theory. Students will also have the opportunity to demonstrate leadership skills through the organization of curling related activities such as leagues, clinics and bonspiels. On ice sessions continue to focus on individual skill development with the aid of video analysis as well as advanced brushing techniques, shot making, strategy, and team development.

- **Prerequisite:** *Students must have successfully completed Curling Academy 21G with a final mark of 60% or higher.*
 - **Note:** There is a nominal fee.

ENGLISH

English Language Arts 10F (ELA10F) (0001)

This course provides an overview of communication in English Language Arts, with emphasis on writing structures, grammar, novel studies, poetry, and short stories units. The goals of the Grade 9 course are to promote the student's proficiency and enjoyment in using language, to foster student growth through literature, and to increase the student's knowledge of language.

Reading is Thinking 10S (REA10S) (0789)

This course is a school-initiated course that is compulsory for all Grade 9 students. It is designed to focus on study skills, comprehension strategies and complements the regular English program. It will also focus on increased literacy skills across the curriculum to enhance all subject area studies.

English Language Arts 20F (ELA20F) (0001)

Students will explore language study using the following six strands: reading, writing, listening, speaking, viewing and representing. The following outcomes are expected - students will:

- explore thoughts ideas, feelings and experiences
- comprehend and respond personally and critically to oral, literary and media texts
- manage ideas and information
- enhance the clarity and artistry of communication
- learn to work with others (study groups)

The above will include writing styles and techniques, reading and listening response materials, vocabulary development and oral presentations.

English 30S

ELA: Comprehensive Focus 30S (ENC30S) (0092)

This course is designed to help students develop a range of literacy skills that deepen their engagement with and appreciation of a variety of texts. Emphasis will be placed on the development of critical thinking skills and the ability to analyze the work of others with students responding in both oral and written form. In general, the course will consist of vocabulary development, essay writing, analysis of style, novel studies, a short stories unit and a Shakespearean play.

ELA: Transactional Focus 30S (ENT30S) (0094)

This course is focused on knowledge, skills and strategies for practical communication. Students will use texts such as high interest novels, instructional text, handbooks, etc. to produce editorials, memos, letters, debates, interviews, research projects and will develop public speaking skills.

English 40S

ELA: Comprehensive Focus 40S (ENC40S) (0092)

This course provides opportunities to study a range of pragmatic and aesthetic texts to persuade, analyze, foster understanding and empathy, reflect culture and bring enjoyment. A proficiency in both oral and written language will be reinforced. A plethora of essay forms will be studied, culminating in students producing their own texts wherein they express their points of view and convey their experiences.

ELA: Literary Focus 40S (ENL40S) (0093)

This course emphasizes the aesthetic uses of language to convey experiences, ideas and perspectives. This involves aesthetic texts while exploring related pragmatic texts. An appreciation for informal and formal discourse, ranging from figurative language and experimental poetry to more conventional forms such as sonnets, monologues, biographies and film reviews will be stressed.

ELA: Transactional Focus 40S (ENT40S) (0094)

This course is a meaningful and effective language choice for the world of work. Transactional emphasizes the pragmatic forms such as editorials, memos, letters, debates, interviews and research projects. The usage of clear, concise, positive, and you-centered language is promoted to enrich communication mainly for pragmatic purposes. Proficiency in public speaking is an integral component of the course.

All students enrolled in a 40S English Classes are required to write one Provincial Standards Exam.

FRENCH IMMERSION COURSES

Arts Visuels 10S – Immersion (AVI10S) (00274)

This course is designed to introduce and develop creative and art related skills, media techniques and concepts that will guide students towards successful creative self-expression and that will build a foundation for further creative exploration at the 20F level. The four curricular areas outlined in the provincial art curriculum will act as a framework for the course. Students will develop and understanding of the elements and principles of art and design as they complete both individual and group projects. Course work will consist of both in class assignments and independently complete sketchbook work. At the 10F level students will be introduced to some art history, appreciation as well as approaches to art criticism.

Français Langue Seconde - Immersion 10F (FRA10F) (0401)

The goals of the Grade 9 course are to promote the student's proficiency and enjoyment in using language, to foster the student's growth through literature and to increase the student's knowledge of French. Positive and active student participation in French is required.

Le Canada dans le Monde Contemporain 10F (CMC10F) (0101)

The main focus of this course is Canadian Studies. Some of the topics covered are: Canadian Identity and Culture, Geography and Economy, Government and Law, and Canada and the World. Past and present issues are discussed on the various topics.

Mathématiques 10F (MAQ10F) (0080)

This course covers: Statistics, Polynomials, Spatial Geometry, Probability, Powers and Exponents, Trigonometry, Linear Relations, and Mathematical Reasoning.

Science de la Nature 10F (SCN10F) (0120)

The course is divided into four major areas: Biology (*reproduction*); Chemistry (*Atoms and Elements*); Physics (*Nature of Electricity*); Astronomy (*Exploration of the Universe*).

Arts Visuels 20S – Immersion (AVI20S) (0274)

This course will build on skills and understandings introduced at the 10F level. The course is designed to develop creative and art related skills, media techniques and concepts that will guide students towards successful creative self-expression and that will build a foundation for further creative exploration at the 30S level. The four curricular areas outlined in the provincial art curriculum will act as a framework for the course. Students will develop and understanding of the elements and principles of art and design as they complete both individual and group projects. Course work will consist of both in class assignments and independently complete sketchbook work. At the 20F level students will develop an understanding art history, and apply approaches to art criticism to both their own work and the work of others.

Français Langue Seconde - Immersion 20F (FRA20F) (0401)

A full credit, French Language Arts course where speaking, listening, writing, reading and viewing are all studied throughout the course. Positive active student participation in French is mandatory.

Introduction aux Mathématiques Appliquées & Pre-Calcul (MPA20S) (3905)

This course deals with data processing, coordinate geometry, linear models, functions, measurement, trigonometry, data management, polynomials, factoring, analytic

geometry, exponents and radicals, rational expressions, equations, functions, statistics and probability, variation and sequences. It is strongly recommended that any student with a mark below 75% in Math 10F take both Essentials Math 20S as well as this course.

Les Enjeux Géographiques du 21^e Siècle 20F (GEI20F) (1180)

Geography is a way of studying, analyzing and developing an understanding of the interactions of people with their many varied environments. This course examines various regions of North America including the Agricultural Interior, the North, the Western Cordillera, the Atlantic and the Industrial Heartland. The climate, physical features, economic activities and issues of each region are used as the backdrop to promoting a healthy understanding of people and the environment.

Mathématiques au Quotidien 20S (MAQ20S) (3000)

Essentials Math 20S topics are as follows: Problem Analysis, Personal Finance, Consumer Decisions, Measurement, 2-D Geometry, Transformations, Constructional Design, Trigonometry.

Science de la Nature 20F (SCN20F) (0120)

The course is divided into four major areas: Biology (*Dynamics of Ecosystems*); Chemistry (*Chemistry in Action*); Physics (*In Motion*); Meteorology (*Weather Dynamics*).

Arts Visuels 30S – Immersion (AVI30S) (0274)

This course is designed to enhance, extend and refine the learning achieved at the 20F level. Through the continued exploration of the elements and principles of art and design students will be guided towards successful creative self-expression. The course will build a foundation for further creative exploration at the 40S level. The four curricular areas outlined in the provincial art curriculum will act as a framework for the course. The course will create opportunities for students to engage in more individualized art processes that will build independent creative decision-making skills. Students will begin engaging in independent experimentation with art media and will learn to develop personally relevant artworks that match ideas to media. The study of art history and criticism will take on a higher level of importance and students will be encouraged to talk and write about their own artwork independently and with others.

Biologie 30S (BIOF30S) (0124)

This Biology course is driven by specific learning outcomes arranged around the key themes of *wellness* and *homeostasis*. A number of different body systems are explored while keeping these key themes in mind: Digestion and Nutrition, Transportation and Respiration, Excretion and Waste Management, Protection and Control as well as Wellness and Homeostatic changes. Hands on Dissections are a part of this course.

Français Langue Seconde – Immersion: Langue et Com 30S (FRA30S) (0432)

The French Language Arts is designed to help students develop a range of literacy skills that deepen their engagement with and appreciation of a variety of texts. In general, the course will consist of vocabulary development, public speaking, essay writing, analysis of style, novel studies, short stories and poetry.

Histoire du Canada 30F (HIE30F) (0105)

This course is a chronological study of Canada's people, culture, and politics. The five units include: The Peopling of Canada, European Colonization, Confederation, Industrialization, and Government.

Mathématiques: Pré-Calcul 30S (MPQ30S) (3939)

The topics of study include Quadratic Functions, Trigonometry, Algebra, Analytic Geometry, Geometry, Consumer Math, Logic/Proof, Functions.

Vie-Travail: Organisation 30S (VTO30S) (0099)

Students put their French language to use in an elementary or middle years classroom doing small group work, cultural activities and by assisting a teacher at ÉBEYS or ÉESS.

Arts Visuels 40S – Immersion (ARV40S) (0116)

This course is designed to develop, extend and refine the learning achieved at the 30S level. Through the continued exploration of the elements and principles of art and design students will be guided towards successful creative self-expression. Students may wish to regard the work completed in this course as a portfolio to be used for future university, technical school or employment references. If this is the case the student should make the desire known, and guidance will be provided. The four curricular areas outlined in the provincial art curriculum will act as a framework for the course. At the 40S level assignments will be student focused, developing individualized art processes that will continue to build independent creative decision-making skills. Students will engage in independent experimentation with art media and learn to develop personally relevant artworks that match ideas to media. The teacher will guide students through the creative process providing guidance and direction when needed. At the 40S level students will be responsible for a critical essay or art history project. Students will also be expected to talk and write about their own artwork independently and with others.

Enjeux Mondiaux: Citoyenneté et Durabilité 40S (ENM40S) (1128)

This course is based on the principles of active democratic citizenship, ecological literacy, critical media literacy, and ethical decision-making. It consolidates learning across the disciplines to empower students as agents of change for a sustainable and equitable future. Students will conduct inquiry into the social, political, environmental, and economic impact of contemporary and emerging global issues. Through their inquiry, students will focus on questions of quality of life locally, nationally and globally. Topics that will be explored will include:

- population
- poverty
- the environment
- world organizations
- terrorism
- human rights
- genocide

As a mandatory component of the course, students plan and implement a community-based action-research project.

Français Langue Seconde-Immersion: Langue et Com 40S (FRA40S) (0432)

The French Language Arts is designed to help students develop a range of literacy skills that deepen their engagement with and appreciation of a variety of texts. Emphasis will be placed on the development of critical thinking skills and the ability to analyze the work of others with students responding in both oral and written form. In general, the course will consist of vocabulary development, public speaking, essay writing, analysis of style, novel studies, short stories and poetry.

Histoire: Civilisation Occidentale 40S (CIV40S) (1136)

This course explores the common characteristics and the major concepts that have played a significant role in developing and shaping Western Civilization. Content explores the legacy of ancient Greece and Rome, Judeo-Christian thought and the medieval religious and social institutions of pre-modern Western Civilization. It also examines the Renaissance, the Reformation and the age of reason and revolution. The course finishes by exploring the major movements and events of the 19th and 20th centuries.

Psychologie 40S (PSE40S) (1010)

Introduction to Psychology explores the topics of sensation/perception, learning, motivation/emotion, interacting with others, states of consciousness, memory, problem solving and the biology underlying behavior. Students will discover how psychology can be used to understand the society in which we live.

Vie-Travail: Transition 40S (VTT40S) (0100)

Students put their French language to use in an elementary or middle years classroom doing small group work, cultural activities and by assisting a teacher at ÉBEYS or ÉESS.

HOME ECONOMICS

Home Economics 10G (HOM10G) (0482)

This is a one credit course that covers 3 areas of Home Ec. -Foods and Nutrition, Clothing and Family Studies. Students will be required to sew a project and participate in a foods lab.

Clothing/Housing/Design 20G (CLO20G) (1109)

This course will focus on the factors affecting clothing and textile choices, decision making processes and the elements and principles of design in clothing. Students will learn how to recycle, repair and/or alter a garment. New sewing techniques will be used in a sewing project. Students will be required to participate in a weekly clothing lab.

Family Studies 20F (FAM20F) (1118)

This is a one credit course stressing all aspects of parenting and helping students build skills in decision making, family relations and nurturing children's development. Students are required to take the "Computerized Baby Think It Over Doll" and design a "Quiet Book".

Food and Nutrition 20G (FOO20G) (1119)

Students will develop a greater understanding of the essential nutrients our bodies need and how they impact overall health and wellness. The importance of being an educated consumer and how this affects shopping behaviours will also be examined. Food labs will incorporate nutrition knowledge in the planning and preparation of meals.

Clothing/Housing/Design 30G (CLO30G) (1109)

This course will focus on consumer rights and responsibilities, fiber characteristics and forces that influence the type of shelter and environment you live in. Students will learn how to recycle, repair and/or alter a garment. New sewing techniques will be used in a sewing project.

Students will be required to participate in a weekly clothing lab.

Food and Nutrition 30G (FOO30G) (1119)

This course examines the relationship between food, energy balance and nutrition. Students will evaluate trends and will determine how this impacts food choices. Students will participate in a weekly food lab that will expand their repertoire of food preparation techniques.

Family Studies 40S (FAM40S) (1118)

This is a one credit course that provides students with an opportunity to gain an understanding of present family experiences and improve their capability as family members. Students explore issues such as dating, marriage, divorce, conflict resolution and the balance of work and family. The best way to make decisions about our personal lives is to be more knowledgeable of family experiences.

INDUSTRIAL ARTS

Metalwork Technology 15G (MET15G) (7981)

A Half credit course run in conjunction with Woods 15G. The main focus of this program is processes used in sheet metal fabrication. Topics covered are safety, sheet metal layout, tool identification, cutting, forming and fastening. There will be designated hands on projects, student designed projects and the study of metal working theory.

Woodwork Technology 15G (WOO15G) (7991)

A half credit course, run in conjunction with Metals 15G, which introduces students to wood working theory and practice. Students are assigned projects that require them to use of a variety of wood working machines and technology.

Metalwork Technology 20G (MET20G) (7980)

The main focus of this program is hot metal technology. Topics covered are safety, welding, forging, heat-treating, bench metal, metal forming, metal machining, and metal cutting. Students will build designated hands on projects, student designed projects, gain experience in various welding methods and processes and study metal working theory.

Woodwork Technology 20G (WOO20G) (7990)

A full credit course, Wood 20G introduces students to furniture making. Students will be making small items of furniture using appropriate joints and techniques. The first project will be made with hand tools and encourages patience, the second project allows for use of most of the machines in the shop. CNC machine operation will be taught, and can be incorporated into student projects.

Metalwork Technology 30G (MET30G) (7980)

The main focus of this program is advanced metal technology. Topics covered are safety, advanced welding, advanced machining, project design and drafting, and introduction to mass production.

Construction Technology 40S (CON40S) (7994)

A full credit course, **offered to grade 11 & 12 students**, Construction 40 offers students an understanding of the constructions industry. A largely practical course, students will design and build a kitchen cabinet, create a model building, and work as a group outdoors, to build a wood frame shed.

Metalwork Technology 40S (MET40S) (7980)

The main focus of this program is to use all available metalworking machines and processes to design and build metal projects equivalent to manufacturing industry processes. Students will design, draft, and build the project. They will create a mass production plan and a business plan for each project. The course will also cover various topics related to the metalworking industry.

Woodwork Technology 40S (WOO40S) (7990)

A full credit course, students in Wood 40G design, draw and build their own furniture, including doors and drawers, then look at the changes required for large scale production. This practical course offers an insight into the woodworking trade, and builds on the critical thinking, patience and product quality developed in earlier grades. Students will have the freedom to use the entire woodshop.

MATHEMATICS

Mathematics 10F (MAT10F) (0080)

The topics covered in Math 10F focus on number sense and mathematical reasoning. Specific topics included are Polynomials, Spatial Geometry, Probability, Powers and Exponents, Linear Relations, and Statistics.

Introduction to Applied & Pre-Calculus Math 20S (MAP20S) (3905)

Grade 10 Applied & Pre-Cal Mathematics deals with data processing, coordinate geometry, linear models, functions, measurement, trigonometry, data management, polynomials, factoring, analytic geometry, exponents and radicals, rational expressions, equations, functions, statistics and probability, variation and sequences. It is strongly recommended that any student with a mark below 75% in Math 10F take both Essentials Math 20S as well as this course.

ESSENTIAL MATHEMATICS

Essential Mathematics is designed to expand on the necessary mathematical skills for daily living in modern society. These courses focus on mathematics used in daily life, business, industry, environment, and technology. Students will be expected to be creative thinkers, problem solvers, and data managers. We'll focus on continued development of cooperative, interactive, and communicative skills. The emphasis will be on math that students can use to understand adult finances, measure, interpret statistics, and be aware of the risks of games involving chance.

Essential Mathematics 20S (MAE20S) (3000)

Essential Math 20S topics are as follows: Problem Solving, Analysis of Games and Number, Personal Finance, Consumer Decisions, Measurement, 2-D Geometry, Transformations, Angle Construction, and Trigonometry.

Essential Mathematics 30S (MAE30S) (3000)

Essential Math 30S topics are as follows: Problem Solving, Analysis of Games and Numbers, Managing Money, Interest and Credit, 3-D Geometry, Relations and Patterns, Design Modeling, Trigonometry, and Statistics.

Essential Mathematics 40S (MAE40S) (3000)

Essential Math 40S topics are as follows: Problem Solving, Analysis of Games and Numbers, Precision Measurement, Geometry and Trigonometry, Vehicle Finance, Home Finance, Business Finance, Statistics, Probability, and a Career Life Project.

This course requires students to write a Provincial Standards Exam.

APPLIED MATH FOCUS

Students learn relevant concepts and processes through the use of hands-on investigations and interesting questions which are pertinent to the real world. Graphing calculators and computers allow students to explore important mathematical ideas and encourage open-ended problem solving. Graphing calculators are required for all Applied Math courses.

Applied Mathematics 30S (MAA30S) (3903)

Grade 11 Applied Mathematics deals with measurement, logical reasoning, geometry, statistics, and relations and functions.

Applied Mathematics 40S (MAA40S) (3903)

Grade 12 Applied Mathematics deals with financial investments and borrowing, logic, probability including permutations and combinations, relations and functions (polynomials, exponential, logarithmic, and sinusoidal) and design and measurement. **This course requires students to write a Provincial Standards Exam.**

PRE-CALCULUS FOCUS

Students are exposed to varied, interrelated experiences that encourage them to understand and appreciate the role of mathematics in society. Students should learn to value mathematics, become confident in their mathematical abilities, become mathematical problem solvers, communicate mathematically, reason mathematically, think critically and develop proficiency in basic skills and concepts. This course is designed for students planning on taking Engineering, Science and/or Math at University.

Pre-Calculus Mathematics 30S (MAP30S) (3939)

The topics of study include Quadratic Functions, Trigonometry, Algebra, Analytic Geometry, Geometry, Consumer Math, Logic/Proof, Functions.

Pre-Calculus Mathematics 40S (MAP40S) (3939)

The topics of study include Circular Functions, Transformations, Trigonometric Identities, Exponents and Logarithms, Permutations, Combinations, Binomial Theorem, Conics, Probability, Geometric Sequences and Statistics. **This course requires students to write a Provincial Standards Exam.**

Introduction to Calculus 45S (CAL45S) (3940) /

Advanced Mathematics 45S (ADV45S) (3900)

Introduction to Calculus 45S explores functions, graphs, limits, derivatives and integrals. It also gives students a really good look at what will be taught in first year math courses at University. Students can select Calculus after they complete Grade 11 Pre-Calculus Math or after they complete Grade 12 Pre-Calculus.

Advanced Math 45S will give you a widespread look into math courses offered at the secondary level. While Calculus 45S focusses on topics pertaining to that specific string of mathematics, Advanced Math has a much broader look into matrices, statistical analysis, row reduction of linear systems, vectors and planes. Many concepts will be touched on that will aid in the courses required to fulfill the math requirement at the post-secondary level.

MEDIA, GRAPHIC DESIGN & TECHNOLOGY

Applying Information & Communication Technology 1 15F (AICA15F) (0217) / Applying Information Technology II 15F (AICB15F) (0218)

Students will organize and categorize information using outlines, graphic organizers, spreadsheets, tables, charts, databases and file directories. They will analyze information and concepts using spreadsheets, databases, and simulation software. They will assess various media sources including web sites, CD-ROM's and e-mails to determine contexts, perspectives, purposes, and suitability for audiences. They will discuss electronic communication tools such as videoconferences, chats, instant messaging, blogs and podcasts.

Students will design electronic plans including outlines, timelines and storyboards. They will create interactive non-linear web pages and multi-media presentations. They will design simulations using animations and spreadsheets. They will continue concepts in Technology 1 in further depth and detail.

Digital Pictures 25S (DPI25S) (0226) / Desktop Publishing 35S (DES35S) (0223)

This program is designed for students to acquire the essential skills in creative digital photography. Students will have the opportunity to learn to photograph, edit and critique digital photos as well as the technical concepts of photography including how to navigate camera controls and settings. Emphasis will center on manipulating images of people (portrait), event, nature and landscape photo's using Photoshop Editor software. Attendance to school functions at various times in the year will be a basic requirement of the course. Students will need to provide their own digital camera or electronic device to take the appropriate and required photos.

The second half of the course, Desktop Publishing will focus on creating a variety of published print and digital documents. Using the Photoshop editing software, students will be challenged to create assignments designed and enhanced with concepts covered in the Digital Pictures 25S course.

Drafting Design Technology 20G (DDT20G) (7953)

This is a full credit course that introduces students to drafting and computer aided design. Students will learn how to design by hand and computer. This is a great opportunity for students who are planning a career in the trades, engineering, design, or the sciences.

Keyboarding 25S (KEY25S) (1270) / Print Communications 25S (PRI25S) (0222)

Keyboarding 25G is a half-credit course that deals with developing keyboarding skills. It is designed to improve a student's ability to manipulate a keyboard by reinforcing confidence and improving the functional skill level. This course is recommended for all students, regardless of the intended use of their keyboarding skills. The purpose of this course is to provide students with the skills and knowledge that will enable them to:

- be alert to future opportunities in businesses
- communicate effectively
- keep accurate records
- plan personal goals
- locate, retrieve, and process sources of information
- incorporate guidelines for personal success in working with others

Print Communications 25S allows students to plan and create a variety of documents for business communications. They will learn to create business letters, e-mail messages, essays, business forms, labels, meeting minutes, memos, outlines, press releases, reports, resumes and cover letters. Students will incorporate elements of good

design and will automate repetitive tasks where possible using software tools. These courses are designed to contribute to the growth and development of students and to emphasize skills that will assist young people to plan and start small businesses.

Broadcast Media 35S (BME35S) (0231) & Interactive Media 35S (INM35S) (0237)

Students will learn the use of Graphic and Video Arts programs. The following outcomes are expected - students will:

- learn the use of a professional vector drawing program used to create commercial graphics
- learn the use of a professional digital rendering program and its use in video animation
- learn the use of a professional video editing program and editing suite
- enhance their clarity and artistry in visual communication
- learn the use of camera and lighting equipment

The above will include projects that develop useable skills in graphic arts, video editing and production.

Data Collection & Analysis 35S (DAT35S) (0235) / Relational Databases 35S (RDB35S) (0221)

Students will create worksheets, spreadsheet formulas and charts using data that is input or imported. They will automate tasks where possible, will link worksheets and documents. They will ensure validity and integrity of data and results while improving the readability of a worksheet.

Students will create relational databases by adding fields, creating tables, setting primary keys, defining relationships between tables organizing data, summarizing data, creating reports and sub-reports. They will be able to export data, merge data, create and modify queries. They will set up a mechanism for entering data while ensuring the validity and integrity of the data and the results.

Computer Science 30S (COS30S) (0280)

This course is designed to give you a basic building block to obtaining Visual Basic language. This course builds a strong foundation of structured programming before introducing students to the concept of object-orientated programming. The basics of the program will only be taught in conjunction with the course. The course is divided up into 7 chapters of study.

Web Design 35S (WEB35S) (0234) / Interactive Websites 35S (INW35S) (0225)

This course will provide students with the skills and knowledge to design, develop and publish a simple website to display information. These websites will include multiple pages, tables, objects, links and hyperlinks. Students will critique existing websites making suggestions for improvement and making changes based on feedback.

Students will create and use style sheets, create meta tags, insert and edit client scripts, create and use forms to capture information, analyze scripting languages, critique websites, analyze costs of using a content management system and publish a website.

Computer Science 40S (COS40S) (0280)

This course is designed to give you a basic building block to obtaining C++ language. This course builds a strong foundation of structured programming before introducing students to the concept of object-orientated programming. The basics of the program will only be taught in conjunction with the course. The course is divided up into 7 chapters of study.

PHYSICAL EDUCATION / HEALTH EDUCATION

Physical Education/Health Education 10F (PEH10F) (0169)

Physical Education 10F is a foundational program designed to have students implement the 5 General Learning Outcomes: Personal and Social Management, Fitness Management, Safety, Movement Skills, and Healthy Lifestyle Practices. Students will accomplish this by actively participating in 12 activity/health blocks. Students are encouraged to choose from a variety of team, individual, dual, rhythmic, and theory based activities units.

Physical Education/Health Education 20F (PEH20F) (0169)

In Physical Education 20F students will build upon the framework developed in 10F. Although the General Learning Outcomes are the same, Specific Learning outcomes move to more abstract concepts related to independent analysis of movement skills, sport strategies, and sports leadership. Students are given a choice among 12 physical activity/health blocks. Students are encouraged to choose from a variety of team, individual, dual, rhythmic, and theory based activities units.

Physical Education/Health Education 30F (PEH30F) (0169)

This course is designed to help youth take greater ownership of their own physical fitness, to encourage them to seek out activities that interest them, and to engage in active lifestyles into their futures. Students will study topics related to fitness management, mental health, substance use and abuse prevention, and the social impact of sport. The focus will be on health and personal planning. Students will be introduced to safety and risk management planning to minimize the associated risks of the activities they have chosen. This is a compulsory course for graduation.

Physical Education/Health Education 40F (PEH40F) (0169)

This course is designed to help youth take greater ownership of their own physical fitness, to encourage them to seek out activities that interest them, and to engage in active lifestyles into their futures. Students will study topics related to fitness management, personal and social development, nutrition and healthy relationships. The focus will be on health and personal planning. Students will continue with safety and risk management planning to minimize the associated risks of the activities they have chosen. This is a compulsory course for graduation.

SCIENCE

Science 10F (SCI10F) (0120)

This course is divided into four major areas: Biological Reproduction, Chemistry of Atoms and Elements, Nature of Electricity, and Exploration of the Universe.

Science 20F (SCI20F) (0120)

This course is divided into four major areas: Dynamics of Ecosystems, Chemistry in Action, In Motion, and Weather Dynamics.

Biology 30S (BIO30S) (0124)

This course is arranged around the themes of Wellness and Homeostasis. We will explore many of the human body systems. Topics covered include: Digestion and Nutrition, Transpiration and Respiration, Excretion and Waste Management, and Protection and Control.

Chemistry 30S (CHE30S) (0122)

The areas of study are: Physical Properties of Matter, Gases and the Atmosphere, Chemical Reactions, Solutions, and Organic Chemistry.

Marine Science 31G (MAR31G) (9938)

The aim of this course is to learn about the components of salt water ecosystems. We will cover classification, anatomy, and physiology of organisms and their environments. Topics will include ecological functions, biological communities, types of aquatic zones, and the results of human interactions/disturbances in marine areas. Students will collect and analyze data for a combination of theory and lab work, special events may include guest speakers or field trips, and this course includes a compulsory set of organism dissections.

Physics 30S (PHYS30S) (0123)

Physics is the investigation of physical events, a study of the relationships that exist within our physical world. Topics in this course include motion, waves, light, sound, gravity, electricity, and magnetism. Students will be challenged to interpret the universe in a meaningful way and to increase their skills in problem solving using mathematics as their tool.

Biology 40S (BIO40S) (0124)

This course is arranged around the themes of Genetics and Biodiversity. We will explore inheritance and biodiversity. Topics covered include: Understanding Biological Inheritance, Mechanisms of Inheritance, Evolutionary Theory and Biodiversity, Organizing Biodiversity, and Conserving Biodiversity.

Chemistry 40S (CHE40S) (0122)

The major topics covered are: Electronic Structure, Bonding and The Periodic Table, Reaction Rate and Equilibrium, Ionic Equilibria and Acids and Bases, Solubility, and Oxidation and Reduction. The prerequisite for Chemistry 40S is Chemistry 30S.

Interdisciplinary Topics in Science 40S (ITS40S) (0140)

This course examines science from the scientific, technological, societal, and environmental points of view. Rather than emphasizing the principles and foundations of a single discipline, the course integrates a variety of perspectives in order for the students to better understand a modern issue, trend, or innovation. We will recognize the strengths and limitations in furthering our understanding of the material world, and appreciate the relationship between culture and the development of technologies within the context of sustainability. We will cover appropriate inquiry skills, research and information management, collaboration, and the attitudes and habits of a scientific mind. Our goal will be to explore, understand, and use scientific knowledge, in a variety of contexts.

Physics 40S (PHY40S) (0123)

Students will continue to investigate physical phenomena through a more detailed study of many of the topics previously presented. Students will draw on skills previously acquired in the 40S course as they work with somewhat more abstract topics.

Psychology 40S (PSY40S) (1010)

Introduction to Psychology explores the topics of sensation/perception, learning, motivation/emotion, interacting with others, states of consciousness, memory, problem solving and the biology underlying behavior. Students will discover how psychology can be used to understand the society in which we live.

SOCIAL STUDIES

Canada in the Contemporary World 10F (CAN10F) (0101)

The main focus of this program is Canadian Studies. Some of the topics covered are: Canadian Identity and Culture, Geography and Economy, Government and Law, and Canada and the World. Past and present issues are discussed on the various topics.

Geographic Issues of the 21st Century 20F (GEO20F) (1180)

This course will discuss geographic issues in Canada and throughout the world. A great deal of emphasis will be placed on how humans interact with the environment around them and how this interaction has influenced our way of life. Also, students will learn about patterns and how everything in the world is connected in our global society.

History: American 20G (AME20G) (0481)

American History is a course that takes you on a journey from who inhabited the land prior to colonization to the inhabiting of settlers which leads to the making of the constitution, the expansion of the West, slavery and the American Civil War. Once America is broken down, we take a glimpse at reconstructing America, the fight for black rights with Malcom X and Martin Luther King Jr and move through the progressive era to the glory of the roaring 20's with prohibition, Al Capone and gangsters. All of this is followed by a glimpse into the downwards plummet of America in the 1930's. The focus of this course will be on the key aspects of these events, peoples and how they significantly impact the American society that we see today.

History of Canada 30F (HIS30F) (0105)

This course is a chronological study of Canada's people, culture and politics. From Canada's first immigrants to its involvement in WWI, WWII and the Cold War – this course will provide an overview of Canada's History.

Current Topics in FNMI Studies 40S (FNMI40S) (0103)

This course examines Indigenous realities within contemporary and historic Canadian and global settings. The course is inclusive to the traditional values and worldviews of First Nations, Métis, and Inuit peoples. The over-arching goal of Aboriginal Studies 40S is to provide both Indigenous and non-Indigenous students with knowledge of Indigenous cultures and traditions, and to encourage Indigenous students to take pride in the accomplishments of their peoples. This knowledge will enable Indigenous students to participate meaningfully as citizens of their cultural community, of contemporary Canadian society, and as active and engaged global citizens. Non-Indigenous students will become knowledgeable of the worldviews, histories, cultures, and accomplishments of Indigenous peoples, and thus be able to engage in an informed and empathetic manner in debates concerning Indigenous issues at the local, national, and global levels.

Global Issues: Citizenship & Sustainability 40S (GLO40S) (1128)

This course is based on the principles of active democratic citizenship, ecological literacy, critical media literacy, and ethical decision-making. It consolidates learning across the disciplines to empower students as agents of change for a sustainable and equitable future. Students will conduct inquiry into the social, political, environmental, and economic impact of contemporary and emerging global issues. Through their inquiry, students will focus on questions of quality of life locally, nationally and globally. Topics that will be explored will include:

- population
- poverty
- the environment
- world organizations
- terrorism
- human rights
- genocide

As a mandatory component of the course, students plan and implement a community-based action-research project.

History: Western Civilizations 40S (WES40S) (1136)

This course explores the common characteristics and the major concepts that have played a significant role in developing and shaping Western Civilization. Content explores the legacy of ancient Greece and Rome, Judeo-Christian thought and the medieval religious and social institutions of pre-modern Western Civilization. It also examines the Renaissance, the Reformation and the age of reason and revolution. The course finishes by exploring the major movements and events of the 19th and 20th centuries.

Law 40S (LAW40S) (0580)

This course is designed to introduce students to the basic principle of law, how it affects them in their personal and business lives; and to help students to understand and appreciate their legal rights and responsibilities. Students are introduced to various topics of our legal system and gain an understanding of legal procedures in Criminal and Civil Law.



2018-19

The **Louis Riel Arts & Technology Centre** is an extension of the Louis Riel School Division high schools for grade 11 & 12 students. Students who choose ATC as part of their high school studies take the majority of their grade 11 & 12 elective courses at ATC and their compulsory courses at their home school. Students typically attend ATC for one semester in grade 11 for Part 1 of a program and then may return for another semester, in grade 12, to take Part 2 of their program. Talk to your counsellor about other possible patterns.

Students register at their home school, allowing them to participate in school events and extra-curricular activities including sports, music, and student government. Students graduate with their classmates at their home school. In addition to their regular high school diploma and an ATC certificate, students may earn a Technology Education high school diploma. ATC students who hold evening or summer jobs may be eligible to obtain high school credits towards graduation and time credit towards continued apprenticeship training by applying for the High School Apprenticeship Program.

Students are encouraged to bring and use their own electronic devices. Students are encouraged to participate in intramural activities available during the lunch hour our open gym program as well as the Student Leadership Council.

See your guidance counsellor to include ATC courses as part of your grade 11 and 12 or post-secondary plans.

ATC PROGRAMS

Academic Courses: To assist with scheduling, ATC students can enrol in an online academic course while at ATC. There are five class periods in a day at ATC and most programs require four periods with the exception of the following programs: Building Trades, Hairstyling, and Esthetics. Academic courses are scheduled into the remaining period and include:

- | | |
|---------------------------------------|---|
| • English Comprehensive Focus 30S/40S | • Essential Mathematics 30S/40S |
| • English Transactional Focus 40S | • Applied Mathematics 30S/40S |
| • History 30F | • Pre-Calculus 30S/40S (sem 2) |
| • Physics 30S/40S (sem 1) | • Calculus 42S & World History 42S (AP) |
| • Biology 30S/40S (sem 1) | • Physical Education 30F/40F |

Applied Business Management: Designed for students with strong personal interest in business, finance, and entrepreneurship. This is a dual credit program where students can earn eight high school credits as well as six credit hours at the University of Winnipeg.

- **Skills** – working with collaborative teams, and independently, strong communication skills, financial literacy, and an interest in business and marketing ventures

- **Features** – theory, project based practical skills, and working with clients
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**
- **University Credits** – can receive six credit hours for completion of Introduction to Business 1 (BUS-1201(3)), and Fundamentals of Financial Accounting (BUS-2002(3))

Automotive Technology: The Automotive Technology program is for students interested in automotive technology and to prepare students for employment or further education in the automotive industry.

- **Skills** – diagnosis and repair related to basic service, mig & gas welding, brakes, engine fundamentals & performance applications, fuel systems, chassis & drive train and electronics
- **Features** – theory, practical lab work, on-the-job training on customer vehicles in a well-equipped shop, industry work practicum (4 weeks)
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**
- **Apprenticeship Manitoba** – can receive credit for Level 1 in-school technical training for the trade of Automotive Service Technician

For more detailed information about specific programs, see your counsellor for a brochure or call 204 237 8951.
 website: www.lratc.ca facebook: www.facebook.com/atcLRSD twitter: [@ArtsTechCentre](https://twitter.com/ArtsTechCentre)

Baking & Pastry Arts: This program is designed for students with interested in pastry and baking and to prepare them for employment in the food services industry, retail and commercial bakeries, pastry shops, specialty shops, corporate and health care cafeterias, cruise ships and international resorts and hotels.

- **Skills** – sanitation and safety procedures, bakery management, quick breads & cookies, yeast goods, wedding & occasional cake production and decorating, special pastries, chocolate, artistic show pieces
- **Features** – theory, on-the-job training in well-equipped bakery
- **Part 1** – 4 credits
Part 2 – 4 credits
- **This program has a September and February intake**

Broadcast Media: Broadcast Media consists of the production and transmission of audio or video programming for a variety of media, including radio, television, and the internet.

- **Skills** – video, film, and audio production, multi-camera production, content editing, lighting, storyboarding, script writing, news reporting, sporting event video production
- **Features** – state-of-the-art industry-quality equipment, hands on experience with the school's online TV station – LRSD TV
- **Part 1** – 4 credits
Part 2 – 4 credits
- **This program has a February intake**

Building Trades: Designed to provide students (minimum 16 years old) with valuable on-the-job experience in one or more building construction trade(s) that may include; carpentry, concrete, bricklaying, framing, heating, plumbing, painting and cabinet-making in preparation for employment, apprenticeship or further education.

- **Skills** – theory and demonstrations focus on all aspects of residential construction including blueprints, concrete, framing, exterior coverings & roofing, interior millwork & finishing, cabinets & finish coatings, electrical, heating & air-conditioning and renovations. On-the-job skills training will vary depending on the trade chosen for industry work practicum.
- **Features** – theory & demonstrations (Mondays at ATC) and industry work practicum (Tuesday – Friday on job sites). Students are required to travel to job sites and may work in adverse conditions.
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a September and February intake**

Culinary Arts: The Culinary Arts program offers instruction that includes a blend of practical, theory, catering, and on-the-job training. The program will prepare students for

employment locally, nationally or internationally or for further education in the food services industry.

- **Skills** – preparation of fruits & vegetables, stocks, soups & sauces, meats, poultry, fish & seafood, baking & pastry, nutrition, garde manger, management, purchasing, costing, catering and entrepreneurship
- **Features** – theory, on-the-job training in well-equipped commercial kitchen, on-site and off-site catering, industry work practicum (4 weeks)
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a September and February intake**
- **Manitoba Apprenticeship** – may receive credit for Level 1 in-school technical training for the trade of Cook

Early Childhood Educator: Designed for students with strong personal interest in early childhood education and to prepare students for employment in child care centres. This program provides a strong foundation and a head start for students considering further post-secondary education leading to Early Childhood Educator II (ECE II) designation.

- **Skills** – development of self-regulation through guided practice, planning play-based experiences and interacting with children through play, providing nurturing care, cultural diversity and family dynamics, human development, infancy & toddlerhood, and communication
- **Features** – comprehensive child development theory delivered in a teacher-led classroom environment, weekly work practicum in a child care facility
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a September and February intake**
- **Red River College** – students who complete the ATC program with a grade of 65% or greater in each course can apply to enter directly into Term 2 of the four-term Early Childhood Education program. RRC Early Childhood Education graduates earn credit toward degree programs at several universities; please see RRC website for details.

Electrical Trades: This program provides a strong foundation in residential and commercial wiring and variety of electrical installations. Upon completion students will be prepared to continue apprenticeship or continue with post-secondary education.

- **Skills** – principles of electronics including relevant mathematics and physics, Canadian Electrical Code, AC/DC Circuits, residential and industrial wiring, conduit bending, armoured cable applications, blueprint reading, installation of complete systems
- **Features** – theory in a teacher-led classroom environment, hands-on practical work in a lab facility
- **Part 1** – 4 credits
Part 2 – 4 credits
- **This program has a February intake**

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- **Apprenticeship Manitoba** – graduates can receive credit for Level 1 in-school technical training for the trade of Construction Electrician, Industrial Electrician, and Power Electrician

Esthetics: This program provides students with the knowledge and skills required for all aspects of Esthetics that include: manicures, pedicures, hand and facial treatments.

- **Skills** – manicures, pedicures, nail extensions, nail art & nail treatments, skin treatments, make-up application and hair removal
- **Features** – theory, practice on mannequins, on-the-job training on clients in a well-equipped salon facility, skills competitions
- **Part 1** – 5 credits
- **Part 2** – 6 credits
- **This program has a September and February intake**
- **Apprenticeship Manitoba** – Students who successfully complete Parts 1 & 2 and pass the practical exam administered by Apprenticeship Manitoba will be eligible to enter a two-year apprenticeship, which will lead to journeyman status as an Esthetician

Hairstyling: This program is designed for students with strong personal interest in hairstyling and to prepare students for employment as a hairstylist for both men and women.

- **Skills** – safety & sanitation, hair analysis, shampooing & hair cutting, waving & straightening, lightening, conditioning, hairstyling, hair coloring, beauty treatments on face and neck, wig & hairpiece service, trimming beards & mustaches, makeup, manicures on natural nails and salon management
- **Features** – theory, practice on mannequins, on-the-job training on clients in a well-equipped salon facility, industry work practicum (1 week), hairstyling competitions
- **Part 1** – 5 credits
- **Part 2** – 5 credits
- **Part 3** – 2 credits
- **This program has a September and February intake**
- **Apprenticeship Manitoba** – successful students will be eligible to enter a two-year apprenticeship in a salon, which will lead to red seal journeyman status as a Hairstylist. Students may be eligible to begin a paid apprenticeship while enrolled in the program

Information Systems: Designed for students with strong personal interest in computer repair and networking and to prepare students for employment in the installation and maintenance of computer hardware, software and network infrastructure. ATC is part of the Cisco Academy Program.

- **Skills** – software, hardware and networking fundamentals and troubleshooting, security and forensic techniques, network gaming and optimization, router

programming, home and small business networking solutions.

- **Features** – theory, on-the-job training on clients' computers, industry work practicum (4 weeks)
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**
- **Red River College** – can receive credit in the following programs: Electronic & Network Technician, Electronic & Network Technician, Electrical/Electronic Engineering Technology, Network Technology (CCNA)
- **External Industry Certification** – students completing Part 1 can write the CompTIA A+ Computer Repair Technician exam. In Part 2, students may also choose to write the CompTIA Net+ Network Technician exam. Students may also be eligible to write the Cisco CCENT_ Cisco Certified Entry Network Technician exam (extra fees apply).

New Media Design: This program will expose students to different aspects of the New Media Industry through participation in the work flow of designing and developing an online presence. This program provides a solid foundation for students considering a career in website development, computer programming, digital media design, game design and development or other information technology fields whether through direct employment, self-employment or further study at university or Red River College.

- **Skills** – HTML, CSS, Java Script, PHP, website creation and maintenance using Dreamweaver, web layouts and graphics using Photoshop and Fireworks, Flash Games & Action Script, database concepts, business concepts including SEO and Social Media, project management
- **Features** – web project for a business client (4 months), online portfolio development
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**
- **Red River College** – may receive credit in the following programs: Digital Media Design and Business Information Technology

Plumbing Trades: Designed for students with strong personal interest in the piping and plumbing industry and to prepare students for employment, apprenticeship, or further post-secondary education.

- **Skills** – workplace safety, tool use and maintenance, piping material storage and assembly, construction code education and application, piping installation, venting system installation, water distribution installation, fixture installations, plumbing system installations
- **Features** – State-of-the-art learning facility and lab
- **Part 1** – 4 credits
- **Part 2** – 4 credits
- **This program has a February intake**

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High School Apprenticeship Program (HSAP) Available in LRSD High Schools

HSAP allows Louis Riel School Division students, while attending their home high school or ATC, to earn up to eight grade 12 credits and up to 880 hours of on-the-job training towards continued apprenticeship training after graduation. Depending on school timetable, students may be able to do paid work during the day, evening, or weekend. Summer work can count too. Students must work a minimum of 110 hours towards apprenticeship in any of the designated trades and obtain a grade of 70% or higher on their evaluation to be eligible to receive one credit. ATC students who register for HSAP can combine their on-the-job hours earned in an ATC program with hours earned through HSAP for a significant start on apprenticeship.

- **Skills** – on-the-job skills in over 40 trades consistent with Apprenticeship Manitoba guidelines for training
- **Features** – a way to make your part-time job count and earn grade 12 credits towards graduation, allows you to begin apprenticeship while in school, you get paid to learn
- **Prerequisites** – high school students must have a complete Grade 10, students must be at least 16 years old
- **Student's Responsibilities** – to gain entry into the HSAP program the student:
 - finds an employer willing and able to train an apprentice
 - contacts the LRSD apprenticeship teacher
 - works with school to ensure an appropriate timetable is possible

Once accepted into the HSAP program, the student:

- arranges travel to and from work
 - maintains all in-school studies and a 70% mark in on-the-job training
 - informs the employer of any absences
 - reports regularly all hours worked to the LRSD apprenticeship teacher
- **How to Register** – students may see Mr. Darry Stevens, Louis Riel School Division HSAP Teacher, at their home school or contact him by phone at 204-792-4816. More information about HSAP is available online at <http://www.lratc.ca>
 - **Qualifying Trades**

INDUSTRIAL

- Electric Motor System Technician
- Industrial Electrician
- Industrial Instrument Mechanic
- Machinist
- CNC Machinist
- Power Electrician
- Rig Technician
- Tool and Die Maker
- Water and Wastewater Technician
- Welder

TRANSPORTATION

- Agricultural Equipment Technician
- Aircraft Maintenance Journeyperson
- Automotive Painter
- Automotive Service Technician
- Diesel Engine Mechanic
- Gas Turbine and Overhaul Technician
- Heavy Duty Equipment Mechanic
- Marine & Outdoor Power Equipment Technician
- Motor Vehicle Body Repairer
- Railway Car Technician
- Recreational Vehicle Service Technician
- Transport Trailer Technician
- Truck & Transport Mechanic

CONSTRUCTION

- Boilermaker
- Bricklayer
- Cabinetmaker
- Carpenter
- Concrete Finisher
- Construction Craft Worker (Labourer)
- Construction Electrician
- Crane & Hoist Equipment Operator
- Glazier
- Industrial Mechanic (millwright)
- Mobile Crane Operator
- Boom Truck Hoist Operator
- Tower Crane Operator
- Power Generation and Transmission Boom Truck Hoist Operator
- Gasfitter
- Domestic Gasfitter
- Floor Covering Installer
- Insulator (Heat & Frost)
- Ironworker
- Lather (Interior Systems Mechanic)
- Landscape Horticulturalist
- Painter & Decorator
- Plumber
- Refrigeration & Air Conditioning Mechanic
- Rig Technician
- Roofer
- Sheet Metal Worker
- Sloped Roofer
- Sprinkler System Installer
- Steamfitter-Pipefitter

SERVICE

- Cook
- Electrologist
- Esthetician
- Hairstylist
- Parts Person
- Pork Production Technician

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