



# Collège Miles Macdonell Collegiate

River East Transcona School Division



**COURSE HANDBOOK**  
**2025 - 2026**

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# MISSION STATEMENT

At Collège Miles Macdonell Collegiate we value the development of critical thinkers who responsibly and compassionately contribute to a more peaceful, sustainable and equitable world.

The compass represents our four core values.



## Direction

We value perseverance: setting and pursuing goals and developing leadership skills.

## Exploration

We value inquiry:  
being academically dedicated, thoughtful, and intellectual risk-takers who consider both global and local issues.

## Inclusion

We value balance: supporting all members of our community, inclusive of language, culture, and background.

## Compassion

We value service: striving to be caring, empathetic citizens.

# BUCKEYES

As students experience a myriad of programs, courses, community events, activities, and clubs at Collège Miles Macdonell Collegiate, they will also learn about themselves. The key characteristics of being a Buckeye are traits that students can carry with them throughout their lives. Once a Buckeye, always a Buckeye!

<b>B - BOLD:</b>	We are confident. <i>Nous sommes confiants.</i>
<b>U - UNITED:</b>	We are connected. <i>Nous faisons partie d'une communauté.</i>
<b>C - CREATIVE:</b>	We are imaginative. <i>Nous avons de l'imagination.</i>
<b>K - KNOWLEDGEABLE:</b>	We are curious. <i>Nous sommes curieux.</i>
<b>E - EMPOWERED:</b>	We are responsible. <i>Nous sommes responsables.</i>
<b>Y - YOURSELF:</b>	We are unique. <i>Nous sommes uniques.</i>
<b>E - ENTHUSIASTIC:</b>	We are positive. <i>Nous sommes enthousiastes.</i>
<b>S - SELFLESS:</b>	We are caring. <i>Nous sommes sympathiques.</i>



# CREDIT SYSTEM & CODES

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

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

## First Character

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

## Second Character

- 0 – developed or approved by Manitoba Education for 1 credit
- 5 – developed or approved by Manitoba Education for ½ credit
- 1 – developed by school or division (includes SICs – School Initiated Courses and SIPs - Student Initiated Projects). These courses may be full or ½ credit courses.
- 2 - developed elsewhere and approved by Manitoba Education (Advanced Placement)

## Third Character

<b>AP</b>	Advanced Placement	Academically challenging advanced placement AP courses at the grade 11 and 12 level that are recognized for credit or placement at most post-secondary institutions.
<b>S</b>	Specialized	Courses that provide learning experiences, knowledge and skills that may lead to further post-secondary studies.
<b>F</b>	Foundation	Courses which are broadly based and appropriate for all students and which may lead to further studies beyond grade 12.
<b>G</b>	General	Courses that provide a general educational experience.
<b>M</b>	Modified	Courses in which the number, essence, and content of the curriculum outcomes are altered.
<b>FI</b>	French Immersion	Courses with French instruction and eligible for a French Immersion Diploma.



# HIGH SCHOOL PROVINCIAL ACADEMIC GRADUATION REQUIREMENTS

- Compulsory credits may be taken at F, G, S, A level
- Students planning to attend university must take at least five 40S credits (40S/42S).

GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>Compulsory – 5 credits</b>	<b>Compulsory – 5 credits</b>	<b>Compulsory – 4 credits</b>	<b>Compulsory – 5 credits</b>
Language Arts – 1 credit Life/Work Exploration – .5 credit	English – 1 credit	English – 1 credit	English – 1 credit
Transitional Mathematics – 1 credit Mathematics – 1 credit	Mathematics – 1 credit	Mathematics – 1 credit	Mathematics – 1 credit
Physical Education – 1 credit	Physical Education – 1 credit	Physical Education – 1 credit	Physical Education – 1 credit
Canada in the Contemporary World – 1 credit	Geography – 1 credit	History of Canada – 1 credit	
Science - 1 credit	Science - 1 credit		
Options – min. 3 credits	Options – min. 3 credits	Options – min. 3 credits	Options – min. 3 credits
<b>9.5 credits</b>	<b>8 credits</b>	<b>7 credits</b>	<b>Minimum 6 courses</b>
<b>30 credits required for graduation NOTE: THIS ONLY ADDS UP TO 30 CREDITS</b>			



# FRENCH IMMERSION PROGRAM

## GRADUATION REQUIREMENTS

- Students in the 2024 - 2025 school year, must earn at least 15 credits from courses taught in Français to meet the requirement of the Provincial French Immersion Diploma Program.
- Students may combine courses from the French Immersion Program and Advanced Placement programs which permit them to obtain a French Immersion Program Diploma and a number of AP credits.
- Students in the French Immersion Program are to enrol in as many Français language of instruction courses offered as possible as this will increase Français language skill acquisition and fluency.

GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>Compulsory – 6 credits</b>	<b>Compulsory – 6 credits</b>	<b>Compulsory – 5 credits</b>	<b>Compulsory – 5 credits</b>
Français – 1 credit Vie- travail -exploration – .5 credit	Français – 1 credit	Français – 1 credit	Français – 1 credit
Language Arts – 1 credit	English – 1 credit	English – 1 credit	English – 1 credit
Mathé de transition – 1 credit Mathématiques – 1 credit	Mathématiques – 1 credit	Mathématiques – 1 credit	Mathématiques – 1 credit
Éducation Physique – 1 credit	Physical Education – 1 credit	Physical Education – 1 credit	Physical Education – 1 credit
Canada dans le monde contemporain - 1 credit	Géographie - 1 credit	Histoire du Canada 1 credit	
Sciences de la nature – 1 credit	Sciences de la nature– 1 credit		1or 2 additional Grade 12 credit taught in French
Options – Min. 2 credits	Options – Min. 2 credits	Options – Min. 2 credits	Options – Min. 2 credits
<b>9.5 credits</b> <b>Minimum 4 credits in the</b> <b>Immersion program</b>	<b>8 credits</b> <b>Minimum 4 credits in the</b> <b>Immersion program</b>	<b>7 credits</b> <b>Minimum 3-4 credits in</b> <b>the Immersion program</b>	<b>7 credits</b> <b>Minimum 3-4 credits in</b> <b>the Immersion program</b>
<b>30 credits required for graduation</b>			

# COLLÈGE MILES MACDONELL COLLEGIATE

## ADVANCED PLACEMENT

Advanced Placement (AP42) courses provide students with an opportunity to explore university-level coursework while studying in a familiar high school setting. Students begin with advanced courses in their grade 11 year in preparation for the Advanced Placement 42S courses. Advanced Placement 42S courses are offered through an external organization, The College Board. In order to ensure consistency and academic rigour. The College Board establishes the curriculum for each course. A final exam is held in May for each Advanced Placement 42 course and students are scored on a scale of 1-5 on the exam. Depending on the exam result and the guidelines for the university of choice, a student may be recognized for equivalent course credit at the university level. Students may choose to enrol in just one Advanced Placement course or may choose multiple courses depending on their interest and aptitude. Students who complete an Advanced Placement course benefit from the skills and experiences that come with engaging in extra academic challenge through exposure to a university level course while still attending high school.

**Advanced courses (30SA/40SA)** prepare students for the Advanced Placement (AP42) courses by giving them opportunities to build additional skills while they move at an accelerated pace and explore provincial curricular content with additional depth and breadth.

<b>Any one course or more may be taken based on interest and aptitude.</b>	
<b>GRADE 11</b>	<b>GRADE 12</b>
Pre-Calculus Mathematics 30S Advanced (Semester 1) Pre-Calculus Mathematics 40S Advanced (Semester 2) or Mathématique pre-calcul 30S avancée (Semester 1) Mathématique pre-calcul 40S avancée (Semester 2)	Calculus AB 42AP
English: Literary Focus 30S Advanced (S1) English: Literary Focus 40S Advanced (S2)	English Literature and Composition 42 AP
Biology 30S Advanced or Biology 30S or Biologie 30S	Biology 42 AP
Chemistry 30S Advanced or Chemistry 30S or Chimie 30S	Chemistry 40S Advanced (S1) Chemistry 42 AP (S2)
Physics 30S Advanced or Physics 30S or Physique 30S	Physics 1 42 AP



RETSD sTeam labs offer an integrated programming structure that provides increased student choice in learning to earn credits. Rather than subjects being isolated, the curriculum from different subjects are integrated while students work with a team of teachers in larger blocks of time. The scheduling provides opportunities for deep thinking about complex ideas.

### Grade 10 PROGRAM REGISTRATION

Students earn credits in the following areas:

- Science
- English Language Arts
- Arts

Working in one three-period block of time each day for a semester, students utilize the design thinking process, develop project management strategies, and share their work in various settings. Students will learn to use different technologies to creatively implement their understanding of curriculum through smaller class projects to improve their global competencies. Contact with industry through guest speakers, and site visits allow students to make connections between the skills they are learning in class and the skills needed for life beyond high school.

French Immersion students can participate in the sTeam program and still fulfill all grade 10 FI course requirements. Students earn credits in the following areas:

- Science de la nature
- Français
- Arts visuels

### Grade 11 PROGRAM REGISTRATION

Students earn credits in the following areas:

- History of Canada
- English Language Arts: Comprehensive Focus

Working in a two-period block of time each day for a semester, students use historical thinking concepts to inform their thinking about present societal issues. They will continue to build their global competencies and digital literacy skills by connecting with a variety of audiences. Projects are of an expanded scope and utilize the design thinking process to design and manage their ideas. Industry connections become more personalized as students engage in individual networking, attend guest speaker sessions, and participate in site visits.

French Immersion students can participate in the sTeam program and still fulfill all grade 11 FI course requirements. Students earn credits in the following areas:

- Histoire du Canada
- Français

### Grade 12 PROGRAM REGISTRATION (Prerequisite Grade 10 and/or Grade 11 sTeam)

Students earn credits in the following areas:

- English Language Arts: Comprehensive Focus
- and a choice of English Language Arts: Transactional Focus, Global Issues, or Visual Art.

Working in a two-period block of time each day, students create and manage their own capstone projects. Students will connect and collaborate with industry partners to apply global competencies in a real-world context. Students will be given the semester to complete the project and will utilize the capstone to highlight their personal development, culminating in a final presentation where they share their learning and growth. Students will be connected to an industry mentor in their area of interest.

# INTENSIVE TECHNICAL VOCATIONAL PROGRAM INFORMATION

RETSD students can apply to take Technology Education courses at Kildonan-East Collegiate and Murdoch MacKay Collegiate, beginning in their grade 11 year. The exception to this is Hairstyling, which begins in their grade 10 school year. The courses being offered at each school include:

## Programs Offered

### Kildonan-East Collegiate

- Automotive Technology
- Baking and Pastry Arts
- Carpentry
- Culinary Arts
- Collision Repair and Refinishing Technology
- Electrical Trades Technology
- Graphic Design
- Hairstyling
- Interactive Digital Media
- Photography
- Refrigeration and Air Conditioning

### Murdoch MacKay Collegiate

- Carpentry
- Fashion Technology



Successful applicants will spend one semester in grade 11 at their home school completing academics and one semester at either Kildonan-East Collegiate or Murdoch MacKay Collegiate, taking their selected vocation. The same applies for grade 12.

## Program Requirements

- Two-year commitment
- Attendance in good standing
- On track for graduation
- Awareness and commitment to complete an all-day course every day for a full semester
- Be responsible for own transportation to and from Kildonan-East Collegiate or Murdoch MacKay Collegiate.
- Completion of Expression of Interest application
- Students are responsible for purchasing/supplying their own safety clothing (PPE) and supplies.
- Students are responsible for ensuring appropriate dress and providing PPE and supplies as indicated for each vocation.

For more information, please refer to the RETSD Technical Vocational Handbook on our school website.



# APPRENTICESHIP

## High School Apprenticeship Program (HSAP)

The High School Apprenticeship Program (HSAP) is a great opportunity for students to get on-the-job experience with an employer. HSAP provides practical, paid, work experience and up to eight credits towards your high school diploma. HSAP provides an opportunity for early entry into trades and to build interest with youth. Students are able to transfer their hours of HSAP on-the-job training after graduation to a Level One apprenticeship training program.

Students should be either currently working in the skilled trades, or have a genuine interest in a career in the skilled trades.

*Students should be:*

- 16 years or older
- Currently enrolled in high school courses (either academic or vocational stream)
- Willing to find an employer to take them on as an apprentice

*Benefits of Apprenticeship and a Career in the Trades:*

- An affordable post-secondary opportunity and lower student debt
- Federal and provincial tax incentives and scholarship opportunities
- Strong earning potential
- Red Seal Certification transferable across Canada
- Steadily increasing demand and extensive opportunities for advancement

*For more information:*

River East Transcona School Division: [www.retsd.mb.ca](http://www.retsd.mb.ca)

Apprenticeship Manitoba Website: [www.gov.mb.ca/tradecareers](http://www.gov.mb.ca/tradecareers)

River East Transcona School Division Apprenticeship Teacher (204)223-0529 or [apprenticeship@retsdb.mb.ca](mailto:apprenticeship@retsdb.mb.ca)



# OTHER CREDIT OPTIONS

## **Community Service Credit (Student-Initiated Project)**

The skills, knowledge, and attitudes gained through community service can increase a student's confidence and maturity, and provide more awareness of the needs of others in the community. Students participating in such an activity may earn a credit towards graduation. Students must apply through Student Services before beginning a service project.

## **Credit for Employment**

Students gain valuable skills through on-the-job work experience, therefore the Credit for Employment (CFE) credit is available to provide students with the opportunity to earn up to 2 high school credits for paid employment. CFE can enrich students' understanding of the relevance of education and the importance of developing career readiness. Students must be 16 years of age or older and are responsible for finding their own employment. Students must hold a minimum of a 0.5 credit in a career development course (Life Exploration 10S) to be eligible.

## **Special Language Credit**

Students can apply to gain up to four academic credits in a Heritage language. More information is available from our Student Services Department. Exams can be written in either fall or spring.

## **Cadets Credit**

Students can earn up to two credits for successful completion of the Cadet basic and advanced training programs. The Cadet credits are recognized only as additional credits beyond the minimum 30 credits required for graduation. Students wishing to add these credits to their transcript should visit Student Services.

## **Private Music Option Credit**

The Private Music credits are recognized only as additional credits beyond the minimum 30 credits required for graduation. Students wishing to add these credits to their transcript should visit Student Services.

## **Royal Winnipeg Ballet Credit**

Students can be granted a credit for the Royal Winnipeg Ballet. The Royal Winnipeg Ballet credits are recognized only as additional credits beyond the minimum 30 credits required for graduation. Students wishing to add these credits to their transcript should visit Student Services.



# CAREER CONNECT

## LIFE/WORK BUILDING & TRANSITIONING COURSE DESCRIPTIONS

### LIFE/WORK EXPLORATION 15S

Credit: .5

This grade 9 course provides students with the opportunity to begin their exploration in the world of work. Students increase their self-awareness and develop skills in personal management and career exploration while learning about their interests, skills, personality traits and values. This course is taken in conjunction with English Language Arts 10F.

### VIE-TRAVAIL: EXPLORATION 15S

Credit: .5

Ce cours de 9e année offre aux élèves l'occasion de commencer leur exploration du monde du travail. Les élèves augmentent leur conscience de soi, développent des compétences en gestion personnelle et ils explorent des carrières tout en apprenant sur leurs intérêts, leurs compétences, leurs traits de personnalité et leurs valeurs. Ce cours est suivi en conjonction avec le cours de Français 10F pour les élèves dans le programme d'immersion.

### LIFE/WORK PLANNING 20S

Credit: 1

Students will receive an overview of career development outcomes while building positive self-esteem, locating work information, and selecting high school courses. Students will develop skills in personal management, career exploration, and career/community experiences.

### LIFE/WORK BUILDING & TRANSITIONING 30S & 40S

Credits: 2 (30S and 40S)

Students will identify work or career interests and will then be placed in an entry level position with a local business partner. This three month placement will develop students' knowledge, skills, confidence, and employability through new contacts and references, and an enhanced resume. Students will work with their teacher mentor to ensure a successful transition to the world of work or to continued career-related training and education.

Some examples of past placements include:

- Cancer Care Manitoba
- Law enforcement
- Salons
- Elementary and middle schools
- Restaurants
- Community clubs
- Animal services
- Law firms
- Physiotherapy clinics
- Trades
- Veterinary clinics
- Autobody

### BUSINESS INNOVATIONS 10S

Credit: 1

This introductory course 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.

### ENTREPRENEURSHIP 20S

Credit: 1

Entrepreneurship focuses on developing the foundational skills and ideas needed to plan and develop a business. This course is relevant to high school students since many are already involved in their communities and are starting to recognize various needs and opportunities in their areas. Students start by analyzing innovations, inventions, and creative ideas. They learn the process of planning, marketing and implementing a venture. This course is designed for students interested in business principles related to the ownership and management of a business



# CREATIVE ARTS COURSE DESCRIPTIONS

## DANCE

### DANCE 10S

Credit: 1

Students will be introduced to fundamentals of ballet, jazz, lyrical, hip hop, and modern. Dance students will develop body strength and coordination as well as a basic understanding of dance terminology, performance etiquette, and choreographic skills. Students will apply their learning by choreographing and performing a dance routine. Opportunities for viewing different dance styles will be provided.

### DANCE 20S

Credit: 1

Students will explore various dance styles, including ballet, jazz, hip hop, lyrical and modern. Students will learn a variety of dance routines that emphasize coordination, technique, and endurance. This course will strengthen and improve dance fundamentals. Opportunities for viewing and creating choreography will be integrated into the course.

### DANCE 30S

Credit: 1

Students will extend their dance experience by focusing on improving technique and flexibility. Students will enhance their dance etiquette, knowledge, and choreographic skills. Students will explore dance as medium to develop self-discipline, risk taking, cooperation, assertiveness, and creativity by creating, and reflecting through dance. Opportunities for viewing and creating choreography will be integrated into the course.

### DANCE 40S

Credit: 1

This course is designed as a consolidation of the fundamental elements in dance. Students will continue to develop dance technique, flexibility, agility, coordination, fitness, musicality, and creativity while continuing to explore ballet, jazz, hip hop and modern dance. This class strives to complete the dancers' education by giving them the opportunity to teach a class to others. Opportunities for viewing and creating choreography will be integrated into the course.



# CREATIVE ARTS COURSE DESCRIPTIONS

## DRAMA

### DRAMA 10S

Credit: 1

This introductory course is based on the premise that everyone can act and does act. Students will be introduced to drama through participation in a variety of games, exercises, and performance opportunities. Students will explore the world of theatre and will act on stage in small and large groups and individually. Students will learn the basics of stage composition and will experiment with ideas, elements, and forms to create several original performance pieces.

### DRAMA 20S

Credit: 1

Students will discover acting's component parts in various theatre games, workshops, and activities. Students will learn the basics of the theory and practice of acting and how to immerse themselves in the "truth of the moment." Students will develop a greater understanding of drama and will perform for their peers while developing on-stage and backstage skills using a range of dramatic forms.

### DRAMA 30S

Credit: 1

Students will focus on the interpretation of characters and scripts. Students will examine the psychology of acting and role creation. Students will learn to develop characters using both published and original scripts. Students will continue to develop skills for both on-stage and backstage work and will delve into a range of styles of theatre.

### DRAMA 40S

Credit: 1

This advanced course in theory, writing, acting, directing, and play production focuses on the creative voice. Students will study theatre practitioners and various schools of theatre. Students will explore drama and theatre, including techniques of analysis and interpretation, script writing, and directing. Students will develop and direct several original scripted creations.



# CREATIVE ARTS COURSE DESCRIPTIONS

## MUSIC

**MUSIC - CHOIR**  
10S, 20S, 30S and 40S  
Credit: 1 at each level

There is a singer in everyone one of us. Making music together is a powerful and meaningful social practice important for communities and self-expression. Each student has a unique voice and in singing with others we come together as a unique CMMC community addressing personal growth and understanding of our diverse world through the art of vocal music. Students will learn about vocal technique, artistic performance, practice/performance procedures, and the value of bringing many voices together to create one choir. Previous singing experience is not necessary.

**MUSIC - GUITAR**  
20S, 30S, & 40S  
Credit: 1 at each level

The guitar is a great instrument for making music in a wide range of settings. No previous musical experience is necessary to enter this program. In the first year, students will focus on acquiring foundational and practical skills for making music on the guitar. Students will learn to play common chord forms, become familiar with rhythmic patterns, and learn melodies aurally and from notation. In subsequent years, students will build upon their experience and skills, continuing to explore chord theory, different musical genres, and notation. Students may be placed in a class suited to their level of previous experience.

**MUSIC - CONCERT BAND**  
10S, 20S, 30S and 40S  
Credit: 1 at each level

Making music with others is an amazing community-building experience. The concert band provides the opportunity for students to develop their instrumental performance skills as an individual while in an ensemble setting. Students will learn about performance/practice procedures, technique, active listening, and accountability. There will be opportunities to explore creative expression and recording technology. All instruments are welcome. Students should supply their own instruments. A limited number of instruments are available to rent from the school. Any inquiries should be directed to the teacher.

**MUSIC - JAZZ BAND**  
10S, 20S, 30S and 40S  
Credit: 1 at each level

This performance-oriented course develops a student's skills for making music in the context of a jazz band. Jazz music has its own unique language which students will have the opportunity to explore through experience with multiple genres as an individual and in the ensemble. Students will learn about musical and linguistic vocabulary relating to jazz. The expressive art of improvisation will also be considered. While standard jazz band instruments are the norm, non-traditional instruments will be considered. Previous experience is required. All rhythm section players should expect to play an audition for placement in the band. Any inquiries should be directed to the teacher.





# CREATIVE ARTS COURSE DESCRIPTIONS

## MUSIC PRODUCTION

### MUSIC PRODUCTION 20S

Credit: 1

Students will learn to compose and think creatively through a unique method of teaching and learning. Previous music knowledge is not necessary, but helpful. Students will create their own compositions and will have access to computers with professional music software. Through artistic inquiry and creative expression, students will examine, reflect upon and develop an understanding of themselves and other cultures.

### MUSIC PRODUCTION 30S

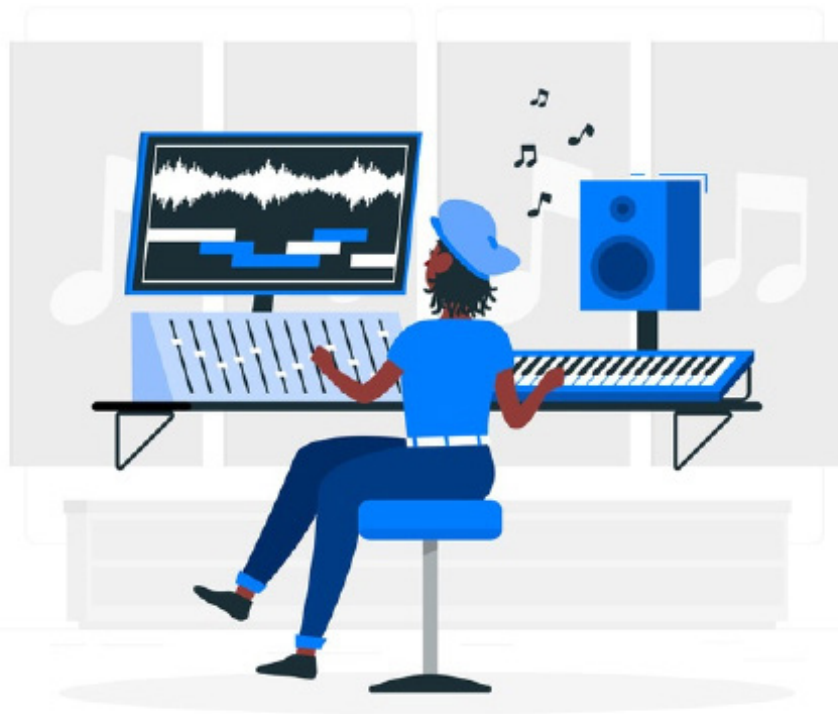
Credit: 1

Students will continue learning methods to develop their creativity. Elements of music such as rhythm, pitch, melody, timbre, and harmony will be explored in a way that is challenging and fun. Students have the opportunity to participate in recording projects.

### MUSIC PRODUCTION 40S

Credit: 1

Students will gain critical knowledge and experience to continue their growth as creative artists and if they choose, will be prepared for post-secondary music studies or the professional music industry. Students will deepen and broaden skills and understandings of communication, artistic/musical expression, cultural practices and creativity. Students will submit a portfolio of work that represents their craft, talent, and understandings.



# CREATIVE ARTS COURSE DESCRIPTIONS

## VISUAL ARTS

### VISUAL ARTS 10S

Credit: 1

Students will explore the elements and principles of art, while experimenting with a variety of media. As students learn and grow as artists, they will apply their knowledge in larger art projects that allow for individual creative expression. Art will be viewed and discussed, highlighting how art makes connections to time, place and community, and reflects identity and society. There is a written component to this course as students view, reflect, and respond to artwork.

### ART VISUEL 10S

(VISUAL ARTS 10S)

Crédit: 1

Les élèves exploreront les éléments et les principes de l'art, tout en expérimentant avec une variété de médias. Au fur et à mesure que les élèves apprennent et grandissent en tant qu'artistes, ils appliqueront leurs connaissances dans des projets artistiques de plus grande envergure qui permettent une expression créative individuelle. L'art sera vu et discuté, mettant en évidence la façon dont l'art établit des liens avec le temps, le lieu et la communauté, et reflète l'identité et la société. Il y a une composante écrite à ce cours pendant que les étudiants voient, réfléchissent, et répondent aux illustrations.

### VISUAL ARTS 20S

Credit: 1

Students will explore a variety of art mediums to develop artistic and creative processes. Students are introduced to the work of local and international artists and develop their skills through sketching and hands-on art making. Students will explore the elements and principles of art and design, the proportions of the human form, perspective and observational drawing, and sculpting and ceramics. Students learn about historical art styles as well as how to analyze context and meaning.



### VISUAL ARTS 30S

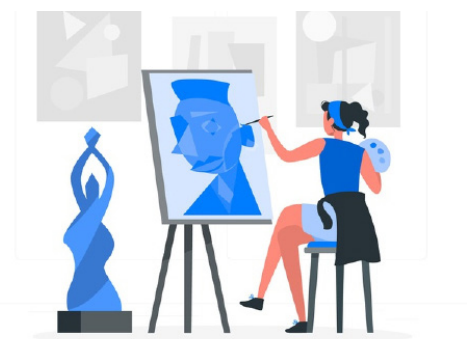
Credit: 1

Students will focus on idea development and the creative process. Students will continue developing technical skills and working with a variety of art media. The importance of design, composition, and conceptual thought will be highlighted. Students will be expected to prepare art works as well as written components, and to share and discuss their work. Students will be responsible for developing a portfolio.

### VISUAL ARTS 40S

Credit: 1

Students will be encouraged to achieve more expression through the media and techniques explored in previous courses. They will develop their own means of fulfilling assignment criteria, allowing individuals to use their personal strengths in meaningful ways. Students will be responsible for developing a portfolio.



# ENGLISH COURSE DESCRIPTIONS

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

“Literary” and “Transactional” are terms that describe the way language is used.

We use literary language for creative and imaginative purposes. Literary language is used in novels, poems, plays, and short stories.

We use transactional language out of necessity to conduct our lives. We use transactional language in biography, documentary film, journalism, advertising, resumes, proposals, reports, essays, manuals, and many other forms of communication.

## GRADE 9 ENGLISH

### ENGLISH LANGUAGE ARTS 10F

Credit: 1

Students will experience a balance of transactional and literary texts. Students will develop literacy, critical thinking, and communication skills through reading, writing, speaking, listening, viewing, and representing. Students will study novels, short prose, film, and poetry. Reading and writing fluency and stamina are key goals of this course. This course is taken in conjunction with Life/Works Exploration 15S for regular program students.

## GRADE 10 ENGLISH

### ENGLISH LANGUAGE ARTS 20F

Credit: 1

Students will undertake a rich and varied study of the human experience as it is related through novels, short prose, drama, poetry, and media. Students will further develop literacy, critical thinking, and communication skills through reading, writing, speaking, listening, viewing, and representing. Both literary and transactional modes are addressed through classroom instruction, independent study, and group work.



# ENGLISH COURSE DESCRIPTIONS

## GRADE 11 ENGLISH

### ENGLISH: COMPREHENSIVE FOCUS 30SCF

Credit: 1

Students will focus on basic reading comprehension, exploring thoughts, ideas, and experiences, responding personally and critically to texts, and enhancing the clarity and artistry of communication. Students will study and create in a variety of both literary and transactional forms and will build reading stamina through independent reading.

### ENGLISH: LITERARY FOCUS 30SLFA (Advanced)

Credit: 1

This course exposes students to a variety of text which may include novels, plays, poems, non-fiction, and short prose in order to offer a wide range of cultural, historical and literary works to students. The analytical approach to the study of literature continues to be stressed with an added emphasis on the purpose and writing style of authors as well as the writing style of students taking the course.

Students interested in taking 42AP English Literature and Composition are encouraged to register for this course.

### ENGLISH: LITERARY FOCUS 30SLF

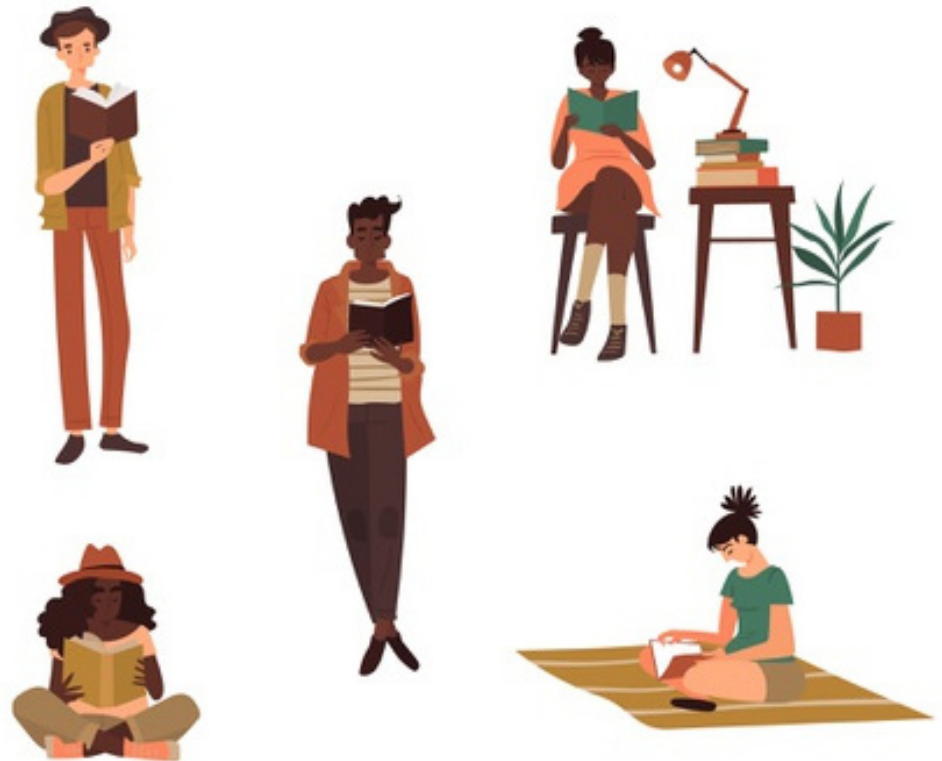
Credit: 1

Students will focus on language used for creative purposes. Through novels, poems, plays, and short stories, students will experience a wide variety of texts that explore the human condition and illustrate the beauty and artistry of language. Students will develop both creative and analytical skills with a focus on reading, writing, and speaking.

### ENGLISH: TRANSACTIONAL FOCUS 30STF

Credit: 1

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



# ENGLISH COURSE DESCRIPTIONS

## GRADE 12 ENGLISH

### ENGLISH: COMPREHENSIVE FOCUS 40SCF

Credit: 1

Students will build skills including reading comprehension, exploring thoughts, ideas, and experiences, responding personally and critically to texts, and enhancing the clarity and artistry of communication. Students will study and create a variety of both literary and transactional forms and build reading stamina through independent reading. There will be a focus on creativity, critical thinking and dialogue.

### ENGLISH: LITERARY FOCUS 40S LFA (Advanced)

Credit: 1

This course provides students the opportunity to examine and compose a variety of literary texts. Students explore properties of language to convey experience, ideas, and perspectives as they deepen their appreciation of literature. Students develop the skills required to respond to texts, to manage diverse ideas and information, to communicate effectively, and to learn about the connection between purpose and writing style.

**Students interested in taking 42AP English Literature and Composition are encouraged to register for this course.**

### ENGLISH: TRANSACTIONAL FOCUS 40STF

Credit: 1

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

### ENGLISH: LITERARY FOCUS FOCUS 40SLF

Credit: 1

Students will focus on creative, emotional language, literary texts, and using language for aesthetic purposes. Students will develop analytical skills by examining drama, film, poetry, and prose. Students will develop their powers of expression both in oral and written communication. Students will practice the skills involved in writing and speaking in a variety of styles and situations.

### ENGLISH: LITERATURE & COMPOSITION 42SAP

Credit: 1

AP English Literature and Composition is an introductory university-level literary analysis course. The course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.



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# ENGLISH AS AN ADDITIONAL LANGUAGE (EAL) COURSE DESCRIPTIONS

The EAL courses are specifically designed to meet the needs of newcomers to Canada for whom English is an additional language. The purpose of the program is to develop English language skills in the areas of listening, speaking, reading and writing. All courses listed below are offered in sheltered classroom environments.

\*Access to LAL and EAL courses is limited to those students that have been screened for this divisional program.

## EAL LITERACY STAGE 1

Credit: 1

This course is intended for students who are at emergent and beginning stages of acquiring English skills. Students will develop basic communication skills in speaking, listening, reading, and writing. Students will focus on vocabulary development and survival language for functioning in the school and the community. This is a pass/fail course.

## ELA/EAL FOR ACADEMIC SUCCESS: S4 LEARNERS

Credit: 1

This course is designed for advanced-level English as an additional language (EAL) students who wish to further develop the academic English language skills required for success in Senior Years and post-secondary education. Advanced EAL students who have studied English as a second language will benefit from integrated ELA/EAL courses, which reinforce and build proficiency in a range of language knowledge and skills required across the Senior Years curriculum and areas of postsecondary study. This course will help ensure success for advanced EAL learners in Senior 4 across a number of subject areas, with emphasis on the sciences, mathematics, and social sciences, as well as help students prepare for postsecondary study.

## EAL LITERACY STAGE 2

Credit: 1

Students will expand their essential English communication skills. Students will continue to receive some language support and will develop their speaking and listening skills, develop reading strategies, expand vocabulary, and begin to use more complex sentence structures. Students will have a variety of language opportunities and experiences to support and enhance their developing English skills. This is a pass/fail course.

## ENGLISH 10/20E

Credit: 1

Students will develop knowledge and academic language relevant to the reading and study of fiction and non-fiction texts, poetry, and drama. Emphasis is placed on developing reading, writing, and speaking skills.

Students will receive only one credit, based on their respective grade level.

## EAL LITERACY STAGE 3

Credit: 1

Students will continue to develop reading, writing, listening, and speaking skills. Students will experience varied styles and forms of reading and writing. Students will have greater opportunities to speak and listen. Students will be introduced to academic vocabulary, language skills and concepts in preparation for academic classes. This is a pass/fail course.



# ENGLISH AS AN ADDITIONAL LANGUAGE (EAL) COURSE DESCRIPTIONS

E-designated courses offered follow the Manitoba Education approved curriculum for the indicated grade level course, with significant adaptations to the curriculum goals and outcomes. E-designation facilitates English language acquisition and interpersonal communication skills, academic language proficiency, and subject area knowledge. E-designated courses recognize that students are on a continuum of language development. Credits earned can be used to meet requirements for high school graduation.

## SCIENCE 10E

Credit: 1

Students will develop knowledge and academic language relevant to the course topics of reproduction, atoms and elements, the nature of electricity, and exploring the universe.

## SCIENCE 20E

Credit: 1

Students will develop knowledge and academic language relevant to ecosystems, weather dynamics, chemistry at work, and physics in motion.

## HISTORY OF CANADA 30E

Credit: 1

Students will develop knowledge and academic language about Canada's history. Topics studied include First Peoples of Canada, pre-European contact, early explorers, New France, the British-French conflict, and Canada from Confederation to present day.

## CANADA IN THE CONTEMPORARY WORLD 10E

Credit: 1

Students will develop knowledge and academic language relevant to the diversity in Canada, democracy and governance, and the many challenges facing our country.

## GEOGRAPHIC ISSUES 20E

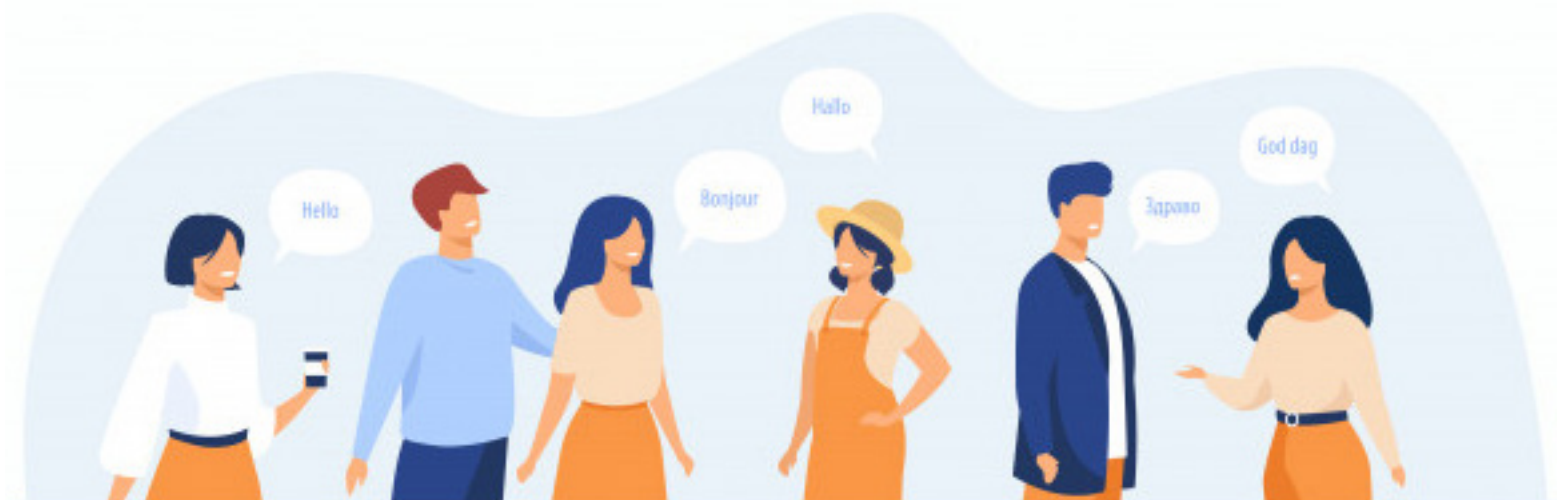
Credit: 1

Students will develop knowledge and academic language about Canada. Topics studied include Canada from a global perspective, physical and human aspects of Canada's regions, as well as Canada's natural resources, food from the land, and industry and trade. Hands-on activities and field trips are integrated into coursework.

## MATH 10E

Credit: 1

Students will develop knowledge and academic language relevant to geometry, number sense, and statistics.



# LITERACY, ACADEMICS, AND LANGUAGE (LAL)

LAL is an acronym for Literacy, Academics, and Language and describes students who are learning English as an Additional Language who had interrupted or no prior schooling. The goal of the LAL program is to help students learn English, develop basic knowledge, and improve their literacy skills for life in Canada and success in regular classrooms.

EAL stands for English as an Additional Language and is about English language programs for students with diverse language backgrounds. The term recognizes the positive process of learning another language. It is especially important in acknowledging the strengths and contributions of Manitoba's intercultural, multilingual student population. EAL refers to students whose first language is not English and who need special programs or services to improve their English proficiency and reach their potential in Manitoba's school system.

The learning goals for LAL and EAL are explained as a progression in four areas: Linguistic Competency, Contextual Applications, Intercultural Competency and Global Citizenship, and Strategic Competency





# FAMILY STUDIES COURSE DESCRIPTIONS

## FAMILY STUDIES 10S

Credit: 1

Students will explore adolescent development from the perspective of the adolescent student. Topics include building skills and knowledge in developing positive relationships to enhance personal health and wellness within the context of their own family dynamics and the community in which they live.

## FAMILY STUDIES 20S

Credit: 1

Students will focus on the skills and knowledge that parents and caregivers need, with emphasis on maternal health, pregnancy, birth, and the early years of human development. Students will learn about the developmental needs, effective care, and guidance of young children. The development of these skills and knowledge will enhance their overall well-being now as adolescents and in the future as parents and caregivers.

## FAMILY STUDIES 30S

Credit: 1

Students will focus on children's and adolescents' relationship within their families. Students will learn about developmental needs, effective care, and positive interactions with children/adolescents. The skills and knowledge that students will gain will provide them the opportunity to make informed decisions related to parenting, relationships, and families.

## FAMILY STUDIES 40S

Credit: 1

Students will explore the transition from adolescences to adulthood with the ability to examine and practice skills that help develop healthy interpersonal relationships. The skills and knowledge will provide the opportunity for students to make informed and responsible life management choices now and in the future.



# FOOD & NUTRITION COURSE DESCRIPTIONS

## FOOD & NUTRITION 10S

Credit: 1

Students focus on the individual and the relationships and influences that affect food choices. Students will examine the fundamentals of nutrition and learn how to apply the information to their lives. The course provides opportunities for students to develop safe food handling and food preparation skills in a practical setting.

## FOOD & NUTRITION 20S

Credit: 1

Students focus on the individual within the family unit and the influence that marketing and media have on family food choices. Students will gain a strong understanding of the categories of nutrients, why our bodies need them, and what foods are consumed for health and well-being. The course provides opportunities for students to further develop food preparation skills in a practical setting.

## FOOD & NUTRITION 30S

Credit: 1

Students focus on the individual within the community and Canada, including the influence regions have on our food choices and personal practices. Students will be exposed to food and production in Manitoba and examine food availability within Manitoba. Students will analyze the nutritional composition of food and reflect on their own nutritional choices. This course provides opportunities for students to apply food preparation skills in a practical setting.

## FOOD & NUTRITION 40S

Credit: 1

This course offers a critical examination of the individual as a responsible citizen. Students will explore sustainability and ethical practices within food production and access. They will examine food security and barriers that exist to achieve food security for all people. Students will investigate solutions to local and global food accessibility. This course will provide opportunities for students to apply food preparation skills in a practical setting.



# FRENCH IMMERSION COURSE DESCRIPTIONS

French Immersion students from École John Henderson Middle School and École Munroe Middle School may apply to the French Immersion Program at Collège Miles Macdonell Collegiate.

To obtain a provincial French Immersion Diploma, students in Grades 10,11 and 12 for the 2025 - 2026 school year will need to earn a minimum of 14 credits in French instruction. Grade 9 students for the 2025 - 2026 school year, will need to earn a minimum of 15 credits in French instruction throughout their time at CMMC.

## FRANÇAIS 10F FI

Crédit: 1

Les élèves seront capables de communiquer des messages à l'oral et à l'écrit avec précision et aisance. Ils seront appelés à interagir avec une variété de textes pour but de développer les compétences d'analyse et de pensée critique. Ce cours est suivi en conjonction avec le cours de vie-travail: exploration 15S pour les élèves dans le programme d'immersion.

Students will be able to communicate various messages (both oral and written) with precision and accuracy. They will interact with a variety of texts to develop their analytical and critical thinking skills. This course is taken in conjunction with vie-travail: exploration 15S.

## FRANÇAIS 20F FI

Crédit: 1

Les élèves seront exposés à une gamme d'activités littéraires et communicatives dont le but est d'approfondir leurs connaissances du français oral et écrit. Les élèves seront exposés à diverses oeuvres d'auteurs classiques et contemporains et seront capables de rédiger des textes oraux et écrits pour transmettre de l'information selon leur intention de communication. Le développement des compétences d'analyse et de pensée critique continue.

Students will be exposed to a variety of activities to deepen their knowledge of oral and written French. Students will encounter literary works of various classical and contemporary authors and will be able to create personal texts to achieve a variety of communicative goals. Students will continue to develop their analytical and critical thinking skills.

## FRANÇAIS:

### Langue et Communication 30S FI

Crédit: 1

Les élèves seront capables d'interagir avec une gamme de textes selon une double perspective: analyse du fonctionnement textuel et réaction critique. Les élèves seront par ailleurs capables de présenter et de défendre leur point de vue avec efficacité et de saisir l'essentiel du contenu d'un texte.

Students will study both literary and transactional works. They will learn to present and defend their point of view and to speak, write and synthesize with precision and accuracy.

## FRANÇAIS:

### Langue et Communication 40S FI

Crédit: 1

Les élèves seront capables d'interagir avec une gamme de textes selon une double perspective: analyse du fonctionnement textuel et réaction critique, avec une mise en relief particulière sur la capacité de créer des effets dans leurs productions orales et écrites, de faire une présentation orale et de rédiger des textes argumentatifs et/ou analytiques.

Students will be exposed to a variety of texts. Students will make formal oral presentations and will write in a variety of styles and forms.



# FRENCH IMMERSION COURSE DESCRIPTIONS

## MATHÉMATIQUES

*NOTE: To see the French Immersion course descriptions written in English, please see the description of the equivalent course (shown in brackets after course title) in their department sections.*

### MATHÉMATIQUES DE TRANSITION 10F FI

(TRANSITIONAL MATHEMATICS 10F)

Crédit: 1

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

### MATHÉMATIQUES 10F FI

(MATHEMATICS 10F FI)

Crédit: 1

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

### INTRODUCTION AUX MATHÉMATIQUES APPLIQUÉES / PRÉ-CALCUL 20SI FI

(INTRODUCTION TO APPLIED &  
PRE-CALCULUS 20S FI)

Crédit: 1

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

### MATHÉMATIQUES AU QUOTIDIEN 20SE FI

(ESSENTIAL MATHEMATICS 20SE)

Crédit: 1

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

### MATHÉMATIQUES AU QUOTIDIEN 30SE FI

(ESSENTIAL MATHEMATICS 30SE)

Crédit: 1

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

### MATHÉMATIQUES APPLIQUÉES 30SA FI

(APPLIED MATHEMATICS 30SA FI)

Crédit: 1

Le contenu du cours est contextuel et fait la promotion de l'apprentissage des techniques de résolution de problèmes basés sur le nombre et la géométrie. La technologie fait partie intégrante de l'apprentissage et de l'évaluation.



# FRENCH IMMERSION COURSE DESCRIPTIONS

## MATHÉMATIQUES

NOTE: To see the French Immersion course descriptions written in English, please see the description of the equivalent course (shown in brackets after course title) in their department sections.

**MATHÉMATIQUES  
PRÉ-CALCUL 30SPC FI**  
(PRE-CALCULUS MATHEMATICS 30SPC)  
Crédit: 1

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

**MATHÉMATIQUES  
PRE-CALCUL 30SPCA (avancée)**  
Crédit: 1

Ce cours s'appuie sur les concepts dans le cours d'introduction aux mathématiques appliquée et pré-calculs 20S. Les sujets incluent l'algèbre, les fonctions quadratiques, les fonctions inverses, et la trigonométrie.

Les élèves qui s'intéressent à suivre le cours de 42AP Calculus AB en douzième année devraient s'inscrire à ce cours et au cours de Mathématiques pré-calcul 40S avancée en onzième année.

**MATHÉMATIQUES AU QUOTIDIEN  
40SE FI (ESSENTIAL MATHEMATICS 40SE)**  
Crédit: 1

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

**MATHÉMATIQUES APPLIQUÉES  
40SA FI (APPLIED MATHEMATICS 40SA)**  
Crédit: 1

Le contenu du cours est contextuel et fait la promotion de l'apprentissage des techniques de résolution de problèmes basés sur le nombre et la géométrie. Les mathématiques appliquées requièrent la flexibilité et la responsabilité de l'élève.

**MATHÉMATIQUES  
PRÉ-CALCUL 40SPC FI**  
(PRE-CALCULUS 40S)  
Crédit: 1

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

**MATHÉMATIQUES PRÉ-CALCUL  
40SPCA (avancée)**  
Crédit: 1

Ce cours est une continuation du cours de mathématiques pré-calcul 30S avancée. Les sujets incluent la trigonométrie et fonctions circulaires avancées, les opérations sur les fonctions, les transformations et permutations et combinaisons. Les élèves qui s'intéressent à suivre le cours de 42AP Calculus AB devraient s'inscrire à pour ce cours en onzième année.



# FRENCH IMMERSION COURSE DESCRIPTIONS

## SCIENCES

NOTE: To see the French Immersion course descriptions written in English, please see the description of the equivalent course (shown in brackets after course title) in their department sections.

### SCIENCES DE LA NATURE

10F FI (SCIENCE 10F)

Crédit: 1

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

### SCIENCES DE LA NATURE

20F FI (SCIENCE 20F)

Crédit: 1

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

### BIOLOGIE 30S FI (BIOLOGY 30S)

Crédit: 1

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

### BIOLOGIE 40S FI (BIOLOGY 40S)

Crédit: 1

Ce cours aborde les thèmes suivants: les acides nucléiques, la génétique, l'évolution et la biodiversité. Ce cours met également l'accent sur l'interaction entre les sciences, la technologie et la société en abordant des questions d'actualité et des problèmes impliquant la science.

### CHIMIE 30S FI (CHEMISTRY 30S)

Crédit: 1

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

### CHIMIE 40S FI (CHEMISTRY 40S)

Crédit: 1

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

### PHYSIQUE 30S FI

(PHYSICS 30S)

Crédit: 1

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

### PHYSIQUE 40S FI

(PHYSICS 40S)

Crédit: 1

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



# FRENCH IMMERSION COURSE DESCRIPTIONS

## SCIENCES HUMAINES

*NOTE: To see the French Immersion course descriptions written in English, please see the description of the equivalent course (shown in brackets after course title) in their department sections.*

### LE CANADA DANS LE MONDE CONTEMPORAIN 10F FI

(CANADA IN THE CONTEMPORARY WORLD 10F)

Crédit: 1

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

### GÉOGRAPHIE 20F FI

(GEOGRAPHY 20F F FI)

Crédit: 1

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

### HISTOIRE DU CANADA 30F FI

(HISTORY OF CANADA 30F FI)

Crédit: 1

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

### PSYCHOLOGIE 40S

(PSYCHOLOGY 40S)

Crédit: 1

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

### HISTOIRE: LE CINÉMA, TÉMOIN DE L'HISTOIRE MODERNE 40S FI

(CINEMA AS A WITNESS TO MODERN HISTORY 40S)

Crédit: 1

L'élève étudiera le cinéma comme forme d'art et aussi comme interprète de l'histoire. La pensée historique servira à analyser des thèmes principaux de l'histoire du monde contemporain représentés dans des films du 20<sup>e</sup> siècle. L'élève engagera dans un visionnement guidé du film et fera de la recherche sur un sujet. Ensuite, on développera ses habiletés de littératie médiatique en démontrant par des moyens variés une évaluation critique de la technique et de la représentation historique du film.



# LANGUAGES COURSE DESCRIPTIONS

**Please Note** For all French Immersion courses please refer to the French Immersion listings.

French: Communication and Culture courses are intended for those students where French is not their first language.

## FRENCH COMMUNICATION & CULTURE 10F

Credit: 1

Students will develop their skills in French as a means of communication. This course serves as a follow up to middle years, and provides a foundation for future high school studies. Students will develop both oral and written communication and comprehension skills and increase their awareness of Francophone culture. They will engage in a variety of guided or independent activities to increase their language skills, strategies and knowledge of structures and vocabulary.

## FRENCH COMMUNICATION & CULTURE 20F

Credit: 1

Students will continue to develop knowledge and skills in speaking, listening, reading and writing, using an increased variety of sentence structures and vocabulary. Students will further develop strategies to support authentic communication with fluency and spontaneity. They will increase their awareness of Francophone cultures and various French-speaking communities, and work towards becoming life-long language learners.

## FRENCH COMMUNICATION & CULTURE 30S

Credit: 1

Students will continue to develop proficiency, accuracy, and spontaneity in both oral and written communication. Students will communicate and interact in French with increasing independence and enhance their understanding and appreciation of diverse French-speaking communities. Students will further develop skills as life-long language learners.

## FRENCH COMMUNICATION & CULTURE 40S

Credit: 1

Students will develop a wider appreciation of French culture and an increased knowledge of language elements. They will understand and communicate in a variety of situations with relative ease and accuracy. Students will see the value of their French education as a tool for personal, intellectual, and social growth, as well as a factor contributing to global citizenship. Students will develop a strong basis for continued academic or conversational studies as life-long learners of French.





# LANGUAGES COURSE DESCRIPTIONS

## SPANISH 10G

Credit: 1

This course is designed for students who have no previous knowledge of Spanish. Students will practice pronunciation and intonation as well as develop an extensive, practical vocabulary that will focus on oral communication. It also introduces students to the history of Spanish culture, dance, piñata making and more. It will provide glimpses of geography and culture of the Latin American countries. Students will learn to speak and communicate basic Spanish through a cultural perspective. The conversational aspect is highly encouraged. In addition, students will be introduced to Hispanic art, music, and culture. Students will be also exposed to American and European Spanish.

## SPANISH 20G

Credit: 1

This beginner course emphasizes aural-oral Spanish. Students will practice pronunciation, intonation, and will develop an extensive, practical vocabulary. Students will learn about various Spanish-speaking cultures. Students will speak in Spanish during class discussions, group work, skits, and presentations to develop confidence in newly acquired Spanish-speaking skills.

## SPANISH 30S

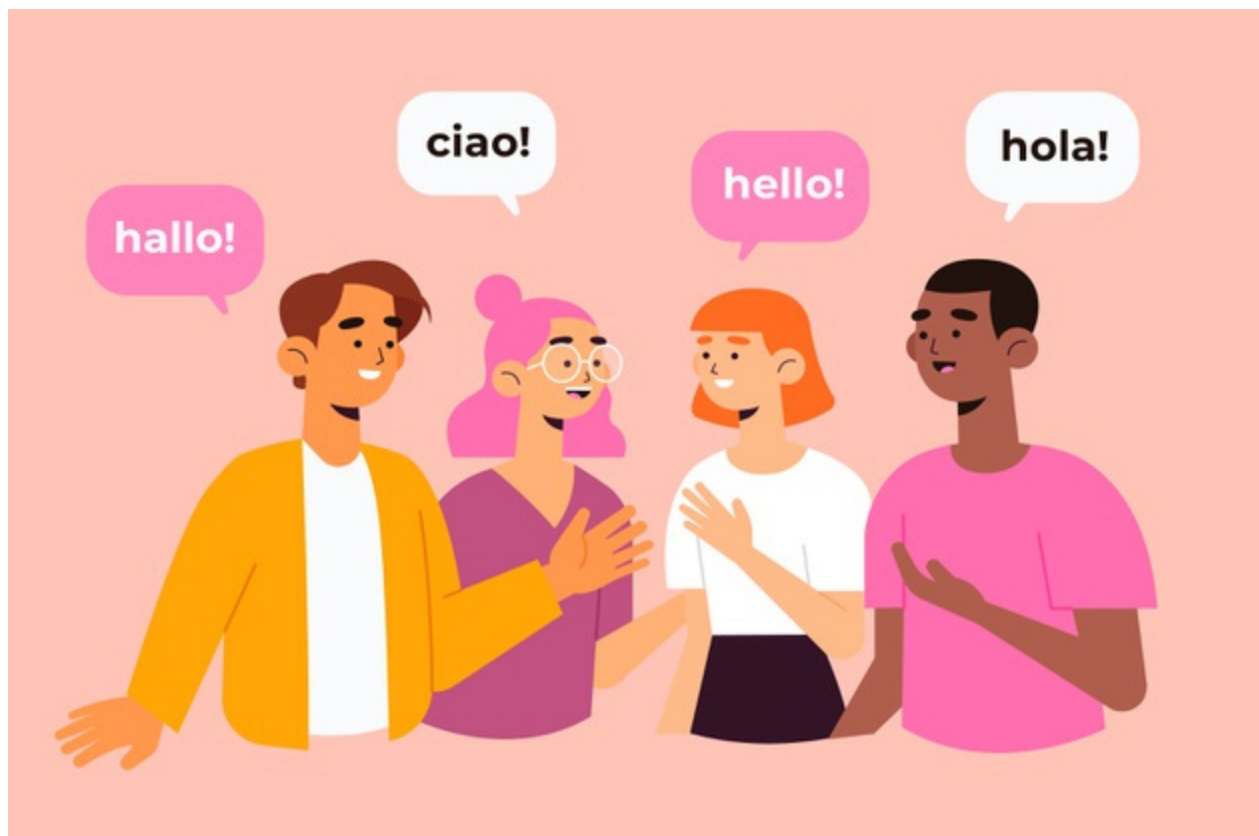
Credit: 1

Students will undertake a more detailed exploration of the language and culture of the Spanish-speaking world. Students will continue to develop fluency in oral expression as well as comprehension. Students will be able to listen, speak, read, and write at an intermediate level.

## SPANISH 40S

Credit: 1

Students will focus on Spanish culture and will be challenged to converse in Spanish every class. Students will continue to develop speaking fluency and will learn to understand a variety of written materials. Students will discover the rich cultural diversity of the Spanish-speaking world through history, architecture, music, food, politics, literature, and celebrations.



# MATHEMATICS COURSE DESCRIPTIONS

## GRADE 9 and 10 COURSES

Math is a required compulsory course from Grade 9 to Grade 12. All Math courses offered at CMMC lead to access to post secondary education. Students enrolled in any Mathematics 40S level course, write a Provincial Assessment.

The goals of our Math courses are to provide attitudes, knowledge, skills, and understandings for specific post-secondary programs or direct entry into the workforce. The Math pathways provide students with mathematical understandings and critical-thinking skills. When choosing a math course, students should consider their interests and aptitude, as well as possible future pursuits.

**\*\*GRAPHING AND SCIENTIFIC CALCULATOR USE IN MATHEMATICS** The use of technology in the study of mathematics has become more important in recent years. The graphing calculator that is recommended to be used at CMMC will be the Texas Instruments 83 Plus or Texas Instrument 84 Plus. Students who intend to take Calculus AP or Applied Mathematics in Grade 11 and 12 are recommended to have a graphing calculator.

### TRANSITIONAL MATHEMATICS 10F

Credit: 1

This course is designed to provide students with a strong mathematical foundation as they transition to high school mathematics. Students who are entering grade 9 must register for both Transitional Mathematics 10F and Mathematics 10F

### MATHEMATICS 10F

Credit: 1

Students will engage in projects, activities and classroom learning that includes the use of technology, problem solving, mental mathematics, and theoretical mathematics. This course covers a broad range of topics, providing students with foundational skills and knowledge in preparation for all possible pathways through high school mathematics. Students who are entering grade 9 must register for both Transitional Mathematics 10F and Mathematics 10F.

### INTRODUCTION TO APPLIED AND PRE-CALCULUS MATHEMATICS 20SI

Credit: 1

Students will engage in projects, activities and classroom learning that includes the use of technology, problem solving, mental mathematics, and theoretical mathematics. Topics include algebra, number sense, trigonometry, coordinate geometry, relations and functions, systems of equations, linear measurement, and geometry.

### ESSENTIAL MATHEMATICS 20SE

Credit: 1

Students will learn consumer applications, problem solving, decision-making, and spatial sense as it relates to everyday life in a technological society.



# MATHEMATICS COURSE DESCRIPTIONS

## GRADE 11 COURSES

### ESSENTIAL MATHEMATICS 30SE

Credit: 1

Students will explore personal finance, problem solving, consumer applications, and spatial sense as they relate to everyday life in a technological society.

### PRE-CALCULUS MATHEMATICS 30SPA (Advanced)

Credit: 1

This course builds on the concepts learned in Introduction to Applied and Pre-calculus Mathematics 20S. Topics of study include algebra, quadratic functions, absolute value, reciprocal functions, and trigonometry.

Students interested in taking the 42AP Calculus AB in their Grade 12 year are encouraged to register for this course as well as the Pre-Calculus Mathematics 40S Advanced course in their Grade 11 year.

### APPLIED MATHEMATICS 30SA

Credit: 1

This course is intended for students considering post-secondary studies who do not require a study of theoretical calculus. It is context-driven and promotes the learning of numerical and geometrical problem-solving techniques as they relate to the world around us.

### PRE-CALCULUS MATHEMATICS 30SP

Credit: 1

This course is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies that require the study of theoretical calculus. Topics include expressions and equations, sequences and series, trigonometry, and relations and functions with a focus on theoretical mathematics at a high level.



# MATHEMATICS COURSE DESCRIPTIONS

## GRADE 12 COURSES

### ESSENTIAL MATHEMATICS 40SE

Credit: 1

Students will explore consumer applications, problem solving, decision making and spatial sense as it relates to everyday life in a technological society. The major topics are finance, statistics, and career life.

### APPLIED MATHEMATICS 40SP

Credit: 1

This course is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies that do not require the study of theoretical calculus. Topics include financial mathematics, logical reasoning, probability, relations and functions and design measurement with a focus on contextual applications.

### PRE-CALCULUS MATHEMATICS 40SP

Credit: 1

This course is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies that require the study of theoretical calculus. Topics include transformations, function operations, trigonometry, polynomials, rational and radical functions, exponential and logarithmic functions, permutations, combinations, and the binomial theorem with a focus on theoretical mathematics at a high level.

### CALCULUS (AB) 42S AP (Advanced Placement)

Credit: 1

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

### PRE-CALCULUS MATHEMATICS 40SPA (Advanced)

Credit: 1

This course is a continuation of Pre-Calculus Mathematics 30S Advanced. Topics in this course include advanced trigonometric and circular functions, operations on functions, transformations and permutations and combinations.

**Students interested in taking the 42AP Calculus AB are encouraged to register for this course in their Grade 11 year.**



# PHYSICAL EDUCATION COURSE DESCRIPTIONS

## GRADE 9

### PHYSICAL EDUCATION / HEALTH EDUCATION PEH10F

Credit: 1

This is a compulsory course scheduled daily in one semester. Students will participate in a wide range of activities including team, individual, and racquet sports, as well as alternative pursuits. In addition to these activities, compulsory topics including personal and social management, fitness development, heart fitness, substance use and abuse prevention, human sexuality, muscle physiology, and First Aid will be covered.

## GRADE 10

### PHYSICAL EDUCATION / HEALTH EDUCATION PEH20F

Credit: 1

This is a compulsory course scheduled daily in one semester. Students will participate in a variety of physical activities including team sports, alternative pursuits, and racquet sports. During the activity blocks students will have the opportunity to choose from several activities. Compulsory topics include resistance training, human sexuality, nutrition, cardiopulmonary resuscitation, and stress management

## GRADE 11 & 12

### PHYSICAL EDUCATION / HEALTH EDUCATION

PEH30F & PEH40F

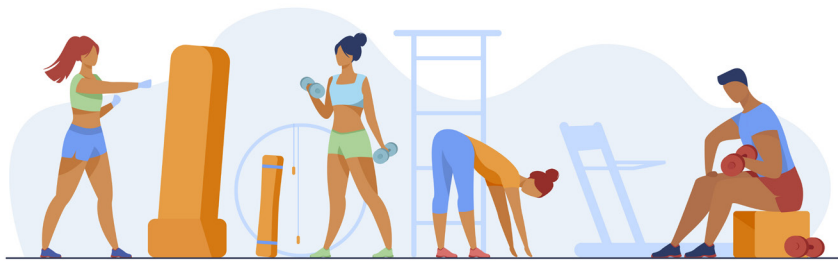
Credit: 1

The 30F & 40F courses will be assessed as complete (CO) or incomplete (IN) to earn the required credit.

Students will develop habits that promote healthy, active futures. Students will develop personal fitness, leadership qualities, sport skills, and explore different lifetime activities.

This course is scheduled every second day in one semester. Students will complete a 55-hour physical activity practicum of moderate to vigorous activity outside of class time. In class, students will have 27.5 hours of activity time which includes options of fitness training, team and individual sports, dance, and a variety of field trips.

In the remaining hours of contact time, students will explore the curricular health modules.



# SCIENCE COURSE DESCRIPTIONS

## SCIENCE 10F

Credit: 1

Students will be introduced to four areas of science: Biology (reproduction), Chemistry (atoms and elements), Physics (the nature of electricity) and Astronomy.

## SCIENCE 20F

Credit: 1

Science 20F introduces students to four areas of science: Chemistry (chemical reactions), Physics (motion), Biology (ecology) and weather.

## BIOLOGY 30SA (Advanced)

Credit: 1

This course is designed to help students develop a conceptual framework for modern biology and an appreciation of science as a process. Students will be involved in laboratory work with the goal of developing an understanding of concepts including the science of life, evolution, energy transfer, interdependence in nature and science, and the anatomy and physiology of many of the major human body systems.

**Students interested in taking 42AP Biology are encouraged to register for this course in their Grade 11 year.**

## BIOLOGY 30S

Credit: 1

Students will develop an interest in biology while focusing on the structure and function of the human body. Students will explore topics including wellness and homeostasis, digestion and nutrition, excretion, circulation, immunity, and response.

## BIOLOGY 40S

Credit: 1

Students will focus on concepts and common themes in biology, including DNA, mechanisms of inheritance, evolution, and biodiversity. Students will apply problem solving skills and critical thinking to important biological concepts.

Biology 30S is not required to register for Biology 40S. This course is also offered online.

## BIOLOGY 42S AP (Advanced Placement)

Credit: 1

AP Biology is an introductory university-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.



# SCIENCE COURSE DESCRIPTIONS

## CHEMISTRY 30S

Credit: 1

*A scientific calculator is required.*

Students will receive an introduction to chemistry and a basis for further studies in the field. A good grasp of mathematics is critical. Students will study a variety of topics, including the physical properties of matter, chemical reactions, and organic chemistry.

## CHEMISTRY 30SA (Advanced)

Credit: 1 at each level

*A scientific calculator is required.*

This course is designed to expose students to topics in Chemistry such as the physical properties of matter, gases and the atmosphere, chemical reactions, solutions, as well as organic chemistry. This course will also incorporate some units from the Chemistry 40S curriculum.

**Students interested in taking 42AP Chemistry are encouraged to register for this course in their Grade 11 year.**

## CHEMISTRY 40S

Credit: 1

*A scientific calculator is required.*

Students will study a variety of topics, such as atomic structure, kinetics, acids and bases, and electrochemistry.

## CHEMISTRY AP 42S

Credit: 1 at each level

*A scientific calculator is required.*

AP Chemistry is an introductory university-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy. Students explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

## PHYSICS 30S

Credit: 1

*A scientific calculator is required.*

Students will study the motion of matter and energy. Students will receive a foundation for further studies in the field of Physics. Students should have a good background in mathematics and problem solving.

## PHYSICS 30SA (Advanced)

Credit: 1

*A scientific calculator is required.*

Physics combines math with an inquiring mind to analyze physical phenomena. Students will procure an understanding of basic physical concepts while developing their problem-solving skills. Major areas of focus include graphical analysis, equation development, trigonometry, vectors, waves, and sound.

**Students interested in taking 42AP Physics are encouraged to register for this course in their Grade 11 year.**

## PHYSICS 40S

Credit: 1

Students will study the motion of matter and energy. Students will receive a foundation for further studies in the field of Physics. Students should have a good background in mathematics and problem solving.

## PHYSICS 1 42S AP (Advanced Placement)

Credit: 1

*A scientific calculator is required.*

AP Physics 1 is an algebra-based, introductory university-level physics course. Students cultivate their understanding of physics through inquiry-based explorations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound. Students build understanding through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore these concepts.



# SOCIAL SCIENCES COURSE DESCRIPTIONS

## CANADA IN THE CONTEMPORARY WORLD 10F

Credit: 1

Grade 9 students focus on the opportunities and challenges facing Canada today, beginning with an overview of demographics, geography, and political organization. They examine the evolving stories of interaction among the people of Canada, and the influence of the land on the development of Canada. They explore the historical and contemporary complexities of citizenship and identity, considering the challenges and opportunities that emerge when groups with differing identities and perspectives interact with one another. Contemporary Canadian questions and issues are examined within the global context. Through inquiry, they are enabled to become informed decision-makers actively involved in their local, national, and global communities. Important student values and attitudes that are developed in Grade 9 include a commitment to democratic values, a willingness to take appropriate and ethical social action, and an appreciation of cultural diversity. Focus skills include critical thinking, informed decision making, consensus-building, and skills related to negotiation in the exercise of active and responsible citizenship.

## GEOGRAPHIC ISSUES OF THE 21ST CENTURY 20F

Credit: 1

In Geographic Issues of the 21st Century, students focus on a variety of issues and challenges of the contemporary world. They explore the nature of geography and develop skills related to geographical thinking. Students use the methods and tools of geography to examine issues and problems and to propose solutions. They study concepts related to ownership and development of natural resources, production and distribution of food, development of industry and trade, and increasing urbanization. Students consider these issues in the context of Canada, North America, and the world. Through their study, students become aware of the importance of the environment, stewardship, and sustainable development, as well as the social, political, and economic implications of their personal choices.

## HISTORY: AMERICAN 20G

Credit: 1

Students will learn about major events in American history and how they have shaped the United States of today. Students will study founding documents such as the Declaration of Independence and the Bill of Rights, as well as watershed moments like the Civil War and the upheavals of the 1960s. Students will also study contemporary socio-economic and political issues. Students will explore multiple perspectives, evaluate the reliability of research sources, and use historical evidence to support written arguments.

## HISTORY OF CANADA 30F

Credit: 1

Guided by essential questions, students focus on the history of Canada from pre-contact times to the present. Through this process, students think historically while exploring the following five themes in Canadian history: First Nations, Métis, and Inuit Peoples, Governance and Economics, French-English Duality, Canada and the World, and Identity, Diversity, and Citizenship. Historical thinking concepts and skills are embedded throughout the curriculum and provide a foundation for historical inquiry. The curriculum also identifies skills in research, critical thinking, and communication that are required to develop historical thinking. Students will use these skills to understand how the past has shaped the Canada of today.





# SOCIAL SCIENCES COURSE DESCRIPTIONS

## PSYCHOLOGY 40S

Credit: 1

*Grade 11 students may register for this course*

Students will gain basic understanding of the many factors which influence how we feel, think and act. Themes will include research, workings of the brain, personality, learning, memory, states of consciousness, and psychological disorders. Students planning to study Psychology in university will receive a comprehensive introduction to the discipline. All students will learn more about themselves and others.

*This course is also offered online.*

## GLOBAL ISSUES: CITIZENSHIP AND SUSTAINABILITY 40S

Credit: 1

*Grade 11 students may register for this course.*

This course provides students with the opportunity to study and understand the complex and often critical global issues that societies face today. Students apply concepts related to sustainability, learn about the interdependence of environmental, social, political, and economic systems and develop competencies for thinking and acting as ecologically literate citizens committed to social justice. Students will conduct inquiry into the social, political, environmental and economic impact of a variety of contemporary global issues such as media, consumerism, the environment, poverty, wealth, and power, oppression and genocide, health and biotechnology, gender politics, social justice and human rights, Indigenous Peoples, and peace and conflict.

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

Credit: 1

*Grade 11 students may register for this course*

Students will learn about the cultures, traditions, and world views of Indigenous peoples in Canada through the exploration of history as well as contemporary issues. Students will exercise critical thinking and inquiry skills, and engage in discussion to gain a better understanding of some of the past and present realities facing Canadian Indigenous peoples. There will be focus on education and building relationships as tools to reconciliation.

## PERFORMANCE PSYCHOLOGY 31G (Healthy Lifestyles)

Credit: 1

Students will investigate the relationship between mental skill development and enhancing performance. Students will become aware of how their mental and emotional skills, attitudes, perspectives, strategies and processes can lead to optimal performance in competition, training, well-being, and personal growth.

*It is recommended that students are currently participating in sport or and/or performing arts.*

## LAW 40S

Credit: 1

*Grade 11 students may register for this course*

Students will explore the concepts of law in Canada. Students will develop their understanding of the Canadian Charter of Rights and Freedoms, the Canadian legal and criminal justice system, and types of law such as family law, civil law, and criminal law. The course includes regular group discussion of current issues and cases which will allow students to use critical thinking and communication skills to develop informed opinions on legal issues. This course will be of interest to those students pursuing a career in law enforcement or the criminal justice system.

## HISTORY: WESTERN CIVILIZATION 40S (H40SWC-1136)

Credit: 1

This course involves a topical survey of the history and civilizations of Western Europe. Take a wild ride through thousands of years of history looking at topics like ancient Egypt, Greece and Rome and moving through to medieval life, renaissance values, reformation ideas and industrialization. Recent twentieth century ideas and trends will also be studied.



# TECHNOLOGY EDUCATION COURSE DESCRIPTIONS

## COMPUTER SCIENCE

### COMPUTER SCIENCE 20S

Credit: 1

*Note: This course is open to grade 9 and 10 students*

Students will learn the basic concepts of Computer Science and learn to program and debug in languages such as Scratch, C# and JavaScript. Using various platforms and resources, students will explore interactive games and app development in both individual and collaborative contexts. They will learn how to design and plan their own original web games and interactive applications using their own interests to maximize creativity and progress.

### COMPUTER SCIENCE 30S

Credit: 1

Students will learn the fundamentals of Computer Science and project development. They will learn to program in languages such as Python and C# and experiment with game development in environments such as Unity. They will engage in independent and collaborative projects to create programs, games and applications of personal relevance. Students will learn how to manage and structure the different layers in projects such as front-end design and back-end programming while focusing on user experience and following professional practices. Students' own interests and curiosities will guide their projects to maximize creativity and progress.

### COMPUTER SCIENCE 40S

Credit: 1

Students will engage in collaborative projects as creators of technology to develop computer knowledge and skills like creative thinking and problem solving. Using multiple tools, platforms, and languages, students will practice computational thinking, explore computer-related career paths, and explore professional tools that foster creativity and collaboration. Projects and problems are guided by student interest and may include app development, cyber security systems, and AI simulations.



# TECHNOLOGY EDUCATION COURSE DESCRIPTIONS

## GRAPHIC COMMUNICATION TECHNOLOGY

### GRAPHIC COMMUNICATION TECHNOLOGY 10G

Credit: 1

This course introduces students to the fundamentals of graphic design and communication. Using industry-standard software, students will create digital designs, edit photos, and explore typography, color theory, and composition. Hands-on projects will teach design principles and basic printing techniques, helping students bring their ideas to life. Ideal for beginners, this course fosters creativity, problem-solving, and attention to detail, offering a strong foundation for future studies in design and media. No experience is required—just creativity and curiosity!

### GRAPHIC COMMUNICATION TECHNOLOGY 20G

Credit: 1

In this course, students will dive into the world of 3D modeling, animation, and motion graphics, unlocking their creative potential through exciting, practical projects. They'll explore the intricacies of production processes and industry practices, turning their ideas into digital reality. With hands-on experience, students will refine their skills, blending creativity with technical expertise to bring their visions to life.

The course encourages creative exploration while building a solid foundation in advanced graphic techniques, empowering students to push the boundaries of design.

### GRAPHIC COMMUNICATION TECHNOLOGY 30S

Credit: 1

In this course, students will continue to develop their skills across all areas of graphic design, motion design, 3D modeling, and animation, with the freedom to explore their own interests through personalized projects. Whether working on image editing, digital drawing with tablets, layout design, or advanced animation techniques, students will deepen their understanding and creativity. They'll experiment with different tools and techniques to create unique, real-world projects that challenge their skills and push the boundaries of design.

### GRAPHIC COMMUNICATION TECHNOLOGY 40S

Credit: 1

In this final course, students will have the freedom to explore every aspect of graphic design, motion design, 3D modeling, and animation. They will work on self-directed projects that reflect their personal interests and push their creative boundaries. Students will refine their skills in areas like digital drawing, image editing, layout design, 3D modeling, and advanced animation, producing high-quality work that demonstrates their technical proficiency and creativity. This course is designed for students to hone their unique style, develop a strong portfolio, and experiment with cutting-edge design techniques, setting them up for success in future design studies or careers.



# TECHNOLOGY EDUCATION COURSE DESCRIPTIONS

## DRAFTING DESIGN TECHNOLOGY

### DRAFTING DESIGN TECHNOLOGY 10G

Credit: 1

Students will sample manufacturing and engineering with a focus on design drafting technologies. Students will explore basic concepts, discover technical sketches, and create computer-generated 3D models using project-based activities and design challenges.

### TECHNOLOGIE DU DESSIN INDUSTRIEL 10G

(DRAFTING DESIGN  
TECHNOLOGY 10G)

Credit: 1

Le dessin industriel est la discipline qui vise la création d'objets à la fois fonctionnels et esthétiques en combinant les éléments artistiques et technologiques.

### DRAFTING DESIGN TECHNOLOGY 20G

Credit: 1

Students will further explore manufacturing and engineering processes using drafting design technologies with a focus on developing working drawings. Students will work towards becoming comfortable with multiple Computer-Aided Drafting (CAD) programs. The emphasis will be on project-based activities with opportunities to engage with their own 3D printed designs.

### DRAFTING DESIGN TECHNOLOGY 30S

Credit: 1

Students will build on and apply their knowledge of manufacturing and engineering processes to create a major design engineering project. Students will create prototypes, models and technical drawings using a variety of Computer-Aided Drafting (CAD) programs.

### DRAFTING DESIGN TECHNOLOGY 40S

Credit: 1

Students will prepare for the transition to industry or post-secondary education in a drafting-related field. Students will apply their drafting design technology skills to a major architectural project using AutoCAD. The focus of this course is the design of a residence.

