

Huron Heights Secondary School

Course Calendar 2025-2026

(Students entering Grade 9 in Fall 2023 or earlier)

Principal: Ms. J Bistolas 1825 Strasburg Road
Vice-Principals: Ms. C Bamber Kitchener, Ontario N2R 1S3
Mr. T Gerard 519-896-2631
<http://hrh.wrdsb.ca>
Head of Guidance: Ms. S Hooisma



ONTARIO SECONDARY SCHOOL DIPLOMA

In order to earn an Ontario Secondary School Diploma a student must:

- earn 30 credits (18 compulsory and 12 elective credits)
- complete 40 hours of community involvement
- meet the provincial secondary school literacy diploma requirement through successful completion of either the Ontario Secondary School Literacy Test (OSSLT) or the Ontario Secondary School Literacy Course (OSSLC)
- complete two online learning credits. An opt-out form can be completed to waive the requirement

Credit Requirements

Compulsory Credits:

Students must earn the following 18 compulsory credits in order to obtain the Ontario Secondary School Diploma:

- 4 credits in English* (1 credit per grade)
- 3 credits in Mathematics (at least 1 credit in grade 11 or 12)
- 2 credits in Science
- 1 credit in French as a Second Language
- 1 credit in Canadian History
- 1 credit in Canadian Geography
- 1 credit in the Arts
- 1 credit in Health and Physical Education
- 0.5 credit in Civics
- 0.5 credit in Career Studies
- 3 additional credits, consisting of 1 credit from each of the following groups:
 - ❖ **Group 1:** English (including the Ontario Secondary School Literacy Course), French as a second language**, classical languages, international languages, Indigenous languages, Canadian and world studies, Indigenous studies, family studies, social sciences and humanities, guidance and career education, cooperative education***
 - ❖ **Group 2:** French as a second language**, the arts, business studies, health and physical education, cooperative education**
 - ❖ **Group 3:** French as a second language**, computer studies, Science (Grade 11 or 12), technological education, cooperative education***

*The Grade 11 English: Understanding Contemporary First Nations, Métis and Inuit Voices course meets the Grade 11 English compulsory credit requirement.

**A maximum of 3 credits in English as a Second Language (ESL) or English literacy development (ELD) may be counted towards the 4 compulsory credits in English, but the fourth must be a credit earned for a Grade 12 compulsory English course.

***A maximum of 2 credits in French as a second language may count as additional compulsory credits, 1 credit from Group 1, and 1 credit from either Group 2 or Group 3.

****A maximum of 2 credits in cooperative education may count as additional compulsory credits, selected from any of Groups 1, 2 or 3

Elective Credits:

In addition to the 18 compulsory credits, students must earn 12 elective credits which may include up to 4 credits earned through approved dual credit courses.

Community Involvement Requirements and Procedures

1. Every student must complete 40 hours of community involvement.
2. Select volunteer activities. For direct assistance contact:
 - Volunteer Waterloo Region (519-742-8610) or Cambridge Volunteer Bureau (519-623-1340) Website: www.volunteerwr.ca
3. In consultation with parents, contact the person or organization where you plan to volunteer.
4. Please be sure to have the contact information for your community sponsor to include when submitting these hours..

Ontario Secondary School Literacy Test & Ontario Secondary School Literacy Course

All students who enter grade 9 in the 2000 - 2001 school year or in subsequent years must successfully complete the Ministry literacy requirement in order to earn an Ontario Secondary School Diploma (OSSD). This may be accomplished by either successfully passing the Ontario Secondary School Literacy Test (OSSLT) or the Ontario Secondary School Literacy Course (OSSLC). The standard method for assessing the literacy skills of students in Ontario for purposes of meeting the literacy requirement for graduation is the OSSLT. Students will normally be administered the literacy test when they are in grade 10. The test is based on Ontario curriculum expectations for language and communication, particularly reading and writing, up to and including grade 9. There is no limit to the number of times the test may be re-taken. The OSSLC has been developed to provide students who have been unsuccessful on the test with intensive support in achieving the required reading and writing competencies, and with an alternative means of demonstrating their literacy skills.

Online Learning Graduation Requirement – Students must complete two online learning credits as part of the 30 credits needed to graduate. Parents and guardians may choose to have their child opt out of the mandatory online learning courses by submitting the completed WRDSB Online Learning Graduation Requirement Opt-Out form to the school's Guidance Office.
<https://www.wrdsb.ca/wp-content/uploads/WRDSB-Online-Learning-Opt-Out-Form-Fillable.pdf>

OTHER SECONDARY SCHOOL CERTIFICATIONS

Requirements for the Ontario Secondary School Certificate

The Ontario Secondary School Certificate will be granted, on request, to students who leave school before earning the Ontario Secondary School Diploma provided they have earned a minimum of 14 credits distributed according to Ministry policy.

Requirements for the Certificate of Accomplishment

Students who leave school before fulfilling the requirements for the Ontario Secondary School Diploma or the Ontario Secondary School Certificate may be granted a Certificate of Accomplishment. This certificate may be a useful means of recognizing achievement for students who plan to take certain vocational programs or other kinds of further training. Students who return to school to complete additional credit and non-credit courses will have their transcript updated but will not be issued a new Certificate of Accomplishment.

GENERAL COURSE INFORMATION

Definition of a Credit

A credit is recognition of the successful completion of a course for which a minimum of 110 hours is scheduled. A credit is granted to a student by the principal of a secondary school on behalf of the Minister of Education.

Course Coding System

Fifth Character of Course Codes

Grades 9 and 10: 'D' Academic/Single Streamed, 'O' Open, 'W' De-streamed

In order to ensure equity of access to grade 11 for all students, all courses at the grade 9 and 10 level will be taught as Destreamed or Academic/Single-Streamed. This practice ensures that all students leaving grade 10 have the opportunity to pursue the pathway of their choice.

- De-streamed and Open courses provide a variety of teaching and assessments designed to suit all learners.
- Academic/Single-Streamed courses develop students' knowledge and skills through theory and abstract problems and tend to lead to College and University programming.

Grades 11 and 12: 'C' College, 'E' Workplace, 'M' University/College, 'O' Open, 'U' University

- University-level courses (U) courses** extend quickly from prerequisite concepts and introduce students to a range of new knowledge and skills needed for post-secondary entrance requirements. These courses are important for giving students access to university and many college pathways.
- University/College-level (M) courses** revisit and rebuild prerequisite concepts. Both theory and practical applications of knowledge are covered. These courses give students access to many general and unspecialized post-secondary pathways in university, college and apprenticeship programs.
- College-level (C) courses** revisits prerequisite concepts and also include additional fundamental theory, critical thinking, research and problem solving skills. These courses are designed to prepare students for meeting the prerequisites for post-secondary pathways in College.
- Open-level (O) courses** are designed to broaden student's knowledge and skills in subjects that reflect their interests. These courses are not designed with entrance requirements for college, university or workplace pathways in mind and do not qualify as prerequisites for 4C/M/U courses in the same subject area.
- Workplace (E) courses** focus on fundamental skills and knowledge needed in work and everyday life. Students should carefully consider the prerequisite courses needed for their chosen post-secondary school, apprenticeship or career pathway before selecting workplace preparation courses to ensure they do not unintentionally create barriers to post-secondary pathways.

Minimum Course Requirements

Grade	Minimum Day School Course Load	Additional Details
9	8	In grades 9 and 10, all students will select a full course load of eight credit courses unless there are exceptional circumstances approved by the Principal.
10	8	
11	8	Students are encouraged to select eight courses. Students with less than 30 credits are expected to carry four credits for each semester. If a student takes a course with extra credit in Summer School, a Spare may be possible.
12	6 or 7	It is recommended that students take the number of credits needed to fulfill the OSSD compulsory credit requirements. A minimum of three courses each semester unless they exceed the 34 credit threshold.

CHARGING COURSE FEES

All basic materials essential for the completion of a program are made available to students at no cost to students. It is the policy of the WRDSB to acknowledge that students are entitled to an education that ensures they achieve their full potential through the equitable and appropriate allocation of funds provided by the Ministry of Education; Enhanced education opportunities for all students are made available through shared responsibilities with parents and guardians and other community resources. Students, families and caregivers requiring financial assistance should contact a staff member. The staff member will ensure that the student's issue is dealt with in an appropriate and confidential manner.

WHAT IS CO-OP?

In grades 11 and/or 12 students may explore the world of work through cooperative education. After examining personal interests and strengths, studying workplace safety, and developing interview skills, students will experience the workplace for the remainder of the semester. It is important to note students **MUST** have their own transportation. Students may earn 2, or 4 credits. Students may take co-op more than once and explore different careers

WHAT ARE DUAL CREDITS?

Dual Credits are offered in conjunction with Conestoga College and the WRDSB. Current Dual Credit programs include Automotive Service Technician Baking, Masonry, Community Care, Construction, Culinary, Early Childhood Education, Fundamentals, Electrical, Mechanical Trades (Machining, Plumbing, Heating and Air Conditioning), Media and Design, Robotics and Truck and Coach Technician and Welding Please see your guidance counsellor for more information. All programs are pending approval at publication.

WHAT IS SPECIALIST HIGH SKILLS MAJOR (SHSM)?

Huron Heights offers a Specialist High Skills Major in:

- **Arts and Culture**
- **Environment**
- **Health and Wellness**
- **Sports**

This program offers students the opportunity to explore a specific community, economic and/or industry sector of interest and to acquire skills and experiences within that sector, preparing them for post-secondary destination in one of four pathways: Apprenticeship, College, University or the Workplace. The program includes:

- a defined bundle of grade 11 and 12 credits
- two credits in cooperative education
- sector recognized certification (e.g. CPR, First Aid, WHMIS, etc.)
- experiential learning and "Reach Ahead" opportunities (e.g. guest speakers, facility visits, job shadowing, etc...)

WHAT IS THE 34 CREDIT THRESHOLD?

The Ministry of Education allows students to take up to 34 credits. Thirty credits are required for graduation so this would allow for an additional 4 credits. There are some exceptions, for example, students with an IEP. See your Guidance Counsellor for more information.



CHOOSE YOUR COURSES CAREFULLY

High School Graduation Requirements

If you started Grade 9 in 2024 or in later, below is the list of requirements you need to earn your OSSD and graduate from high school in Ontario

40 Hours of Community Involvement

Students must participate in activities that meet requirements as outlined in the [Ministry Memo](#).

Provincial [Literacy Requirement](#)

Most students complete the Ontario Secondary School Literacy Test in Grade 10

Can be met through successfully completing the Ontario Secondary School Literacy Course

Earn at least [2 Online Learning Credits](#)

The 2 credits are included in the 30 credits required to earn the OSSD.

Families may opt out of this requirement.

Earn 30 Credits Total - 17 Compulsory Credits & 13 Optional Credits

17 Compulsory Credits

- 4 credits in English (1 credit per grade)
- 3 credits in Mathematics (at least 1 credit in Grade 11 or 12)
- 2 credits in Science
- 1 credit in Technological Education (Grade 9 or 10)
- 1 credit in Canadian History (Grade 10)
- 1 credit in Canadian Geography (Grade 9)
- 1 credit in the Arts
- 1 credit in Health and Physical Education
- 1 credit in French as a second language
- 0.5 credit in Career Studies
- 0.5 credit in Civics and Citizenship
- 1 credit from the [STEM-related course group](#)

Note: The Grade 11 English: Understanding Contemporary First Nations, Métis and Inuit Voices course is used to meet the Grade 11 English compulsory credit requirement (NBE3C/E/U)

13 Optional Credits

Students must earn 13 optional credits by successfully completing courses offered in their school's program and/or found in the course calendar. Optional credits may include up to four credits earned through approved [dual credit programs](#).

STEM-related course group

Of the 17 compulsory credits, you must complete 1 credit from the following group:

- Business Studies
- Computer Studies
- Cooperative Education
- Mathematics (in addition to the 3 compulsory credits currently required)
- Science (in addition to the 2 compulsory credits currently required)
- Technological Education (in addition to the 1 compulsory Grade 9 or 10 credit)

* Please see the Ontario Ministry of Education [High School Graduation Requirements](#) page for up to date information.

DUAL CREDIT COURSE OPTIONS - COLLEGE DELIVERY

SEMESTER	PROGRAMS & COURSES	myBlueprint
Exploring The Trades 2 high school credits + 2 college credits; One day/week (day depends on College schedule)		
<i>*Grade 12 student wanting to explore trades at the college level. Experience helpful but not required.</i>		
1	ETT - Baking Techniques	Waterloo
1	ETT - Culinary (Kitchen Production)	Waterloo
1	ETT - Construction (Subject to change; students will explore 2 trade areas) Plumbing, Welding, Electrical, HRAC, Interior Carpentry, Exterior Carpentry	Reuters
2	ETT - Baking Techniques	Waterloo
2	ETT - Culinary (Kitchen Production)	Waterloo
2	ETT - CNC Programming & Machining	Reuters
2	ETT - Construction (Subject to change; students will explore 2 trade areas) Plumbing, Welding, Electrical, HRAC, Interior Carpentry, Exterior Carpentry	Reuters
2	ETT - Masonry (Condensed Delivery-May/June)	Waterloo
2	ETT - Robotics & Mechatronics	Reuters
College Apprenticeship Prep Program 2 high school credits + 2 college credits; May and June ONLY (full-time)		
<i>*Grade 12 student pursuing an apprenticeship. Some experience (courses, coop, work, etc.) necessary.</i>		
2	CAPP - Automotive Service Technician	Guelph
2	CAPP - Welding	Reuters
2	CAPP - Truck & Coach	Guelph
Accelerated Level 1 OYAP 2 high school credits + 2 college credits		
<i>*Graduating student entering an apprenticeship after high school. Industry connection required.</i>		
2	Level 1 - Automotive Service Technician (310S)	
2	Level 1 - Brick & Stone (401A)	
2	Level 1 - Truck & Coach (310T)	
2	Level 1 - General Machinist (429)	
2	Level 1 - Plumber (306A)	
2	Level 1 - Electrician (309A)	
2	Level 1 - Refrigeration A/C Systems Mechanic (313A)	
2	Level 1 - General Carpenter (403A)	

College Pathway (Friday)

Each course is 1 high school credit + 1 college credit (maximum 2 courses per semester); **One day/week (Friday)**

**Grade 12 students pursuing college in these areas of study. Can also be taken for general interest. These are recommended pairings.*

1	Esthetician-Basic Manicure Techniques AM PSW Professional Practice PM	Doon	Semester 1 DAWAY1
1	Canadian Justice System AM Crime Scene Investigation PM		
1	ECE The Early Years AM ECE Foundations of Curriculum PM		
1	Psychology Today AM 1 credit can be combined with a PM class		
1	Media Design A AM Media Design B PM		
2	ECE The Early Years AM ECE Foundations of Curriculum PM	Doon	Semester 2 DAWAY2
2	Psychology Today AM Criminology PM		
2	Media Design A AM Media Design B PM		
2	Canadian Justice System AM Security Guard Licencing PM		
2	Digital Imaging (Photography & Photoshop) AM Photojournalism PM		
2	Cabinetmaking AM 1 credit can be combined with a PM class		

***Students must follow up with their Guidance Counsellor to complete an application to Dual Credit.**

All college pathway options are subject to change based on college scheduling. A confirmed list of courses will be available in the Spring.

***Pathways Website https://schools.wrdsb.ca/pathways/dual_credit/**



OYAP (Ontario Youth Apprenticeship)

The Ontario Youth Apprenticeship Program (OYAP) is a School to Work program for grade 10, 11, or 12 students that opens the door for students to explore and experience apprenticeship skilled trade career opportunities through the Cooperative Education program (Co-op). OYAP is available at all WRDSB secondary schools.

Students have an opportunity to become registered apprentices and work towards becoming certified journeypersons in a skilled trade while completing their secondary school diplomas.

OYAP Program Requirements

Students must:

- be enrolled as a full-time or part-time student during the program
- have successfully completed 14 credits prior to start of the OYAP program
- be 15 years of age or older
- be in a Co-op course and complete an OYAP form

OYAP Program Opportunities

There are 5 OYAP pathway opportunities to support student career choices. **1. OYAP Participant**

Through the Co-op program at the students home school, students are placed in a skilled trade placement with a local employer which can lead to apprenticeship opportunities.

2. OYAP Apprenticeship

While being a participant in the OYAP program in a skilled trade Co-op placement, an employer can choose to sign the student as an OYAP Apprentice by completing a Registered Training Agreement (RTA) through the Co-op teacher. The student will start earning hours towards their apprenticeship, and signing off job skills. This gives the student a head start on their apprenticeship pathway.

3. Accelerated Level 1 OYAP Dual Credits (Full Time Semester 2)

This is for a select number of students in their final high school year who can take full-time Co-op in semester 2, already have experience in their specific trade, and want to complete their Level 1 apprenticeship training. Students must have a Registered Training Agreement (RTA) with an employer licensed in their desired trade to apply for this program and interview at Conestoga College for their position.

4. Specialty Trade Union Apprenticeship Programs - (Full Time Semester 2) Students must be in their final high school year and signed up for full-time Co-op in semester 2. Students apply and interview for these programs. Students start in their home school Co-op program for pre-placement then transition into the program at the union's training facility before being placed with local contractors.

- 309A Electrician - IBEW Local 804
- 306A PLumber - UA Local 527
- 450A Construction Craft Worker - Liuna Local 837

5. Ontario Youth Apprenticeship Program - Focused Apprenticeship Skills Training (OYAP FAST)

OYAP FAST allows students in Grades 11 and 12 to participate in more apprenticeship learning through additional co-operative education credits while completing high school. See your Guidance Counsellor for more information.

Arts–Dramatic Arts

Grade	Course	Descriptor	Prerequisite	Course Description
9	ADA1OI	Dramatic Arts Open		Whether you have been taking Drama for years, or are brand new to Drama, this course has something for everyone. In this class, we will be exploring dramatic forms and techniques, using material from a wide range of sources and cultures. You will use the elements of drama to examine situations and issues that are relevant to your life. You will have the opportunity to create, perform, discuss, and analyze drama, and then reflect on the experiences to develop an understanding of yourself, the art form, and the world around you. If you are willing to take risks and try new things, you will do well here. We will be starting easy and building up your skills so that by the end of the course, you feel more confident performing on the stage.
10	ADA2OI	Dramatic Arts Open		This course requires students to actively explore dramatic forms and techniques, using their own ideas and concerns as well as sources selected from a wide range of authors, genres & cultures. Students will study, construct, discuss, perform, and analyse: mask, mime, role play, improvisation and script-writing. Students will have the opportunity to perform 10 minute plays, as well as writing and performing original monologues. Optional public performance opportunities will be presented.
11	ADA3MI	Dramatic Arts University/College Preparation	ADA1OI or ADA2OI	This course requires students to put together and perform dramatic presentations that deal with a variety of issues from the past and present. Students will analyze, interpret and perform works of drama from various authors, genres and cultures. Students will study various conventions for their presentations, create original works and analyze and perform the functions of playwright, director, actor, technician, audience and adjudicator. A public performance will be produced and performed.
12	ADA4MI	Dramatic Arts University/College Preparation	ADA3MI	This course requires students to experiment with forms and conventions in dramatic literature, and to create, script, and present original and adapted works. Students will do research on dramatic forms, conventions, themes, and theories of acting and directing from different historical periods: Greek and Roman, Medieval, Renaissance, Elizabethan, Restoration, 19 th Century and Modern 20 th Century (Canadian). Students will focus on applying all theatre skills developed in earlier grades to a major Theatre Production.

Arts–Music

Grade	Course	Descriptor	Prerequisite	Course Description
9	AMU1OI	Music (Instrumental) Open		This course focuses on beginner level instrumental (band) music and is designed for students who have no previous experience playing a concert band instrument or who wish to learn a new concert band instrument. Students will develop their musical technique, awareness and imagination as they play a variety of music on their concert band instruments. They will learn to read music and to understand musical elements and conventions. They will perform, listen, create, analyze and reflect in group and individual settings. <i>(NOTE: recorder, ukulele, guitar and piano are not “concert band” instruments and are not offered in the Gr. 9 Instrumental program)</i>
9	AMV1OI	Music (Vocal) Open		This course focuses on vocal/choral music and is suitable for both beginning and experienced singers. Students will develop their technical skills as they learn to sing, whether in a full class, small group, or individual performance setting. They will also learn to read music and to understand various musical styles. They will perform, create, listen, analyze and reflect. No previous musical experience is necessary.

Arts–Music cont’d

10	AMI2OI	Music (Instrumental - Experienced) Open	AMU1OI <u>or</u> AMU2OI	This course focuses on instrumental (band) music and is a continuation of AMU2OI (Grade 10 Instrumental Music). Students will continue to develop their technical skills as they learn to play a variety of music on their instruments. They will also continue to learn to read music and to understand various musical styles. They will perform, compose/create, listen, analyze and reflect. Students who have earned the AMU1OI credit may not take the AMU2OI course.
10	AMU2OI		Students with the AMU1OI may not take AMU2OI for credit.	This course focuses on beginner level instrumental (band) music and is designed for students who have no previous experience playing a concert band instrument or who wish to learn a new concert band instrument. Students will develop their musical technique, awareness and imagination as they play a variety of music on their concert band instruments. They will learn to read music and to understand musical elements and conventions. They will perform, listen, create, analyze and reflect in group and individual settings. (NOTE: recorder, ukulele, guitar and piano are not “concert band” instruments and are not offered in the Gr. 10 Instrumental program.)
10	AMV2OI	Music (Vocal) Open		Students will develop their technical skills as they learn to sing, whether in a full class, small group, or individual performance setting. They will also continue to learn to read music and to understand various musical styles. They will perform, compose/create, listen, analyze and reflect.
11	AMG3OI	Music (Guitar) Open		This course is designed to introduce any student to guitar playing using popular forms and techniques. Students will be provided with a steel string acoustic guitar and introduced to notation as it applies to the guitar. They will learn to navigate their way across the fretboard and play songs in a number of genres (including rock, folk, jazz, metal, and the blues). Opportunities will be given to students to compose, record, and practice general guitar maintenance. No previous musical experience is required.
11	AMI3MI	Music (Instrumental) University/College Preparation	AMV1OI <u>or</u> AMI2OI	This course focuses on instrumental (band) music and is a continuation of AMI2OI (Grade 10 Instrumental - Experienced). Students will continue to develop their technical skills as they learn to play a variety of music on their instruments. They will also continue to learn to read and interpret music and to understand various musical styles. They will perform, compose/create, listen and reflect. The role of music in society, history, and various cultures will be examined and analyzed.
11	AMV3MI	Music (Vocal) University/College Preparation	AMV2OI	This course focuses on vocal/choral music and is a continuation of AMV1OI or AMV2OI. . Students will continue to develop their vocal techniques and improve their vocal production while performing a wide variety of songs. They will also continue to learn to read and interpret music and to understand various musical styles. They will perform, compose/create, listen and reflect. The role of music in society, history, and various cultures will be examined and analyzed.
12	AMG4MI	Music (Guitar) University/College Preparation	AMG3OI	This course will help students continue to develop their skills, technique, and understanding from the Grade 11 Guitar course. Students will continue working to advance their playing across a number of musical genres, as well as deepen their understanding of guitar-specific music theory. Composition and recording will be explored further. As well, students will investigate post-secondary options for study, and work on creating transcriptions, playing guitar in a group setting, and exploring other performance-specific topics related to the instrument.
12	AMI4MI	Music (Instrumental) University/College Preparation	AMI3MI	This course focuses on instrumental (band) music and is a continuation of AMI3MI (Grade 11 Instrumental). Students will continue to develop their technical skills as they learn to play a variety of music on their instruments. They will also continue to learn to read and interpret music and to understand various musical styles. They will perform, compose/create, listen and reflect. The role of music in society, history, and various cultures will be examined and analyzed.
12	AMV4MI	Music (Vocal) University/College Preparation	AMV3MI	This course focuses on vocal/choral music and is a continuation of AMV3MI (Grade 11 Vocal). Students will continue to develop their vocal techniques and improve their vocal production while performing a wide variety of songs. They will also continue to learn to read and interpret music and to understand various musical styles. They will perform, compose/create, listen and reflect. The role of music in society, history, and various cultures will be examined and analyzed.

Arts–Visual Arts

Grade	Course	Descriptor	Prerequisite	Course Description
9	AVI1OI*	Visual Arts Open		This introductory comprehensive course offers students an opportunity to explore and develop knowledge and skills in a variety of areas as a foundation for further studies in visual arts. Students will explore the elements of design through both practical and written assignments in order to develop a better understanding of art criticism and analysis. Art history will be studied with a focus on ancient art history along with Canadian art history. A variety of materials, processes, techniques and styles will be explored.
10	ASM2OI*	Media Arts Open		This course enables students to create media art works by exploring new media and emerging technologies. Students will acquire communication skills that are transferable beyond the media arts classroom and develop an understanding of responsible practices related to the creative process. Students will develop the skills necessary to create and interpret art works.
10	AVI2OI*	Visual Arts Open		This course offers students an opportunity to build on previously learned skills and knowledge as well as explore new mediums and techniques. The elements and principles of design will be explored further and students' will apply their knowledge through written analysis, research, and practical assignments. Students will explore the art of the Middle Ages along with further exploring Canadian art history. The assignments in this course will focus on furthering their knowledge and skills in order to prepare students for continuing in visual arts.
11	ASM3MI*	Media Arts	ASM2OI	This course focuses on the development of media arts skills through the production of art works involving traditional and emerging technologies. Students will explore the evolution of media arts such as an extension of traditional art forms, use the creative process to produce effective media art works, and critically analyze the unique characteristics of this art form. Students will examine the role of media artists in shaping audience perceptions of identity, culture and values.
11	AVI3MI*	Visual Arts University/College Preparation	AVI1OI <u>or</u> AVI2OI	This course provides students with opportunities to further develop the skills and knowledge base learned in the grades 9 and 10 visual arts courses. Students will explore a range of subjects and mediums with an emphasis on technique development in their studio projects. Aspects of Western art history will be studied, and students will formalize their written and research skills through analyzing and critiquing art from the past as well as their own work of art.
11	AVI3OI*	Visual Arts Open		Students will create artworks that explore a range of subject matter and will evaluate art works using specific criteria. Aspects of Western art history will be studied along with Canadian art.
11	AWE3MI	Visual Arts - Information/ Consumer Design (Yearbook)	ASM2OI, AVI1OI <u>or</u> AVI2OI	This course builds on the student's knowledge of the basic elements and principles to strengthen design and layout skills as it applies to yearbook publishing. Assignments will focus on the use of text, information, and images in design applications. Students will strengthen communication skills (verbal, written and visual) that are applicable in many different creative design areas (i.e., photography, graphic design, typography, advertising, etc.) Because of the high level of commitment required to be successful in this course, students may be required to complete an application and interview for entry to the course. A combination of traditional and digital art skills will be applied in assignments. Strong leadership, regular attendance, and the ability to work in a team setting is essential.
11	AWQ3MI*	Photography University/College Preparation	ASM2OI, AVI1OI <u>or</u> AVI2OI	Students in this course will explore the history of photography as well as the proper care and use of a digital SLR camera. Practical assignments will focus on capturing images and learning the basic skills of digital photography as well as applying theory in a creative way. Students will learn to digitally alter and enhance pictures along with further developing their skills in analyzing and critiquing works of art. DSLR cameras will be available to use on school property.

Arts–Visual Arts Cont'd

12	ASM4MI*	Media Arts University/College Preparation	ASM3MI	This course emphasizes the refinement of media arts skills through the creation of a thematic body of work by applying traditional and emerging technologies, tools, and techniques such as multimedia, computer animation, installation art, video and performance art. Students will develop works that express their views on contemporary issues and will create portfolios suitable for use in either career or postsecondary education applications. Students will critically analyze the role of media artists in shaping audience perceptions of identity, culture, and community values.
12	AVI4EI*	Visual Arts Workplace	AVI3OI	Students will focus on further developing their practical art skills using a variety of mediums. The course provides an opportunity for students to explore art through a number of techniques and relate these skills to their society and environment.
12	AVI4MI*	Visual Arts University/College Preparation	AVI3MI	This course focuses on the refinement of students' skills and knowledge in visual arts in order to build portfolios and prepare students for a post-secondary level. Students will produce practical works of art based on theory and stylistic changes in Western art as well as other parts of the world. Students will explore Western Art history with the focus on Modern and Contemporary art.
12	AWE4MI	Visual Arts Yearbook-Informati on Design University/College Preparation	AWE3MI	Students will build on the communication skills learned and applied in the AWE3MI course. Students will take an editorial role in theme selection, page layout and creation, decision-making, and developing teamwork amongst their fellow students as it pertains to the yearbook. In addition, students will develop more advanced skills in photography, writing, and layout and design. A reference application and interview may be required for entry to the course. Strong leadership, regular attendance and the ability to work in a team setting is essential.
12	AWQ4MI*	Photography University/College Preparation	AWQ3MI	Students will build on the knowledge and skills that were developed in the AWQ3MI course. They will further their knowledge of the history of the medium as well as study experts in the field of photography. Practical assignments will continue developing their technical skills in areas such as lighting, portraiture, capturing movement, etc. More advanced Photoshop techniques will be studied to further their knowledge of the digital darkroom as well as the digital enhancement of images. It is expected that students will have their own DSLR camera to use for the course. A limited number of school cameras will be available to use on school property. Questions or concerns should be directed to L. Shantz, Visual Arts Department Head.
* Enhancement materials will be available for purchase through the Art Department. Basic supplies such as pencil crayons, pencils, erasers, rulers and notebooks must be supplied by the student.				

Business

Grade	Course	Descriptor	Prerequisite	Course Description
9	BEM1OI	Building the Entrepreneurial Mindset Open		Welcome to the world of business! In this course, we will focus on the skills and tools that are needed to make a future business (and you) succeed. You will develop an entrepreneurial mindset and learn why it's important to take initiative, adapt to change, find creative solutions, and understand the financial considerations of entrepreneurship. In this hands-on course, you will use business software and applications to plan and develop entrepreneurial ideas and learn how to deliver engaging presentations that will hook listeners (and investors too!). Throughout the course, you will develop and enhance key personal and business skills: communication, project management, goal setting, time management, and networking.
10	BEP2OI	Launching and Leading a Business Open		This business foundation course introduces students to the many areas of business, including marketing, accounting, leadership, human resources, personal finance and so much more. Emphasis is placed on fun and interactive hands-on activities such as the Taste Test Challenge, Dragon's Den Pitch, learning from guest speakers and attending field trips. Students will develop leadership skills and self confidence as they gain insight into all the specialized areas Business Studies has to offer at the senior level.

Business Cont'd

11	BAF3MI	Financial Accounting Fundamentals University/College Preparation		This course is designed to provide students with a working knowledge of accounting principles and procedures. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will be exposed to the basic accounting cycle for both service and merchandising firms, computerized accounting, financial analysis, and ethics and current issues in accounting. This course is a prerequisite for Grade 12 Accounting.
11	BDI3CI	Entrepreneurship: The Venture College Preparation		This course will focus on learning how entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful business ventures. Students will have the opportunity to develop the values, traits, and skills necessary to become a successful entrepreneur. Students will run an in-school business, and create a business venture plan.
11	BMI3CI	Marketing: Goods, Services and Events College Preparation		This course introduces the fundamental concepts of marketing which include an in-depth study of the 4 P's: Product, Price, Promotion and Place. Students will analyze the buying patterns of various consumers and the effect of marketing strategies. Students will complete the course by developing and presenting a marketing plan for a specific product that they have created.
12	BAT4MI	Financial Accounting Principals University/College Preparation	BAF3MI	This course introduces students to advanced accounting principles that will prepare them for postsecondary studies in business. Students will learn about financial statements for various forms of business ownership and how those statements are interpreted in making business decisions. This course expands students' knowledge of sources of financing, further develops accounting methods for assets, and introduces accounting for partnerships and corporations.
12	BBB4MI	International Business Fundamentals University/College Preparation		This course provides an overview of the importance of international business and trade in the global economy. It explores the factors that influence success in international business. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for postsecondary programs in business studies, including international business, marketing, and management.
12	BOH4MI	Business Leadership: Management Fundamentals University/College Preparation		This course focuses on the development of leadership skills in managing a successful business. Students will analyze the role of a leader in business and will learn how to plan, organize and control an organization. Students will practice their leadership skills by running an in school event. This course prepares students for postsecondary programs in business, including international business, marketing, and management.

Computer Studies

Grade	Course	Descriptor	Prerequisite	Course Description
11	ICS3UI	Introduction to Computer Science University Preparation		This course introduces students to computer science. Students will design software independently and as part of a team, use industry-standard programming tools and apply the software development life-cycle model. They will also write and use subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields.
12	ICS4UI	Computer Science University Preparation	ICS3UI	This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs using the Java programming language, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science and careers in the field.

English

Grade	Course	Descriptor	Prerequisite	Course Description
9	ENL1WI	English De-Streamed		This course enables students to continue to develop and consolidate the foundational knowledge and skills that they need for reading, writing, and oral and visual communication. Throughout the course, students will continue to enhance their media literacy and critical literacy skills, and to develop and apply transferable skills, including digital literacy. Students will also make connections to their lived experiences and to society and increase their understanding of the importance of language and literacy across the curriculum.
10	ENG2DI	English Academic / Single Streamed	ENL1WI	This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.
11	EMS3OI	English Media Studies	ENG2DI	This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.
11	NBE3CI	English Contemporary Indigenous Voices College Preparation	ENG2DI	This course emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by Indigenous creators. Through the analysis of literary, media and oral texts, students will continue to develop a respect for Indigenous Peoples. The knowledge and the skills described in the overall expectations will enable students to understand, respond to, and appreciate a full range of literary, informational, graphic, oral, media and cultural texts and to create their own texts in a variety of forms.
11	NBE3EI	English Contemporary Indigenous Voices Workplace Preparation	ENG2DI	This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.
11	NBE3UI	English Contemporary Indigenous Voices University Preparation	ENG2DI	This course emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by Indigenous creators. Through the analysis of literary texts and media works, students will develop an appreciation of the wealth and complexity of Indigenous writing. Students will also conduct research and analyse the information gathered; create texts that analyse the relationship between media forms and audiences. An important focus will be the further development of students' understanding of English-language usage and conventions.
12	ENG4CI	English College Preparation	NBE3CI	This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace.
12	ENG4EI	English Workplace Preparation	NBE3CI or NBE3EI	This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.

English Cont'd

12	ENG4UI	English University Preparation	NBE3UI	This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace.
12	OLC4OI	Ontario Secondary School Literacy Course Open	Guidance Counsellor recommendation required	This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.

Family Studies

Grade	Course	Descriptor	Prerequisite	Course Description
9 10	HFN1OI HFN2OI	Food and Nutrition Open	Students who have the HFN1OI credit may not take the HFN2OI course for credit.	This course focuses on guidelines for making nutritious food choices and developing food preparation skills. Students will investigate factors that influence eating patterns and make the connection between nutrition, health, and well-being. Students will have numerous opportunities to develop safe food preparation skills in practical labs, identify key nutrients and interpret nutrition facts labels. Students will also explore the environmental impact of a variety of food choices at the local and global levels, identify foods produced in Canada and assess their personal and family food purchasing and food preparation practices. Students will also be introduced to the use of social science research methods in the areas of food and nutrition.
9 10	HIF1OI HIF2OI	Exploring Family Studies Open	Students who have the HIF1OI credit may NOT take the HIF2OI course for credit.	This course explores some of the fundamental challenges people face: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will explore adolescent development and will have opportunities to develop interpersonal, decision-making, and practical skills related to daily life in both food and sewing labs. They will learn about the diverse ways in which families function in Canada and will use research skills as they explore topics related to individual and family needs and resources.
11	HLS3OI	Housing and Home Design Open		This course explores many features used for housing and living spaces that are designed and created to meet people's needs. Students will have practice making decisions about where to live and how to create and decorate pleasing environments. Students will have the opportunity to explore careers related to design and housing and develop research skills as they explore topics related to housing and home design.
11	HNC3CI	Understanding Fashion College Preparation		Students will explore what clothing communicates about the wearer and study fashion as a creative design process. Students will have the opportunity to learn about design, fibres and fabrics, garment construction and the production and marketing of clothes. Students will develop research skills through the study of fashion's connection to society and culture. Practical construction projects will encourage the development of skills for new sewers.
11	HPC3OI	Raising Healthy Children Open		This course focuses on the skills and knowledge parents, guardians, and caregivers need with regards to maternal health, pregnancy, birth, and the early years of human development. Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing.

Family Studies Cont'd

12	HFA4CI	Nutrition and Health College Preparation	Any U, C or M course in Social Sciences and Humanities, English or Canadian and World Studies	This course focuses on the relationship between nutrition and health at different stages of life and on global issues related to food production. Students will investigate the role of nutrition in health and disease and assess strategies for promoting food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and refine their ability to use social science research and inquiry methods to investigate topics related to nutrition and health.
12	HFA4UI	Nutrition and Health University Preparation	Any U or M course in Social Sciences and Humanities, English or Canadian and World Studies	This course examines the relationships between food, and nutritional status, the nutritional needs of individuals at different stages of life, and the role of nutrition in health and disease. Student's will evaluate nutrition-related trends and will determine how food choices can promote food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and develop their social science research skills by investigating issues related to nutrition and health.
12	HHG4MI	Human Development Throughout the Lifespan University/College Preparation	Any U or M course in Social Sciences and Humanities, English or Canadian and World Studies	This course offers a multidisciplinary approach to the study of human development throughout the lifespan; with a particular emphasis on enhancing growth and development. Students will examine how early brain and child development are linked to lifelong learning, health, and well-being, and will develop child-care and human-relationship skills. Students will learn about a range of theoretical perspectives on human development, and physical, cognitive, and social-emotional development from the prenatal period through old age. This course also provides students with the opportunity to refine their research and inquiry skills as they investigate issues related to human growth development.
12	HHS4UI	Families in Canada University Preparation	Any U or M course in Social Sciences and Humanities, English or Canadian and World Studies	This course applies current theories and research from the disciplines of anthropology, psychology, and sociology to analyse the development of individuals, intimate relationships, and parent-child relationships, and the ways in which families interact within the diverse Canadian society. Students will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. This course also provides students with the opportunity to refine their research and inquiry skills as they investigate issues related to individuals and Canadian families. This course provides an excellent foundation for first year college and university social science programs.
12	HIP4OI	Personal Life Management Open		This course focuses on preparing students for living independently and working successfully with others. Students will learn to manage their personal resources in order to meet their basic needs for food, clothing, and housing. Students will learn how to plan and prepare healthy meals, apply effective money-management strategies, and learn about their personal, legal, and financial responsibilities. Students will apply research and inquiry skills while investigating topics related to personal life management and making wise occupational choices.
12	HNB4MI	The World of Fashion University/College Preparation	HNC3CI is recommended	This course provides historical perspectives on fashion and design while exploring the origins, influence and importance of fashion as an expression of national, cultural, religious, and personal identity. Students will learn about the Canadian fashion industry, its worldwide links, and gain practical experience in garment design and production. Research and inquiry skills will be developed by investigating issues related to the fashion industry.
12	HPD4CI	Working with School-Age Children Adolescents College Preparation		This course prepares students for occupations involving older children and for the responsibility of parenting. Students will learn through practical experience how early child development affects later development and success in school, and personal and social well-being throughout life. Research and inquiry skills will be developed by investigating issues related to parenting and human development.

Geography

Grade	Course	Descriptor	Prerequisite	Course Description
9	CGC1WI	Exploring Canadian Geography De-streamed		This course builds on learning in Grades 7 and 8 in geography. Students will explore relationships within and between Canada's natural and human systems and how they interconnect with other parts of the world. Students will also examine environmental and economic issues, and their impact related to topics such as natural resources and industries, careers, land use and responsible development, and sustainability. In addition, students will understand the connections that diverse communities and individuals have with the physical environment and each other throughout Canada, including First Nations, Métis, and Inuit perspectives. Students will apply geographic thinking, use the geographic inquiry process, and use geospatial technologies throughout their investigations.
10	CGL23I	Geography Sustainable living	CGC1WI	The sustainable living course explores the impact of our lifestyle on the sustainability of the earth's resources and degradation of the environment. Students will examine their own lives to discern how they can make personal choices to promote sustainability. Students will explore the role of government in promoting environmentalism and sustainable living, and how they can position themselves to be active participants in a sustainable society.
11	CGF3MI	Geography Forces of Nature: Physical Processes and Disasters	CGC1WI	This course examines the Earth's physical patterns and processes and how they create natural disasters that can result in human disasters. Students will explore how physical processes related to the Earth's water, land and air can impact the planet and its people. Students will apply the concepts of geographic inquiry and spatial technologies, to investigate natural processes and make predictions related to natural disasters to prepare for and/or respond to them.
11	CGG3OI	Travel and Tourism: A Regional Geographic Perspective Open	CGC1WI	This course focuses on travel and tourism as a vehicle for the study of selected world regions. Using a variety of geotechnologies and inquiry and communication methods, students will conduct and present case studies that develop their understanding of the unique characteristics of selected world regions; the environmental, cultural, economic, and political factors that influence travel and tourism; and the impact of the travel industry on communities and environments around the world. Optional experiential learning is available with bi-annual trips to New York City, dependent upon board approval.
12	CGW4UI	Canadian and World Issues University Preparation	Any U or M course in Social Sciences and Humanities, English or Canadian and World Studies	This course will allow students to learn and/or further their geographic skills and concepts while studying important issues facing Canadians as part of an interconnected world. A range of global topics will be explored, including cultural and population changes worldwide, our economic interdependence, resource management, and various geopolitical conflicts.

Guidance, Career Education and Cooperative Education

Grade	Course	Descriptor	Prerequisite	Course Description
9	GLE1OI	Learning Strategies Open	For students who have an IEP	This course focuses on learning strategies to help students become more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community, while having time to complete their course work with support. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.
10	GLE2OI	Learning Strategies Open		
11	GLE3OI	Advanced Learning Strategies Open		This course improves students' learning and personal-management skills, preparing them to make successful transitions to work, training, and/or post secondary education destinations. Students will use literacy, numeracy, and research skills and personal-management techniques to maximize their learning and will have time to put these skills to use on their course work. Students will also investigate trends and resources to support their post secondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.
12	GLE4OI	Advanced Learning Strategies Open		

Guidance, Career Education and Cooperative Education Cont'd

10	GLC2OH	Career Studies Open 0.5 credit course		This course teaches students how to develop and achieve personal goals for future learning and work. Students will assess their skills and interests and begin to explore the transition from high school to either work, apprenticeships, college or university.
11	GPP3OI	Leadership and Peer Support		This course prepares students to act in leadership and peer support roles. Throughout this course students will assess their personal characteristics and strengths as it relates to performing in a peer support role. Students will also develop skills in communication, interpersonal relations, teamwork, group dynamics and conflict management and apply these skills as a peer tutor within a class environment. Throughout the course students will gain practical leadership experience through a peer tutor placement within HHSS where they will assist a teacher and students in a classroom setting.
11 12	DCO3OC	2 Credit Coop Open	Application and/or interview may be required. This course can be taken in Grade 11 <u>or</u> 12.	This is a 2-credit co-operative education package. This course provides students with opportunities to develop the workplace essential skills and work habits required for success in all types of workplaces. After a 3 to 4 week in-class component, students will be placed for the remainder of the semester, in a work setting based on their career interests and aspirations. Students must complete a minimum work time requirement within the workplace to earn 2 credits. Students enrolled in any Specialist High Skills Major program are strongly encouraged to select Cooperative Education in grade 11. Students MUST have their own transportation. Students may take co-op more than once and explore different careers.
12	COOP4	4 Credit Coop* Open	Application and/or interview may be required. *minimum 22 credits	This is a 4 credit co-operative education package. This course provides students with opportunities to develop the workplace essential skills and work habits required for success in all types of workplaces. After a 3 to 4 week in-class component, students will be placed for the remainder of the semester, in a work setting based on their career interests and aspirations. Students must complete a minimum work time requirement within the workplace to earn 4 credits. They will make plans for continued learning and work and investigate the resources and support required to make a smooth transition to their post-secondary destination. Students MUST have their own transportation. Students may take co-op more than once and explore different careers.

Health and Physical Education

Grade	Course	Descriptor	Prerequisite	Course Description
9	PPL1OX female PPL1OY male	Healthy Active Living Open		This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs, and participate in activities designed to develop goal-setting, communication, and social skills. CPR and AED training will also be included in this course.
10	PAF2OX female PAF2OY male	Personal and Fitness Activities Open		This course emphasizes regular participation in a variety of fitness and training programs that promote lifelong healthy active living. Student learning will include the application of movement principles in relation to body weight exercises, weight lifting and strength training while maintaining an emphasis on safety and movement form. Student participation will enhance personal movement competence, fitness, and health. Students will examine training principles, muscle anatomy, bone structure, and fitness theory.
10	PPL2OX female PPL2OY male	Healthy Active Living Open		This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They investigate issues related to healthy sexuality and relationships; the use and abuse of alcohol, tobacco, and other drugs, and participate in activities designed to develop healthy eating plans and nutrition.
11	PAF3OX* female PAF3OY* male	Healthy and Fitness Activities Open		This course emphasizes regular participation in a variety of fitness and training programs that promote lifelong healthy active living. Student learning will include the application of movement principles in relation to bodyweight exercises, Olympic lifting, and strength training while maintaining an emphasis on safety and movement form. Student participation will enhance personal movement competence, fitness, and health. Students will examine training principles, energy systems, muscle anatomy, and fitness theory.

Health and Physical Education Cont'd

11	PPL3OI (Co-ed)	Healthy Active Living		This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They will investigate health concepts as well as completing SHSM Sports certifications as part of the course. If taking this course, students are encouraged to enrol in the SHSM Sports program.
11	PPL3OX female PPL3OY male	Healthy Active Living Open		This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs, and participate in activities designed to explore mental health and wellness. Stress, communication, self concept and overall healthy active living will also be addressed.
11	PPZ3CI	Health for Life Open		This course enables students to examine the factors that influence their own health practices and behaviours as well as those factors that contribute to the development of healthy communities. It emphasizes the concept of wellness, which addresses all aspects of well-being-physical, cognitive, emotional, spiritual, and social – and promotes healthy eating, physical activity, and building and maintaining a positive sense of self. Students will develop the skills necessary to make healthy choices and create a personal wellness plan. They will also design initiatives that encourage others to lead healthy, active lives. The course prepares students for college programs in health sciences, fitness, wellness, and health promotion.
12	PAF4OI (Co-ed)	Personal and Fitness Activities Open		This course focuses on the development of a personalized approach to healthy active living through participation in a range of strength, fitness and aerobic conditioning programs. Students will develop and implement personal physical fitness plans and study indirect factors that could affect a training program. Improved physical fitness through aerobic and weight training is the objective of this course. The student must be strongly motivated and willing to fully participate in all classes.
12	PLF4MI	Recreation and Fitness Leadership University/College Preparation	Any grade 11 or 12 open course in Health and Physical Education	This course focuses on the development of leadership and coordination skills related to recreational activities. Students will acquire knowledge and skills to plan, organize and implement events that promote physical fitness.
12	PPL4OI (Co-ed)	Healthy Active Living Open		This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.
12	PSK4UI*	Introduction to Kinesiology University Preparation	Any grade 11 U or M course in Science or any grade 11 or 12 open course in Health & Physical Education	This course focuses on the study of human movement, and of systems, factors and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sports, and the factors that influence an individual's participation in physical activity. The course prepares students for university programs in physical education and health, kinesiology, health sciences, health studies, recreation, and sports administration.

* PSK4UI - \$25.00 Workbook – strongly recommended..

History and Social Sciences

Grade	Course	Descriptor	Prerequisite	Course Description
10	CHC2DI	Canadian History in the Twentieth Century Academi/Single Streamed		World War One, World War Two, the Cold War, multiculturalism, Indigenous issues...we study Canada's role in these events like a detective, using historical skills to uncover the 'real' Canada. We learn about interpretation, chronology, cause-and-effect relationships and how to write a research paper.
10	CHV2OH	Civics & Citizenship Open		Get political! Understand how Canada works! Understand how the world works! This course is full of projects and presentations to help you understand Canadian democracy and the rest of the world.
11	CHT3OI	Twentieth Century History Open	CHC2DI	Did you ever want to know more about Adolf Hitler, Joseph Stalin, Dr. Martin Luther King or Marilyn Monroe? How about the Russian Revolution, the troubles in Ireland, the Middle East or the Space Race? Then this course is for you! This course focuses on the major events and issues in world history from 1900 to present.
11	CLU3EI	Canadian Law Workplace	CHC2DI	This course provides a hands-on approach that is relevant to people's everyday lives. Topics studied include historical roots of law; criminal law and punishment; family law; civil law; and human rights and freedoms. Case analysis, research projects and debates will make the course educational and informative.
11	CLU3MI	Understanding Canadian Law University/College Preparation	CHC2DI or ENG2DI	This course will focus on major topics that are relevant to people's everyday lives. These topics include: historical roots of law; human rights and freedoms; criminal law and punishment; family law; and civil law and remedies. Case analysis, research projects, and debates will be used to make the course both interesting and educational.
11	HSP3CI	Introduction to Anthropology, Psychology, and Sociology College Preparation	CHC2DI or ENG2DI	This course introduces students to anthropology, psychology, and sociology. Subjects like social institutions, human behaviour, mental illness, sociopaths, psychopaths, religion and many current issues will be examined.
11	HSP3UI	Introduction to Anthropology, Psychology, and Sociology University Preparation	ENG2DI or CHC2DI	This course studies human behaviour from the perspective of the three main social sciences. The course focuses on what factors shape people's thinking, actions and emotions. Topics of study include mental illnesses, socialization, group conformity and the roots of social prejudice and discrimination. The university level emphasizes analysis of theoretical concepts and writing development, culminating in a research essay.
11	HZB3MI	Philosophy: The Big Questions		Students will develop critical thinking and philosophical reasoning skills as they identify and analyse the responses of philosophers to big questions such as: What is a meaningful life? What separates right from wrong? What is a just society? Students will develop their critical thinking and philosophical reasoning skills as they formulate their own responses to these big questions.
12	CHM4EI	Adventures in World History Workplace	CHC2DI	This course explores a variety of human experiences in world history from earliest times to the present. Students will learn about government, technological developments, work, art, and religion. Students will examine human societies and communicate points of view about their findings.
12	CHY4CI	World History since the Fifteenth Century	Any U or M course in Social Sciences and Humanities, English or Canadian and World Studies	While investigating key turning points in world history and historical forces that have shaped our world since approximately 1450, students will focus on interactions within and between various regions as they examine social, economic, and political developments and how they have affected different peoples. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process.
12	CHY4UI	World History since the Fifteenth Century	Any U or M course in Social Sciences and Humanities, English or Canadian and World Studies	As students continue to extend their ability to apply the concepts of historical thinking and the historical inquiry process, this course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships.

History and Social Sciences Cont'd

Grade	Course	Descriptor	Prerequisite	Course Description
12	CIA4UI	Economics University Preparation <i>This course qualifies for a business certificate</i>	Any U or M course in Social Sciences and Humanities, English or Canadian and World Studies	This course examines current national and global economic trends and policies from diverse perspectives. Students will explore the impact of choices that individuals and institutions, including governments, make in responding to local, national, and global economic issues such as globalization and global economic inequalities, trade agreements, national debt, taxation, social spending, and consumer debt. Students will apply the concepts of economic thinking and the economic inquiry process, including economic models, to investigate, and develop informed opinions about, current economic issues and to help them make reasoned economic decisions.
12	CLN4UI	Canadian and International Law University Preparation	Any U or M course in Social Sciences and Humanities, English or Canadian and World Studies	Is the United Nations a useful organization? Should Canadian soldiers be "peace-makers" in Afghanistan? Will Anti-Terrorism laws erode civil rights? Grade 12 law examines Canada's own legal system, and our current role in international law. Topics include: philosophies and origins of law; Canada's criminal justice system; international treaties and agreements; and current world conflicts. Law will be analyzed from a social, political, and global context.
12	HSB4UI	Challenge and Change in Society University Preparation	NBE3UI	This course is a follow-up of HSP3CI/HSP3UI (psychology/anthropology and sociology) with a strong focus on psychology and sociology. Some topics investigated include conformity and alienation, gender relations, psychological impacts of war, prejudice and discrimination, hate crimes, poverty, globalization, and changes due to technology. Many social trends and their impacts on people and society will also be studied.

Indigenous Studies

Grade	Course	Descriptor	Prerequisite	Course Description
11	NDA3MI	Contemporary Indigenous Issues and Perspectives in Canada University/ College Preparation	CHC2DI	This course focuses on existing and emerging issues of importance to Indigenous peoples in Canada. Students will investigate issues related to identity, relationships among Indigenous peoples and between Indigenous peoples and other Canadians, sovereignty principles as presented by Indigenous peoples, and the contemporary challenges posed by these issues. Students will also examine such topics as language preservation, the responsibilities of Indigenous women and men, and the need for dialogue between Indigenous and non-Indigenous peoples.
12	NDW4MI	Issues of Indigenous Peoples in a Global Context University/ College Preparation	Any U or M course in Social Sciences and Humanities, English or Canadian and World Studies	This course provides students with an overview of the issues and challenges that confront indigenous peoples worldwide. For example: the Ainu of Japan, the Maya of Central America and the Sami of Northern Europe. The course investigates international issues such as indigenous self-government, genocide, human rights, Indigenous /government conflicts and their resolution, loss of culture, land rights, and resource issues like the preservation of the rainforests, and the impacts of mining.

Interdisciplinary Studies

Grade	Course	Descriptor	Prerequisite	Course Description
11	IDC3OX	Student Leadership Open	Requirement for Student Activities Council A screening process will be used to select participants.	Introduction to basic leadership theories for school and community leadership roles. Students will study and apply theory in developing self-awareness, communication, planning/goal setting and leadership skills in order to support them in pursuing leadership roles.
12	IDC4UI	Student Leadership University Preparation	IDC3OX A screening process will be used to select participants.	This course will introduce students to advanced leadership theories as they pursue leadership roles in the school and community. Students will study and apply theory in developing skills in the areas of conflict resolution, planning and goal setting, problem solving, group dynamics and teamwork. Students will develop the skills and knowledge to support them in pursuing a variety of leadership roles.

Languages

Grade	Course	Descriptor	Prerequisite	Course Description
9	FSF1DI	French Academic/Single Streamed		This course provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives. Students will develop their skills in listening, speaking, reading, and writing by using language learning strategies introduced in the elementary Core French program and will apply creative and critical thinking skills in various ways. Some examples of reading include a Picture book and a short novel of 40 pages. Examples of writing include a letter, a postcard and a short 3 paragraph story. They will also enhance their understanding and appreciation of diverse French-speaking communities and will develop skills necessary for lifelong language learning. This course is intended to prepare students for grade 10 French.
10	FSF2DI	French Academic/Single Streamed	FSF1DI	This course is designed to further develop spoken and written French. Themes of fitness, childhood, sports and traveling will be explored through skits, dialogues, music and film. Increase your appreciation for French culture. Take another year of French to solidify the foundation you have!
11	FSF3UI	French University Preparation	FSF2DI	Reinforce your speaking skills, read a novel in French, research French-speaking countries and topics and discuss them in class! This course is designed to promote extensive development of all four skills in French.
11	IDP3OI	Travel Languages Open		Learn the languages and cultures of the world! Imagine being able to confidently navigate multiple continents with a foundation of cultural, historical and linguistic knowhow. This is an open language course with a focus on developing tourist language skills, cultural competence, and the basics of being a tourist in another country. The emphasis will be on language skills in French, Spanish, German and Italian! This course will also include the study of current affairs, historical perspectives, and cultural similarities in various countries.
12	IDP4UI	Travel Languages University Preparation	IDP3OI	Learn the languages and cultures of the world! Imagine being able to confidently navigate multiple continents with a foundation of cultural, historical, and linguistic know-how. This language course will focus on further developing tourist language skills, cultural competence, and the basics of being a tourist in another country. The emphasis will be on language skills in French, Spanish, German and Italian! This course will also include the study of current affairs, historical perspectives, and cultural similarities in various countries.
12	FSF4UI	French University Preparation	FSF3UI	This course draws on a variety of themes to promote extensive development of French-language skills. Students will consolidate their oral skills as they discuss literature, culture, and current issues. They will read a variety of texts and will write a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.
10	LWSBDI	Spanish Academic/Single Streamed		This is an introductory course for students who wish to develop communication skills through listening, reading, writing and speaking in Spanish. Students will interact in social and practical contexts and will learn more about the culture of Spanish speaking countries. Students with prior knowledge of Spanish are encouraged to consider taking LWSCUI.
11	LWSCUI	Spanish University Preparation	LWSBDI <u>or</u> previous knowledge of Spanish	This intermediate Spanish course provides opportunities for students to increase their competence in listening, speaking, reading, and writing in Spanish. Students will communicate in a practical way by exploring and responding to a variety of authentic oral and written texts. Students will continue to enrich their understanding and appreciation of the Spanish speaking communities and regions of the world.
12	LWSDUI	Spanish University Preparation	LWSCUI <u>or</u> previous knowledge of Spanish	This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.

Mathematics

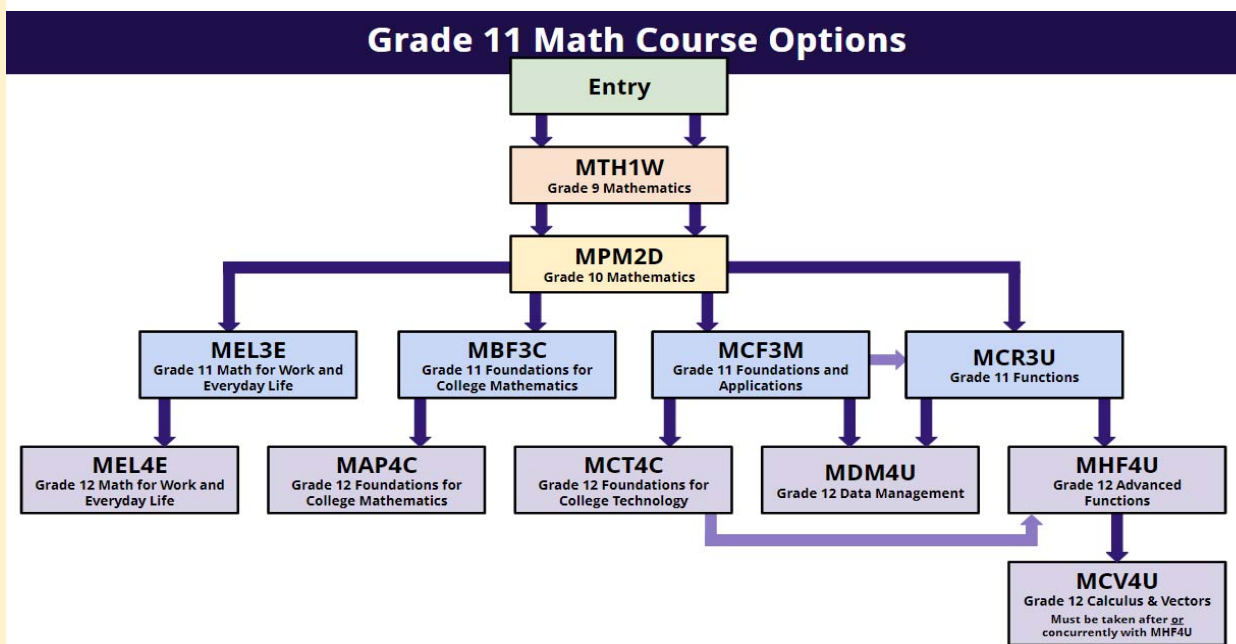
Grade	Course	Descriptor	Prerequisite	Course Description
9	MTH1WI	Mathematics De-streamed		This course enables students to consolidate, and continue to develop, an understanding of mathematical concepts related to number sense and operations, algebra, measurement, geometry, data, probability, and financial literacy. Students will use mathematical processes, mathematical modeling, and coding to make sense of the mathematics they are learning and to apply their understanding to culturally responsive and relevant real-world situations. Students will continue to enhance their mathematical reasoning skills, including proportional reasoning, spatial reasoning, and algebraic reasoning, as they solve problems and communicate their thinking.
10	MPM2DI	Principles of Mathematics Academic/Single Streamed	MTH1WI	This course enables students to consolidate, and continue to develop, an understanding of mathematical concepts related to number sense and operations, algebra, measurement, geometry, data, probability, and financial literacy. Students will use mathematical processes, mathematical modeling, and coding to make sense of the mathematics they are learning and to apply their understanding to culturally responsive and relevant real-world situations. Students will continue to enhance their mathematical reasoning skills, including proportional reasoning, spatial reasoning, and algebraic reasoning, as they solve problems and communicate their thinking.
11	MBF3CI	Foundations for College Math College	MPM2DI	This course includes a broad range of topics needed by students who plan to pursue one of a broad range of college programs. Topics include linear and quadratic relations, personal finance and data management. (Students with a mark from 50% to 70% in MPM2DI may consider this course.)
11	MCF3MI	Functions and Applications University/ College Preparation	MPM2DI	This course is designed for students who plan to pursue technology-related programs in college and for some university programs. The focus is on functions and revisits some of the important concepts developed in grade 10. (Students with a mark from 50% to 70% in MPM2DI may consider this course.)
11	MCR3UI	Functions University Preparation	MPM2DI	The pace and workload of this course is preparation for all university level courses at the grade 12 level. It is designed for students who plan to pursue any one of many university programs, including math, computer science, engineering, and physics. (A minimum mark of 70% in MPM2DI is suggested to ensure success.)
11	MEL3EI	Math for Work & Everyday Life Workplace Preparation	MTH1WI <u>or</u> MPM2DI	This course presents a blend of topics dealing with personal finance and with areas of mathematics that are useful in a variety of jobs. (Students with a mark from 50% to 70% in MPM2DI may consider this course.)
12	MAP4CI	Foundations for College Mathematics College Preparation	MBF3CI <u>or</u> MCF3MI	This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyze data using statistical methods; solve problems involving applications of geometry and trigonometry; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, human services, and for certain skilled trades.
12	MCT4CI	Mathematics for College Technology College Preparation	MCF3MI <u>or</u> MCR3UI	This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs.

Mathematics Cont'd

12	MCV4UI	Calculus and Vectors University Preparation	MHF4UI	This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, and sinusoidal functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering. <i>(It is recommended to take MHF4UI before this course. A minimum mark of 70% in MCR3UI is suggested to ensure success.)</i>
12	MDM4UI	Mathematics of Data Management University Preparation	MCF3MI or MCR3UI	This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest. A minimum mark of 75% in MCF3MI or 60% in MCR3UI is suggested to ensure success.
12	MEL4EI	Mathematics for Work and Everyday Life Workplace Preparation	MEL3EI	This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodations costs and create household budgets; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
12	MHF4UI	Advanced Functions University Preparation	MCR3UI (preferred) MCT4CI (not recommended)	This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs. <i>Advanced Functions may be taken prior to, or in the same quadmester/semester as Calculus and Vectors (MCV4U). However, it is highly recommended that Advanced Functions be successfully completed before attempting Calculus and Vectors.</i>

Making Your Choice for Grade 11 Math Courses

A Grade 11 math credit is required for graduation. It is possible to take multiple and/or different Grade 11 or 12 math courses.



Science

Grade	Course	Descriptor	Prerequisite	Course Description
9	SNC1WI	Science De-streamed		This course enables students to develop their understanding of concepts related to biology, chemistry, physics, and earth and space science, and to relate science to technology, society, and the environment. Throughout the course, students will develop and refine their STEM skills as they use scientific research, scientific experimentation, and engineering design processes to investigate concepts and apply their knowledge in situations that are relevant to their lives and communities. Students will continue to develop transferable skills as they become scientifically literate global citizens.
10	SNC2DI	Science Academic/Single Streamed	SNC1WI	This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and organ systems in animals and plants; chemical reactions, with a particular focus on acid-base reactions; forces that affect climate and climate change; and the interaction of light and matter.
11	SBI3CI	Biology College Preparation	SNC2DI	This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.
11	SBI3UI	Biology University Preparation	SNC2DI	This course furthers students' understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.
11	SCH3UI	Chemistry University Preparation	SNC2DI	This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.
11	SPH3UI	Physics University Preparation	SNC2DI	This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.
11	SVN3EI	Science Workplace Preparation	SNC1WI	This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Students will explore a range of topics, including the impact of human activities on the environment; human health and the environment; energy conservation; resource science and management; and safety and environmental responsibility in the workplace. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy.
12	SBI4UI	Biology University Preparation	SBI3UI recommended minimum average of 70% SCH3UI strongly recommended	This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields.

Science-Cont'd

12	SCH4CI	Chemistry College Preparation	SNC2DI	This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment.
12	SCH4UI	Chemistry University Preparation	SCH3UI recommended minimum average of 70%	This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information while emphasizing the impact of chemical technology on the environment.
12	SES4UI	Earth and Space Science University Preparation	SNC2DI recommended average of 70%	This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyse techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives. The course draws on biology, chemistry, physics, and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence.
12	SPH4CI	Physics College Preparation	SNC2DI	This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.
12	SPH4UI	Physics University Preparation	SPH3UI recommended minimum average of 70%	This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.

Technology

Grade	Course	Descriptor	Prerequisite	Course Description
9	TAS1OI	Technology and the Skilled Trades		This hands-on course enables students to further explore the engineering design process and develop other technological knowledge and skills introduced in earlier grades. Students will design and safely create prototypes, products, and/or services, working with tools and technologies from various industries. As students develop their projects to address real-life problems, they will apply technological concepts such as precision measurement, as well as health and safety standards. Students will begin to explore job skills programs and education and training pathways, including skilled trades, that can lead to a variety of careers.
10	TCJ2OI	Construction Technology Open		This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology and will explore secondary and postsecondary pathways leading to careers in the industry.

Technology

Grade	Course	Descriptor	Prerequisite	Course Description
9	TAS1OI	Technology and the Skilled Trades		This hands-on course enables students to further explore the engineering design process and develop other technological knowledge and skills introduced in earlier grades. Students will design and safely create prototypes, products, and/or services, working with tools and technologies from various industries. As students develop their projects to address real-life problems, they will apply technological concepts such as precision measurement, as well as health and safety standards. Students will begin to explore job skills programs and education and training pathways, including skilled trades, that can lead to a variety of careers.
10	TCJ2OI	Construction Technology Open		This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology and will explore secondary and postsecondary pathways leading to careers in the industry.
10	TDJ2OI	Technological Design Open		Introduction to mechanical and architectural design and drafting using computer aided design software and conventional drafting.
10	TEJ2OI	Computer Engineering Technology Open		This is an open level introductory course in computers, electronics and robotics. Students will learn to design, build and program various projects throughout the semester. All course material has a hands-on approach and students will have the opportunity to use a variety of tools and equipment to build their projects. An introduction to computer technology and computer components is also covered.
10	TGJ2OI	Communications Technology Open		This course will introduce students to the design and creation of projects in the areas of: Graphic Design (for print and screen), Animation, Photography, Audio Production, Film and Video. Students will use a variety of industry standard software (including many from the Adobe Suite such as Photoshop, Illustrator, and Audition) to create design projects. As well, students will use hardware such as a vinyl cutter, silk screen press, cameras and the radio room to design and create fabrication and/or material projects (such as t-shirts, signs, stickers, podcasts, and film negatives). Students will also develop an awareness of environmental and societal issues related to communications technology, and will explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.
10	TTJ2OI	Transportation Technology Open		This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues, and will explore secondary and postsecondary pathways leading to careers in the transportation industry.
11	TCJ3CI	Construction Technology College Preparation		This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands-on experience using a variety of construction materials, processes, tools and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and will explore career opportunities in the field.
11	TDJ3MI	Technological Design University/ College Preparation		Students will study mechanical and architectural design and drafting using computer aided design software and conventional design.
11	TEJ3MI	Computer Engineering Technology University/ College Preparation		Students will develop knowledge and skills in electronics, robotics, and programming. They will build systems that use computer programs and interfaces to control and/or respond to external devices.

Technology Cont'd

11	TGJ3MI	Communications Technology University/ College Preparation		This course will assist students in developing expertise in the creation of projects in the areas of: Graphic Design (for print and screen), Animation, Photography, Audio Production, Film and Video. Students will develop skills and abilities in the use of a variety of industry standard software (including many from the Adobe Suite such as Photoshop, Illustrator, and Audition) as well as hardware (such as vinyl cutters, silk screen presses, and an audio and video production suite). Students will also explore college and university programs and career opportunities in the various communications technology fields and begin developing a portfolio of their own design work for this purpose.
11	TPJ3CI	Exploring Health Care College Preparation		In a fully equipped Health Care lab, students use specialized nursing and medical equipment to learn health care procedures and skills. The course gives students a general idea of what it's like to work in various medical professions. The theoretical portion of the class focuses on human anatomy, physiology, and basic medical terminology. By the end of the course, students will be able to take a full set of vital signs and feel confident in basic caregiving skills.
11	TPJ3MI	Exploring Health Care University/ College Preparation		This course focuses on the development of knowledge and skills that will benefit students planning a career in the healthcare field. In a fully equipped Health Care lab, students use specialized nursing and medical equipment to learn health care procedures and skills. It gives students a general idea of what it's like to work in various medical professions. The theoretical portion of the course focuses on human anatomy, physiology, and basic medical terminology. By the end of the course, students will be able to take a full set of vital signs and feel confident in basic caregiving skills.
11	TTJ3CI	Transportation Technology College Preparation		This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry.
12	TCJ4CI	Construction Technology College Preparation	TCJ3CI	This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment, and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering technology and will explore career opportunities in the field.
12	TDJ4MI	Technological Design University/ College Preparation	TDJ3MI	This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem-solving and communication skills and explore career opportunities and the postsecondary education and training requirements.
12	TEJ4MI	Computer Engineering University/ College Preparation	TEJ3MI	This course helps students understand and apply computer engineering concepts. Students will analyze and design computer components such as logic circuits and interfaces; develop and construct systems and write the associated computer programs to drive real-world devices such as traffic lights, models and robotics. As well as developing project management skills, students will examine the ethics of computer use and explore related educational requirements and careers.
12	TGJ4MI	Communications Technology University/College Preparation	TGJ3MI	This course enables students to further develop knowledge and skills in the areas of graphic communication, printing and publishing, audio and video production, and broadcast journalism. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging, broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology and will investigate career opportunities and challenges in a rapidly changing technological environment. A particular focus throughout this course will be on the development of a digital portfolio as well as larger, and more substantial final projects dependent on student interest, focus, or future plans.

Technology Cont'd

12	TPJ4CI	Health Care College Preparation	TPJ3CI	This course focuses on human physiology, pathology, and immunology. Students will learn about accepted medical care practices, current technological advances in health care, and how to perform various procedures and use tools and equipment in the field of health care. Students will also design solutions to common medical and health care problems, investigate career opportunities, and examine laws and safety standards in the healthcare industry and the impact of this industry of the environment.
12	TPJ4MI	Health Care University/College Preparation	TPJ3MI	This course focuses on the development of clinical skills needed to assess general health status. Students will learn about accepted health care practices and how to perform various procedures, using appropriate instruments and equipment. They will learn about the human immune system, pathology, disease prevention and treatment. Students will also expand their awareness of workers' health & safety issues, environmental & societal issues related to healthcare, and postsecondary destinations
12	TTJ4CI	Transportation Technology College Preparation	TTJ3CI	This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; powertrains; steering/ control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/or small-engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry.