



ORILLIA SECONDARY SCHOOL

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Orillia, ON
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Website

<http://oss.scdsb.on.ca>

Principal

Jim Sammon

Vice-Principals

Debbra Arcuri
David Brooks

Family of Schools

Coldwater
Couchiching Heights
Lions Oval
Marchmont
Orchard Park
Severn Shores
Warminster

Superintendent

Douglas Paul

Student Population

1080

School Colours

Black, Silver, & Orange

Sports Team

Nighthawks

2018-19 Course Calendar

About Us

Welcome to Orillia Secondary School where you can achieve academic success, raise your social consciousness, strive for gold in athletics, express your creative side through the arts or shops and make lifetime friends. OSS has a variety of opportunities for students to succeed in all areas of school life.

Our students will be encouraged and supported in exploring their interests and talents so they can acquire the necessary skills to be successful in both learning and life. Ultimately, the goal for all of our students is to be happy, productive and contributing members in our ever changing world.

Program Highlights

- [Specialist High Skills Major in Construction](#) – Students interested in pursuing careers in the construction trades (focus on fabrication) and engineering pathways will benefit from the practical skills, certifications, and experiential learning offered in this unique program.
- [Specialist High Skills Major in Health and Wellness](#) – Students interested in pursuing careers in health care or in fitness & health promotion will benefit from the cluster of courses, certifications, and reach ahead experiences offered within this specialized program.

Course selection Information – Timelines and Due Dates

- ▶ Guidance counsellors will be assisting students with course options and pathway planning throughout February 2018. All course selections will be completed online via the Student Portal; the use of my Blueprint as a resource is recommended.

Final deadline for course requests (all grades) = March 2, 2018.

***"Effort creates many
paths to excellence"***





ORILLIA SS - CONDENSED CALENDAR

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
ARTS				
Drama	ADA1O	ADA2O	ADA3O	
Drama (Univ./College)			ADA3M	ADA4M
Drama Production (Univ./College)			ADD3M	
Music-Guitar (Open)			AMG3O	
Music-Guitar (Univ./College)			AMG3M	AMG4M
Music Stage Band (Univ./College)			AMH3M	AMH4M
Music – Instrumental Experienced	AMI1O	AMI2O	AMI3M	AMI4M
Music – Instrumental (Open)	AMU1O	AMU2O		
Music – Vocal		AMV2O		
Music – Vocal (Univ./College)			AMV3M	AMV4M
Dance		ATC2O	ATC3O	
Dance (Univ./College)			ATC3M	ATC4M
Visual Arts (Open, Workplace)	AVI1O	AVI2O	AVI3O	AVI4E
Visual Arts (Univ./College)			AVI3M	AVI4M

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
BUSINESS				
Info. and Comm. Technology	BTT1O			
Introduction to Business		BBI2O		
Financial Accounting Fundamentals (University)			BAF3M	
Financial Accounting Principles (University)				BAT4M
Business Leadership: Becoming a Manager (Workplace)				BOG4E
Entrepreneurial Studies: Venture Planning (College)			BDI3C	BDV4C
International Business Fundamentals eLearn (Univ./College)				BBB4MV*
Business Leadership: Management eLearn (Univ./College)				BOH4MV*

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Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
CANADIAN & WORLD STUDIES				
Issues in Canadian Geography (Academic)	CGC1D			
Issues in Canadian Geography (Applied)	CGC1P			
Issues in Canadian Geography (Modified)	CGC1PB			
Travel and Tourism: A Geographic Perspective			CGG3O	
Forces of Nature: Physical Processes & Disasters eLearn (Univ./College)			CGF3MV*	
World Issues (University)				CGW4U
Environment & Resource Management eLearn (Univ./College)				CGR4MV*
Canadian History since World War I (Academic)		CHC2D		
Canadian History since World War I (Applied)		CHC2P		
Canadian History since World War I (Locally developed)		CHC2L		
Civics and Citizenship (half credit taken with a half credit in Careers)		CHV2OH		
World History to the End of the Fifteenth Century (Univ./College)			CHW3M	
World History since the Fifteenth Century (College)				CHY4C

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
CANADIAN & WORLD STUDIES				
World History since the Fifteenth Century (University)				CHY4U
World History since 1900: Global and Regional Interactions (Open)			CHT30	
Adventures in History (Workplace)				CHM4E
Understanding Law (Univ./College)			CLU3M	
Legal Studies (College)				CLN4C
Canadian and International Law (University)				CLN4U
Canadian and International Law eLearn (University)				CLN4UV*
Analyzing Current Economic Issues eLearn (University)				CIA4UV*
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Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
CO-OPERATIVE EDUCATION				
Designing Your Future (2 credit placement)			GWL302	GLN402
Designing Your Future (4 credit placement)				GLN404

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
ENGLISH				
English (Academic)	ENG1D	ENG2D		
English (Applied)	ENG1P	ENG2P		
English (Locally Developed)	ENG1L	ENG2L		
English (College)			NBE3C	ENG4C
English (University)			ENG3U	ENG4U
English Advanced Placement (University)				ENG4UP*
English (Workplace)			ENG3E	ENG4E
Literacy Course			OLC3O	OLC4O
Writers Craft (College)				EWC4C
Writers Craft (University)				EWC4U

*The Advanced Placement (AP) course is an accelerated and advanced level program designed to meet the rigorous requirements of the American College Board examination in May, allowing students to experience university level programming while still in high school.

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
FIRST NATIONS, MÉTIS, INUIT STUDIES				
First Nations, Métis, and Inuit Peoples in Canada (Open)		NAC2O		
Worldviews & Aspirations of FNMI Peoples in Canada (Workplace)			NBV3E	

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
FRENCH AND INTERNATIONAL LANGUAGES				
Core French (Academic)	FSF1D	FSF2D	FSF3U	FSF4U
Core French (Applied)	FSF1P	FSF2P		
Core French (Open)	FSF1O			
German		LWGBD	LWGCU	LWGDU
Latin		LVLBD1	LVLCU	LVLDU
Languages for Travel (Spanish, Korean, & others)			LWS/LKK	

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
GUIDANCE & CAREER EDUCATION & SPECIAL EDUCATION (* Only for students with an Individual Education Plan)				
Learning Strategies: Skills for Success In Secondary School	GLE1O*		GLE3O*	GLE4O*
Career Studies (half credit taken with a half credit in Civics)		GLC2OH		

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
HEALTH AND PHYSICAL EDUCATION				
Healthy Active Living Education (F=female, M=male)	PPL1OF PPL1OM	PPL2OF PPL2OM	PPL3OF PPL3OM	PPL4O
Healthy Living and Personal & Fitness Activities (co-ed)			PAF3O	PAF4O
Healthy Living and Large Group Activities: Basketball focus (co-ed)			PAL3O	PAL4O
Introduction Kinesiology (University)				PSK4U

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
INTERDISCIPLINARY STUDIES				
Leadership and Peer Support (University)				IDC4U
Year Book			IDC3O	IDC4O

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
MATHEMATICS				
Principles of Mathematics (Academic)	MPM1D	MPM2D		
Foundations of Mathematics (Applied)	MFM1P	MFM2P		
Mathematics (Locally Developed)	MAT1L	MAT2L		
Functions (University)			MCR3U	
Functions and Applications (Univ./College)			MCF3M	
Foundations for College Mathematics (College)			MBF3C	MAP4C
Mathematics for Work and Everyday Life (Workplace)			MEL3E	MEL4E
Advance Functions (University)				MHF4U
Calculus and Vectors (University)				MCV4U
Mathematics of Data Management (University)				MDM4U

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Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
SCIENCE				
Science (Academic)	SNC1D	SNC2D		
Science (Applied)	SNC1P	SNC2P		
Science (Locally Developed or Workplace)	SNC1L	SNC2LL		SNC4E
Biology (College)			SBI3C	
Biology (University)			SBI3U	SBI4U
Chemistry (College)				SCH4C
Chemistry (University)			SCH3U	SCH4U
Environmental Science (Workplace)			SVN3E	
Environmental Science (Univ./College)			SVN3M	
Physics (College)			SPH3U	SPH4C
Physics (University)				SPH4U
Physics Advanced Placement (University)				SPH4UP*

**The Advanced Placement (AP) course is an accelerated and advanced level program designed to meet the rigorous requirements of the American College Board examination in May, allowing students to experience university level programming while still in high school.*

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
SOCIAL SCIENCE AND THE HUMANITIES				
Exploring Family Studies	HIF1O			
Food and Nutrition		HFN2O		
Housing and Home Design			HLS3O	
Challenge and Change in Society (University)				HSB4U
Introduction to Anthropology (College)			HSP3C	
Introduction to Anthropology (University)			HSP3U	

Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
SOCIAL SCIENCE AND THE HUMANITIES				
Nutrition and Health (College)				HFA4C
Nutrition and Health (University)				HFA4U
Personal Life Management (Open)				HIP4O
Raising Healthy Children (Open)			HPC3O	
Working with School-age Children & Adolescents (College)				HPD4C
Food and Culture			HFC3E	
Food and Healthy Living				HFL4E
Equity & Social Justice eLearn (University/College)				HSE4MV*
Understanding Fashion (College)			HNC3C	
The World of Fashion (College/Univ.)				HNB4M

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Course Titles	Grade 9	Grade 10	Grade 11	Grade 12
TECHNOLOGICAL EDUCATION				
Exploring Technologies	TIJ1O			
Communications Technology (Univ./College)		TGJ2O	TGJ3M	TGJ4M
Computer Technologies		TEJ2O	TEJ3E TEJ3M	TEJ4E TEJ4M
Construction Technology (Open, Workplace)		TCJ2O	TCJ3E	TCJ4E
Construction Technology (College)			TCJ3C	TCJ4C
Custom Woodworking			TWJ3E	TWJ4E
Health Care Technology		TPJ2O	TPJ3C	
Health Care Technology (Univ./College)			TPJ3M	TPJ4M
Health Care: Support Services (Workplace)				TPJ4E
Manufacturing Technology		TMJ2O	TMJ3E	TMJ4E
Manufacturing Technology (College)			TMJ3C	TMJ4C
Manufacturing Technology (Univ./College)			TMJ3M	TMJ4M
Technological Design		TDJ2O	TDJ3O	TDJ4O
Technological Design (Univ./College)			TDJ3M	TDJ4M
Transportation Technology (Open, Workplace)		TTJ2O	TTJ3O	TTJ4E
Transportation Technology (College)			TTJ3C	TTJ4C

SCDSB eLearning options for 2018-19

Course Titles		Grade 9	Grade 10	Grade 11	Grade 12
eLEARNING SCDSB					
Sem.1	Business Leadership: Management Fundamentals (Univ./College)				BOH4MV*
	Analyzing Current Economic Issues (University)				CIA4UV*
	Forces of Nature: Physical Processes & Disasters (Univ./College)			CGF3MV*	
	Equity and Social Justice (Univ./College)				HSE4MV*
	Ontario Literacy Course			OLC3OV*	OLC4OV*
Sem.2	International Business Fundamentals (Univ./College)				BBB4MV*
	Environment and Resource Management (Univ./College)				CGR4MV*
	Canadian and International Law (University)				CLN4UV*

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Summer School 2018-2019

To register in any of the following summer school courses, students must make an appointment to meet with their Guidance Counsellor.

Summer School Courses			Grade 9	Grade 10	Grade 11	Grade 12
Face to Face		Applied to Academic Math Transfer (0.5 cr) Foundations for College Mathematics (Coll.) Functions (University.) Advance Functions (University) Calculus and Vectors (University)	MPM1HH		MBF3CS MCR3US	MAP4CS MHF4US MCV4US
eLearning	Business	International Business Fundamentals				BBB4MS
	English	Literacy Course English (College) English (University) Writers Craft (University)			OLC3OS ENG3CS ENG3US	OLC4OS ENG4CS ENG4US EWC4US
	Math	Mathematics of Data Management (Univ.)				MDM4US
	CWS	Analysing Current Economic Issues (Univ.)				CIA4US
	Guidance	Civics (0.5 cr) Careers (0.5 cr)		CHV2OS GLC2OS		
	Science	Biology (College) Biology (University) Chemistry (College) Chemistry (University) Physics (College) Physics (University)			SBI3CS SBI3US SCH3US SPH3US	SBI4US SCH4CS SCH4US SPH4CS
	Social Science	Equity and Social Justice (Univ./College) World Cultures (Univ./College) Gender Studies (Univ./College)			HSG3MS	HSE4MS HSC4MS
EduTravel* (Website)		Biology in Fiji Sustainable Environments Spirit of America Civics and Careers Canadian Geography (Academic)	CGC1D	CHV/GLC2O	SBI3U ENG3U	CGR4M ENG4U

*EduTravel is an SCDSB approved *Independent Travel Company* offering credit based learning opportunities during March break and in the summer, for a fee. Information and registration details are available on the EduTravel [website](#).



Night School

2018-2019

To register in any of the following night school courses, students must make an appointment to meet with their Guidance Counsellor.

Night School Courses				
Barrie Learning Centre				
Blended Learning Model – Two nights/week. One night face to face and one night online.				
Online class night offers teacher office hours for students to work with a teacher or access computer resources				
		Course Code	Semester 1	Semester 2
Grade 11	English (Literacy)	OLC3OZ	Tuesday	Tuesday
	English (Workplace)	ENG3EZ	Tuesday	Tuesday
	English (College)	ENG3CZ	Tuesday	Tuesday
	English (University)	ENG3UZ	Tuesday	Tuesday
	Math for Work and Everyday Life (Workplace)	MEL3EZ	Thursday	Thursday
	Foundations for College Math (College)	MBF3CZ	Thursday	Thursday
	Functions Mathematics (University)	MCR3UZ	Thursday	
	Biology (College)	SBI3CZ	Tuesday	Tuesday
	Biology (University)	SBI3UZ	Tuesday	Tuesday
	Chemistry (University)	SCH3UZ	Tuesday	Tuesday
	Physics (University)	SPH3UZ	Tuesday	
Grade 12	English (Literacy)	OLC4OZ	Tuesday	Tuesday
	English (Workplace)	ENG4EZ	Tuesday	Tuesday
	English (College)	ENG4CZ	Tuesday	Thursday
	English (University)	ENG4UZ	Tuesday	Thursday
	Math for Work and Everyday Life (Workplace)	MEL4EZ	Thursday	Thursday
	Foundations for College Math (College)	MAP4CZ	Thursday	
	Advanced Functions (University)	MHF4UZ	Thursday	
	Calculus (University)	MCV4UZ		Thursday
	Data Management (University)	MDM4UZ		Thursday
	Biology (University)	SBI4UZ	Tuesday	Tuesday
	Chemistry (College)	SCH4CZ	Tuesday	Tuesday
	Chemistry (University)	SCH4UZ		Tuesday
	Physics (College)	SPH4CZ	Tuesday	
	Physics (University)	SPH4UZ		Tuesday
	Equity & Social Justice: Theory to Practice (Univ./College)	HSE4MZ	Thursday	
	World Cultures (Univ./College)	HSC4MZ		Tuesday

Course Titles		Grade 11		Grade 12	
SHSM HEALTH & WELLNESS					
Major Credits • 4 Required <i>At least 1 from each Grade level</i>	Health & Physical Education	PPL3OF PPL3OM	PAF3O PAL3O	PPL4O1 PAF4O PAL4O	PSK4U
	Science	SBI3C SBI3U	SCH3U	SNC4E SCH4C	SBI4U SCH4U
	Social Science & Humanities			HFA4C	HFA4U
	Health Care Technological Education	TPJ3C	TPJ3M	TPJ4E	TPJ4M
English • 2 Required • 1 CLA Required	English	ENG3C/NBE3C ENG3E	ENG3U OLC3O	ENG4C ENG4E	ENG4U OLC4O
Mathematics • 1 Required • CLA Required	Mathematics	MBF3C MCR3U	MCF3M MEL3E	MAP4C MCT4C MEL4E	MHF4U MCV4U MDM4U
Other • 1 Required • CLA Required	Science		SPH3U		SNC4E SPH4C SPH4U
	Social Science & Humanities	HFC3E HPC3O	HSP3C HSP3U	HFL4E HIP4O	HSB4U HPD4C
Co-op • 2 Credits Required	Cooperative Education • Placement related to SHSM sector	GWL3O2 (2 credit)		GLN4O2 (2 credit) GLN4O4 (4 credit)	

Course Titles		Grade 11		Grade 12	
SHSM CONSTRUCTION					
Major Credits • 4 Required • At least 1 from each Grade level	Technological Education	TCJ3C / 3E TDJ3M / 3O TWJ3E	TMJ3C/3E/3M TTJ3C / 3O	TCJ4C / 4E TDJ4M / 4O TWJ4E	TMJ4C/J4E/4M TTJ4C / 4E
English • 2 Required • 1 or 2 CLAs Required+	English	ENG3C/NBE3C ENG3E	ENG3U OLC3O	ENG4C ENG4E	ENG4U OLC4O
Mathematics • 1 or 2 Required • CLA Required++	Mathematics	MBF3C MCR3U	MCF3M MEL3E	MAP4C MCT4C MEL4E	MHF4U MCV4U MDM4U
Other • 1 Required • CLA Required	Business Studies	BDI3C BMI3C	BAF3M	BDV4C BOG4E	BAT4M BBB4M BOH4M
	Science	SVN3E	SVN3M SPH3U	SPH4C SNC4E	SPH4U
Co-op • 2 Credits Required	Cooperative Education • Placement related to SHSM sector	GWL3O2 (2 credit)		GLN4O2 (2 credit) GLN4O4 (4 credit)	

ARTS – DRAMATIC ARTS

ADA101: Dramatic Arts, Grade 9, Open

[back to Arts](#)

This course provides opportunities for students to explore dramatic forms and techniques, using material from a wide range of sources and cultures. Students will use the elements of drama to examine situations and issues that are relevant to their lives. Students will create, perform, discuss, and analyse drama, and then reflect on the experiences to develop an understanding of themselves, the art form, and the world around them.

ADA201: Dramatic Arts, Grade 10, Open

This course provides opportunities for students to explore dramatic forms, conventions, and techniques. Students will explore a variety of dramatic sources from various cultures and representing a range of genres. Students will use the elements of drama in creating and communicating through dramatic works. Students will assume responsibility for decisions made in the creative and collaborative processes and will reflect on their experiences.

Prerequisite: none

ADA301: Dramatic Arts, Grade 11, Open

This course requires students to put together and present dramatic works dealing with stories, personal experiences, and local issues. Students will do research on and study contemporary theatrical forms, such as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyze and reflect on dramatic works; and develop their communication skills and other skills useful in a variety of careers. This course will explore the potential of drama to build connections within the ensemble and with the wider community beyond the classroom.

Prerequisite: none

ADA3M1: Dramatic Arts, Grade 11, University/College

This course requires students to create and perform in dramatic presentations. Students will analyse, interpret, and perform dramatic works from various cultures and time periods. Students will research various acting styles and conventions that could be used in their presentations, and analyse the functions of playwrights, directors, actors, designers, technicians, and audiences.

Prerequisite: ADA10 or ADA20

ADD3M1: Dramatic Arts – Production, Grade 11, University/College

The focus of this course will be the production of a full-scale dramatic performance. This will provide students with the opportunity to communicate their ideas through directing, stage managing and developing a scene's artist impression. This course emphasizes the acquisition and application of knowledge and skills related to production, creation and interpretation of works involving dance, media, music, children's literature and/or visual arts.

Prerequisite: ADA10 or ADA20

ADA4M1: Dramatic Arts, Grade 12, University/College

[back to Arts](#)

This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theatre from various cultures and time periods. Students will interpret dramatic literature and other text and media sources while learning about various theories of directing and acting. Students will examine the significance of dramatic arts in various cultures, and will analyze how the knowledge and skills developed in drama are related to their personal skills, social awareness, and goals beyond secondary school.

Prerequisite: ADA3M or ADD3M

ARTS – MUSIC -- Instrumental

AMU101: Music, Grade 9, Open (For students with little or no music experience)

This course emphasizes the creation and performance of music at a level consistent with previous experience and is aimed at developing technique, sensitivity, and imagination. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life.

Have you ever wished you had the opportunity to play an instrument?! This beginning 'no experience needed' introduction course to the world of music and musical performance is for you. Students will select one instrument from the brass(trumpet, trombone, baritone, tuba, French horn), woodwind (flute, clarinet, saxophone) or percussion (too many to list all of the instruments) families and will learn how to read music notation and play a variety of tunes (i.e. Star Wars, Eye of the Tiger, Mission Impossible, various Movie Themes and much more). Students will use available technology to compose, create and perform their own masterpieces.

AMI101: Instrumental Music, Grade 9, Open (For Grade 9 students with instrumental band experience)

Do you want to continue playing, learning, developing, and making music with others? This music class is for students that have had previous band experience and can already **fluently** read either the treble or bass clef staves. Students will continue refining their skills through learning a variety of band pieces (i.e. movie themes, classic rock, rock and jazz standards, etc.). Using available technology, students will compose, create and perform their own masterpieces.

Do you have several years of experience playing a band instrument (brass, woodwind or percussion) in elementary school in grade 7 & 8? OR have you been taking private lessons on a band instrument for more than a year? This 'experienced' course is where you should be.

AMU201: Instrumental Music, Grade 10, Open[back to Arts](#)

This course is designed for students wanting to continue playing, learning, developing and making music with others and have had a minimum of one semester of musical training. Students will continue refining their skills through learning a variety of band pieces. Using available technology, students will compose, create and perform their own masterpieces. Students will have the opportunity to work in both large and small group ensemble settings.

Prerequisite: AMU101 recommended

AME201: Instrumental Music, Grade 10, Open

Have you been wishing you had the opportunity to learn how to play an instrument? All the basics will be covered in this course. This course emphasizes the creation and performance of music at a level consistent with previous experience. Students will develop music literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop their understanding of musical conventions, practices, and terminology and apply the elements of music in a range of activities. They will also explore the function of music in society with reference to the self, communities, and cultures. Opportunities to work in both large and small group ensemble settings will occur.

Prerequisite: none

AMI201: Music, Grade 10, Open

This course is designed for students wanting to continue on the same instrument studied either in grade 9 or through private study. This course continues developing performance skills, but will take it to the next level. Learning and skill development will be based around the pieces/songs the class is learning and students will have the opportunity to select tunes to learn from our music library. Student will use available technology (i.e. sequel 2, finale) to compose, create and perform their own masterpieces. Students will have the opportunity to work in both large and small group ensemble settings.

Prerequisite: AMI101

AMI3M1: Instrumental Music Grade 11, University/College Preparation

This course develops students' musical literacy through performance and the preparation & presentation of music productions. Students will perform works at a level consistent with previous experience. Independently and collaboratively, students will use current technology and the creative & critical analysis processes to plan, produce, present, and market musical productions. Students will respond to, reflect on, and analyse music from various genres and periods, they will develop skills transferable to other aspects of their life and their careers. Using available technology, students will compose, arrange, perform and record their masterpieces. Students will have the opportunity to work in both large and small group ensemble settings.

Prerequisite: AMU201 or AMI201

AMH3M1: Music (Stage Band), Grade 11, University/College Preparation[back to Arts](#)

This course focuses on the study of stage band repertoire and the development of the technique required for stage band performance. Instrumentation includes: saxophone, trombone, trumpet, rhythm section (drums, bass, piano & guitar). This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

Prerequisite: AMU201 or AMI201

AMI4M1: Instrumental Music Grade 12, University/College Preparation

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music. Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Using available technology, students will compose, arrange, perform and record their masterpieces. Students will have the opportunity to work in both large and small group ensemble settings.

Prerequisite: AMI3M1

AMH4M1: Music (Stage Band), Grade 12, University/College

This course continues to develop performance skills through the study of stage band repertoire and the development of the technique required for stage band performance. Instrumentation includes: saxophone, trombone, trumpet, rhythm section (drums, bass, piano & guitar). Students will have opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

Prerequisite: AMI3M1 or AMH3M

ARTS – MUSIC -- Guitar**AMG3O1: Music (Guitar), Grade 11, Open**[back to Arts](#)

This course develops students' musical literacy through performance and the preparation and presentation of music productions. Students will perform works at a level consistent with previous experience. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, present, and market musical productions. Students will respond to, reflect on, and analyse music from various genres and periods, and they will develop skills transferable to other aspects of their life and their careers.

Prerequisite: None

AMG3M1: Music (Guitar), Grade 11, University/College Preparation

Students in this course should have previous musical knowledge but wish to apply and develop these skills on guitar. This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

Prerequisite: AMI1O1 or AMU1O1 or AMI2O1 or AMU2O1

AMG4M1: Music (Guitar), Grade 12, University/College

This course is designed as a continuation of the study of guitar techniques. Students will learn melodies and chorded accompaniments in a variety of musical styles. Using available technology students will compose, arrange, perform and record their own tunes. Students will have the opportunity to explore additional string instruments.

Students will have opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

Prerequisite: AMG3M

ARTS – MUSIC -- Vocal**AMV2O1: Music (Vocal), Grade 10, Open**[back to Arts](#)

This course emphasizes performance of vocal music at a beginner level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop thorough understanding of the language of music, including the elements, terminology and its appropriate use.

Prerequisite: None

AMV3M1: Music (Vocal), Grade 11, University/College Preparation

This course develops students' artistic knowledge and skills through the performance of vocal music. Students will perform appropriate works, including works in contemporary popular and classical styles. Independently and in groups, they will also plan, market and produce music productions, making use of appropriate technology, and will evaluate the results.

Prerequisite: AMV2O1

AMV4M1: Music (Vocal), Grade 12 Open

This course emphasizes the performance, appreciation, and analysis of vocal music. Included will be music from the romantic period, twentieth century, jazz, popular music, art music, and Canadian and non-Western music. Students will focus on developing interpretive skills and the ability to work independently.

Prerequisite: AMV3M1

ARTS – DANCE

ATC2O1: Dance, Grade 10, Open

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This course emphasizes the development of students' technique and creative skills relating to the elements of dance and the tools of composition in a variety of performance situations. Students will identify responsible and interpersonal practices related to dance processes and production, and will apply technologies and techniques throughout the process of creation to develop artistic scope in the dance arts.

Prerequisite: None

ATC3O1: Dance, Grade 11, Open

This course emphasizes the development of students' movement vocabulary relating to dance genres from around the world, and of their understanding of the elements of dance and the tools of composition in a variety of performance situations. Students will research and explain how physical, intellectual, and artistic skills developed in dance can be applied in a wide range of careers. They will apply tools and techniques throughout the process of creation and presentation, and reflect on how studies in the dance arts affect personal identity.

Prerequisite: None

ATC3M1: Dance, Grade 11, University/College Preparation

This course emphasizes the development of students' artistry, improvisational and compositional skills, and technical proficiency in dance genres from around the world. Students will apply dance elements, techniques, and tools in a variety of ways, including performance situations; describe and model responsible practices related to the dance environment; and reflect on how the study of dance affects personal and artistic development.

Prerequisite: ATC2O1

ATC4M1: Dance, Grade 12, University/College Preparation

This course emphasizes the development of students' technical proficiency, fluency in the language of movement in dance genres from around the world, and understanding of dance science. Students will explain the social, cultural, and historical contexts of dance; apply the creative process through the art of dance in a variety of ways; and exhibit an understanding of the purpose and possibilities of continuing engagement in the arts as a lifelong learner.

Prerequisite: ATC3M1

ARTS – VISUAL ARTS

AVI1O1: Visual Arts, Grade 9, Open

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Have you ever wished you could draw more realistically? This course will help you do that, along with improving your sketching, perspective drawing, people drawing, painting and clay sculpting skills. You will learn a variety of design concepts which could be applied to many other courses and careers. No experience is necessary to be successful in gr. 9 art.

This course is exploratory in nature, offering an overview of visual arts as a foundation for further study. Students will become familiar with the elements and principles of design and the expressive qualities of various materials by using a range of media, processes, techniques, and styles. Students will use the creative and critical analysis processes and will interpret art within a personal, contemporary, and historical context.

AVI2O1: Visual Arts, Grade 10, Open

Have you ever wanted to become a better drawer and painter? This course will further develop your art skills through acrylic painting studies, three-point perspective, portrait drawing and sculpture.

This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.

Prerequisite: None

AVI3O1: Visual Arts, Grade 11, Open

Calling all students who have a creative flair. This course provides experienced and inexperienced art students a chance to explore and develop their interests in drawing, painting, sculpting and printmaking.

This course focuses on studio activities in the visual arts, such as drawing, painting, sculpture, photography, printmaking, collage, and/or multimedia art. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context.

Prerequisite: None

AVI3M1: Visual Arts, Grade 11, University/College Preparation

This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collages, multimedia works, and works using emergent technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular art form (e.g. photography, video, computer graphics, and information design).

Prerequisite: AVI1O1 or AVI2O1

AVI4E: Visual Arts, Grade 12, Workplace[back to Arts](#)

This course focuses on a practical approach to a variety of art and design projects related to the workplace and community landscapes. Students will use the creative process to produce a traditional and/or digital portfolio of their work in a variety of media. They will also use the creative process through a hands-on approach to refine their skills and knowledge with a variety of media. Students will focus on various aspects which may include: street art and graffiti, graphic arts, and a look at current contemporary artists and trends.

Prerequisite: AVI3O1

AVI4M1: Visual Arts, Grade 12, University/College Preparation

This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts.

Prerequisite: AVI3M

BUSINESS STUDIES**BTT1O1: Information and Communication Technology in Business, Grade 9, Open**

This course introduces students to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, spreadsheet, database, desktop publishing, presentation software and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communications skills, and current issues related to the impact of information and communication technology.

BBI2O1: Introduction to Business, Grade 10, Open

This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information and communication technology, human resources, and personal finance, and the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives. Videos, internet applications and hands-on activities will be used on a regular basis. Financial literacy is a major focus area.

Prerequisite: None

BAF3M1: Introduction to Financial Accounting, Grade 11, University/College Preparation[back to Business](#)

This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and ethics and current issues in accounting. Computer applications in Excel and Simply Accounting will be used to reinforce concepts.

Prerequisite: None

BDI3C: Entrepreneurship – The Venture, Grade 11, College Preparation

This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a school-based or student-run business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.

Prerequisite: None

BAT4M1: Principles of Financial Accounting, Grade 12, College/University[back to Business](#)

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. Computer applications in "MS Excel" and "Simply Accounting" will be used to enrich student understanding.

Prerequisite: BAF3M1

BDV4C1: Entrepreneurial Studies, Grade 12, College Preparation

Students will create and participate in entrepreneurial learning and working environments. Industry standard software and computer simulations will assist students as they explore examples of entrepreneurial skills and learn to apply them to potential areas of business growth in the local economy and beyond. They will learn how enterprising skills may be utilized and how innovation plays a role in business development. They will apply this understanding with the creation of a business plan which develops a specific product or company.

Prerequisite: none

BOG4E1: Organizational Studies: Managing a Small Business, Grade 12, Workplace Preparation

This course helps students prepare for managerial positions in their future careers. Students will focus on the development of core skills required to become a successful manager, including operations management, inventory control, marketing, financial planning, scheduling, and communication. Students will also explore the management challenges of hiring, training, and motivating employees, and complying with legal requirements. Students will examine stories of successful people in business, explore leadership styles and learn about ways to motivate employees. Video and a computer simulation "Go Venture" will be used to enrich learning.

Prerequisite: None

BBB4MV*: International Business Fundamentals, Grade 12, University/College Prep -- *offered as an eLearning course only!

This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. 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, including international business, marketing, and management.

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Prerequisite: None

***A letter of intent acknowledging that delivery and student expectations for e-learning courses is different than face-to-face courses must be completed by each student. Students can access the letter of intent for completion from the guidance/student services office.**

BOH4MV*: Business Leadership: Management, Grade 12, University/College Prep - *offered as an eLearning course only!

This course focuses on the development of leadership skills used in managing a successful business. Students will analyse the role of a leader in business, with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility are also emphasized.

Prerequisite: None

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CANADIAN AND WORLD STUDIES – ECONOMICS & LAW**CIA4UV* - Analyzing Current Economic Issues, Grade 12 University -- This is available an eLearning course!**[back to CWS](#)

This course examines current Canadian and international economic issues, developments, policies, and practices from diverse perspectives. Students will explore the decisions that individuals and institutions, including governments, make in response to economic issues such as globalization, trade agreements, economic inequalities, regulation, and public spending. Students will apply the concepts of economic thinking and the economic inquiry process, as well as economic models and theories, to investigate, and develop informed opinions about, economic trade-offs, growth, and sustainability and related economic issue reasoning will be used to explore current national and world issues which have an impact on workers, business and governments.

Prerequisite: Any University or University/College (M level) preparation course in Canadian and World Studies, English, or Social Sciences and Humanities

***A letter of intent acknowledging that delivery and student expectations for e-learning courses is different than face-to-face courses must be completed by each student. Students can access the letter of intent for completion from the guidance/student services office.**

CLU3M1: Understanding Canadian Law, Grade 11, University/College Preparation

This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of laws relating to rights and freedoms in Canada; our legal system; and family, contract, employment, tort, and criminal law. Students will develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating a range of legal issues and formulating and communicating informed opinions about them.

Prerequisite: *CHC2D or CHC2P*

CLN4C1: Legal Studies, Grade 12, College Preparation

This course provides a foundation for students who wish to pursue a career that requires an understanding of law. Students will explore the importance of law, analysing contemporary legal issues and their relevance to daily life. They will investigate the requirements for various law-related careers as well as legal responsibilities in the workplace. Students will apply the concepts of legal thinking and the legal studies inquiry process to investigate their rights and responsibilities, legal processes and structures, and the role of law in a changing society.

Prerequisite: *Civics and Citizenship, Grade 10, Open*

CLN4U1: Canadian and International Law, Grade 12, University Preparation[back to CWS](#)

This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop an understanding of the principles of Canadian and international law and of issues related to human rights and freedoms, conflict resolution, and criminal, environmental, and workplace law, both in Canada and internationally. Students will apply the concepts of legal thinking and the legal studies inquiry process, and will develop legal reasoning skills, when investigating these and other issues in both Canadian and international contexts.

Prerequisite: *Any university or university/college course in Canadian & World Studies, English, or Social Sciences and Humanities.*

CLN4UV* - Canadian & International Law, Grade 12, University -- This course is available as an eLearning course!

***A letter of intent acknowledging that delivery and student expectations for e-learning courses is different than face-to-face courses must be completed by each student. Students can access the letter of intent for completion from the guidance/student services office.**

CANADIAN AND WORLD STUDIES – GEOGRAPHY**CGC1D1: Geography of Canada, Grade 9, Academic**

This course explores Canada's distinct and changing character and the geographic systems and relationships that shape it. Students will investigate the interactions of natural and human systems within Canada, as well as Canada's economic, cultural, and environmental connections to other countries. Students will use a variety of geo-technologies and inquiry and communication methods to analyze and evaluate geographic issues and present their findings.

CGC1P1: Geography of Canada, Grade 9, Applied

This course focuses on geographic issues that affect Canadians today. Students will draw on personal and everyday experiences as they learn about Canada's distinct and changing character and the natural and human systems and global influences that shape the country. Students will use a variety of geo-technologies and inquiry and communication methods to examine practical geographic questions and communicate their findings.

CGC1PB: Geography of Canada, Grade 9, Modified[back to CWS](#)

This course draws upon students' everyday experiences and uses a variety of frameworks, including the eco-zone framework, to help students learn about the geography of Canada and the country's place in the global community. Students will investigate the interconnections among the country's landforms, climates, soils, plants, animals, and human activities in order to understand Canada's character and diversity.

CGG3O1: Travel and Tourism: A Regional Geographic Perspective, Grade 11, Open

This course focuses on travel and tourism as a vehicle for the study of selected world regions. Using a variety of geo-technologies 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.

Prerequisite: *CGC1P or CGC1D*

CGF3MV* - Forces of Nature: Physical Processes & Disasters – *this course is available 2017-18 as an elearning course!*

In this course, students will explore physical processes related to the earth's water, land, and air. They will investigate how these processes shape the planet's natural characteristics and affect human systems, how they are involved in the creation of natural disasters, and how they influence the impacts of human disasters. Throughout the course, students will apply the concepts of geographic thinking and the geographic inquiry process and use spatial technologies to analyse these processes, make predictions related to natural disasters, and assess ways of responding to them.

Prerequisite: CGC1D or CGC1P

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***A letter of intent acknowledging that delivery and student expectations for e-learning courses are different than face-to-face courses must be completed by each student. Students can access the letter of intent for completion from the Guidance office.**

CGR4MV*: The Environment and Resource Management, Grade 12 University/College Prep– *this is an elearning course only!*

This course investigates interactions between natural and human systems, with a particular emphasis on the impacts of human activity on ecosystems and natural processes. Students will use the geographic inquiry process, apply the concepts of geographic thinking, and employ a variety of spatial skills and technologies to analyse these impacts and propose ways of reducing them. In the course of their investigations, they will assess resource management and sustainability practices, as well as related government policies and international accords. They will also consider questions of individual responsibility and environmental stewardship as they explore ways of developing a more sustainable relationship with the environment.

Prerequisite: Any university, university/college, or college prep course in Canadian and world studies, English, or social sciences and humanities

***A letter of intent acknowledging that delivery and student expectations for e-learning courses are different than face-to-face courses must be completed by each student. Students can access the letter of intent for completion from the Guidance office.**

CGW4U1: Canadian and World Issues: A Geography Analysis, Grade 12, University Preparation

In this course, students will address the challenge of creating a more sustainable and equitable world. They will explore issues involving a wide range of topics, including economic disparities, threats to the environment, globalization, human rights, and quality of life, and will analyse government policies, international agreements, and individual responsibilities relating to them. Students will apply the concepts of geographic thinking and the geographic inquiry process, including the use of spatial technologies, to investigate these complex issues and their impacts on natural and human communities around the world

Prerequisite: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences

CANADIAN AND WORLD STUDIES -- HISTORY

CHV20H: Civics, Grade 10, Open

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy and the meaning of democratic citizenship in local, national and global contexts, about political reactions to social change and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them. This compulsory half course (0.5 credit) is combined with GLC20H (0.5 credit).

CHC2D1: Canadian History Since World War I, Grade 10, Academic

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This course explores the local, national and global forces that have shaped Canada's national identity from World War I to the present. Students will investigate the challenges presented by economic, social and technological changes and explore the contributions of individuals and groups to Canadian culture and society during this period. Students will use critical-thinking and communication skills to evaluate various interpretations of the issues and events of the period and to present their own points of view.

CHC2P1: Canadian History Since World War I, Grade 10, Applied

This course explores some of the events and experiences that have influenced the development of Canada's identity as a nation, from World War I to the present. By examining how the country has responded to economic, social and technological changes and how individuals and groups have contributed to Canadian culture and society during this period, students will develop their ability to make connections between historical and current events. Students will have opportunities to formulate questions, locate information, develop informed opinions and present ideas about the central issues and events of the period.

CHC2LL: Canadian History in the Twentieth Century, Grade 10, Locally Developed[back to CWS](#)

This course focuses on the connections between the student and key people, events, and themes in Canadian history from World War I to the present. Students prepare for the Grades 11 and 12 Workplace Preparation history courses through the development and extension of historical literacy and inquiry skills. Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships, and changes since 1914, are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practice reading, writing, visual, and oral literacy skills, and mathematical literacy skills to identify and communicate ideas in a variety of forms.

CHW3M1: World History to the Sixteenth Century, Grade 11, University/College Preparation

This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.

Prerequisite: CHC2P or CHC2D

CHT3O1: World History Since 1900: Global Regional Perspectives, Grade 11, Open

This course focuses on major developments in world history from 1900 to the present. Students will explore the causes and consequences of global & regional conflicts, the impact of significant individuals & social movements, and the effects of social, economic, & political developments around the world. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating interactions within and between nations and other historical developments and events, including those that continue to affect people in various parts of the world.

Prerequisite: CHC2L or CHC2P or CHC2D

CHM4E1: Adventures in World History, Grade 12, Workplace Preparation

This course examines significant developments and events in world history from earliest times to the present. Students will explore a variety of social, cultural, economic, and political developments in different regions of the world and during different periods. In addition to investigating how conflict, religion, work, and technology have helped shape people's lives, students will examine the contributions of some significant individuals to our global heritage. Students will apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating a variety of human experiences in world history.

Prerequisite: CHC2L or CHC2P or CHC2D

CHY4U1: World History: The West and the World, Grade 12, University Preparation[back to CWS](#)

This course investigates the major trends in Western civilization and world history from the sixteenth century to the present. Students will learn about the interaction between the emerging West and other regions of the world and about the development of modern social, political and economic systems. They will use critical-thinking and communication skills to investigate the historical roots of contemporary issues and present their conclusions.

Prerequisite: Any university or university/college preparation course in Canadian & World Studies, English, or Social Sciences & Humanities.

CHY4C1: World History: The West and the World, Grade 12, College Preparation

This course explores the history of the world since the sixteenth century, emphasizing the interaction between the emerging West and other regions of the world. Students will learn about a variety of economic, social and political systems and the changes they have undergone over time. Students will apply their developing skills of historical inquiry to understand and communicate ideas about the forces that have formed our modern world.

Prerequisite: Any university, university/college, or college course in Canadian and World Studies, English, or Social Sciences & Humanities

COMPUTER STUDIES

Please see Technological Education – Computer Technologies section

CO-OPERATIVE EDUCATION

GWL302/GLN402 (2 credit, gr.11/12) or GLN404 (4 credit, gr.11/12) - Cooperative Education Linked to a Related Course(s)

This course consists of a community-connected experience and a cooperative education curriculum that incorporates relevant expectations from the student's related course (or courses). Students will develop skills, knowledge, and habits of mind that will support them in their learning at school and beyond, today and in the future, as well as in their education and career/life planning. Within the context of the community-connected experience, students will apply, extend, and refine skills and knowledge acquired in their related course or courses and will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being. They will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.

Prerequisite: None, GLC20 recommended

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- ▶ All students will be interviewed prior to beginning the program.
- ▶ During the interview process, students will be provided with a Co-op Information Form. The students' interests will be discussed at this time along with specific course expectations. These forms must be returned to the Co-op office.

Important Note: Students may be required to have a criminal reference check and/or various immunizations (flu shot, TB test) prior to the start of placement. Please speak with a member of the Coop department for more information.

Orillia Secondary School offers a Specialist High Skills Major designation in two sectors: Construction as well as Health and Wellness. All SHSM students must complete at least one 2 credit Co-op placement as part of the program requirements. Summer Co-op may be an option between grades 10 & 11 or between grades 11 & 12.



ENGLISH

ENG1D1: English, Grade 9, Academic

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This is our first course in the University / College pathway and will begin preparing students for the reading, writing, and thinking required for post-secondary school. It is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in the secondary school academic programs and in their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts to effective communication. Texts studied will include short stories from a variety of authors and perspectives, some one-act plays, potentially a Shakespearean play, and an in-depth study of *To Kill a Mockingbird*. Writing tasks will vary from a variety of paragraphs to a literary essay.

ENG1P1: English, Grade 9, Applied

This is our first course in the College / Workplace pathway and will begin preparing students for the reading, writing, and thinking required for post-secondary school. It is designed to develop the key oral communication, reading, writing and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students' comprehension of texts and to help them communicate clearly and effectively. Texts studied will include short stories from a variety of authors and perspectives, some short plays, and an in-depth study of *The Blue Helmet*. Writing tasks will focus on improving literacy skills and will build towards the expository paragraph and multi-paragraph opinion piece.

ENG1LL: English, Grade 9, Locally Developed

This course emphasizes the key reading, writing, oral communication and thinking skills students need for success in secondary school and in their daily lives. The program builds toward the Grade 10 essential English course and works toward preparing students to enter the Grade 11 course in English at the Workplace level, as well as to complete the literacy test successfully. Students read a variety of narrative and expository forms, poetry, and drama and practice the skills necessary for clear and accurate spoken and written language. Course activities will help develop confidence and self-esteem and provide motivation to succeed in school and life.

ENG2D1: English, Grade 10, Academic

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This is our second course in the University / College pathway and will continue preparing students for the reading, writing, and thinking required for post-secondary school. It is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in the secondary school academic programs and in their daily lives. Students will analyze 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. Texts studied will include short stories from a variety of authors and perspectives, *Romeo and Juliet*, and an in-depth study of either *House of the Scorpion*, *Lord of the Flies*, *The Book Thief*, or *Fahrenheit 451*. Writing tasks will vary from a variety of paragraphs to literary essays.

Prerequisite: ENG1D

ENG2P1: English, Grade 10, Applied

This is our second course in the College / Workplace pathway and will continue preparing students for the reading, writing, and thinking required for post-secondary school and the workforce. It is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in secondary school and daily life. Students will study and create a variety of informational, literary, and graphic texts. An important focus will be on the consolidation of strategies and processes that help students interpret texts and communicate clearly and effectively. Texts studied will include short stories from a variety of authors and perspectives, 'The Melville Boys' play, and an in-depth study of Crabbe and will also include an independent novel study or literature circle study. Writing tasks will focus on improving literacy skills, the expository paragraph and multi-paragraph opinion piece, as well as informational writing.

Prerequisite: ENG1D or ENG1P

ENG2LL: English, Grade 10, Locally Developed

This course emphasizes the key reading, writing, oral communication and thinking skills students need for success in secondary school and in their daily lives. The program builds on the Grade 9 essential English course and works toward preparing students to enter the Grade 11 course in English at the workplace level and to attempt the literacy test with success. Students explore a variety of narrative and expository forms, poetry, and drama and refine the skills necessary for clear and accurate spoken and written language. Course activities further the development of confidence and self-esteem and provide motivation to succeed in school and life

Prerequisite: ENG1LL, ENG1P, or ENG1D

ENG3U1: English, Grade 11, University Preparation

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This is our third course in the University pathway and will focus primarily on the thinking and writing necessary for study in university. It emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. Texts studied will include a variety of short stories and informational texts from numerous sources, an in-depth study of *Motorcycles and Sweetgrass*, an independent study unit, and a study of the play 'The Rez Sisters'. The writing tasks will focus on developing the literary essay, methods of development, and there will be a variety of assignments helping students develop their critical thinking skills.

Prerequisite: ENG2D

NBE3C1: English: Contemporary Aboriginal Voices, Grade 11, College Preparation

This is our third course in the College pathway and will focus primarily on the thinking and writing necessary for study in College. The course focuses on the same expectations of the ENG3C course, with additional expectations around the cultures and voices of our FNMI population to help students understand the importance of developing their voice as they prepare for College. It emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by Aboriginal writers. Students will study the content, form, and style of informational texts and literary and media works, and will develop an appreciation of the wealth and complexity of Aboriginal writing. Students will also write reports, correspondence, and persuasive essays, and analyse the relationship between media forms and audiences. An important focus will be on establishing appropriate voice and using business and technical language with precision and clarity. Texts studied will include a variety of informational texts, some creation stories, an in-depth study of *Indian Horse* or *The Absolutely True Diary of a Part-time Indian*, and an independent study unit ending in a research report or presentation. The writing tasks will focus on informational and report writing.

Prerequisite: ENG2P or ENG2D

ENG3E1: English, Grade 11, Workplace Preparation

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This is our third course in the workplace pathway and is designed to prepare students for the writing and communication expectations of the workplace. 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. Texts studied will include a class novel study, informational and graphic texts, and assignments will focus primarily on information and persuasive writing in preparation for the workforce.

Prerequisite: ENG2L or ENG2P or ENG2D

ENG4C1: English, Grade 12, College Preparation

This is our final course in the College pathway and will focus primarily on the thinking and writing necessary for study in College. It emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze 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. Texts studied will include a variety of informational texts and essays from the *Passages* text, and in-depth study of *Night*, *Tuesdays with Morrie*, or *All Quiet on the Western Front*. Students will also complete an independent study ending in a research report and media presentation. The writing tasks will focus on informational and report writing.

Prerequisite: ENG3C

ENG4E1: English, Grade 12, Workplace Preparation

This is our final course in the workplace pathway and is designed to prepare students for the writing and communication expectations of the workplace. Texts studied will include a class novel study, informational and graphic texts, and assignments will focus primarily on information and persuasive writing in preparation for the workforce.

Prerequisite: ENG3E

ENG4U1: English, Grade 12, University Preparation

[back to English](#)

It emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze 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. Texts studied will include a variety of essays and informational texts from numerous sources, an in-depth study of either *Fifth Business*, *A Separate Peace*, *The Stone Angel*, or *The Grapes of Wrath*, and a class study of *“Hamlet”*. The independent study unit will focus on a comparison essay based on two independent novels, and will require the presentation of a media piece based on these works. The writing tasks will focus on perfecting the literary essay, incorporating rhetorical devices, and there will be a variety of assignments helping students develop their critical thinking skills.

Prerequisite: ENG3U

ENG4UP: English, Advanced Placement, Grade 12 (University Preparation)

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. *The Advanced Placement (AP) English (ENG4U) course is an accelerated and advanced level program designed to meet the rigorous requirements of the American College Board examination in May, allowing students to experience university level programming while still in high school.*

Prerequisite: ENG3U

EWC4U1: The Writer's Craft, Grade 12, University Preparation

This course emphasizes knowledge and skills related to the craft of writing. Students will analyze models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project and investigate opportunities for publication and for writing careers.

Prerequisite: ENG3U

EWC4C1: The Writer's Craft, Grade 12, College Preparation

This course emphasizes knowledge and skills related to the craft of writing. Students will investigate models of effective writing; use a workshop approach to write a variety of works; and make considered decisions for improving the quality of their writing. They will also complete a creative or analytical independent study project and investigate opportunities for publication and for writing careers.

Prerequisite: ENG3U or ENG3C

OLC3O1: Ontario Literacy Course, Grade 11, Open**OLC4O1: Ontario Literacy Course, Grade 12, Open**[back to English](#)

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.

Prerequisite: *Student must have been eligible to write the OSSLT at least once and has been unsuccessful at least once.*

FIRST NATIONS, METIS, INUIT STUDIES**NAC2O1: First Nations, Métis, and Inuit Peoples in Canada, Grade 10, Open**[back to FNMI studies](#)

This course explores the histories of First Nations, Métis, and Inuit peoples in Canada from pre-contact to the present day. Students will examine the impact of past social, cultural, economic, political, and legal trends and developments on First Nations, Métis and Inuit communities and individuals. Students will apply the concepts of historical thinking and the historical inquiry process to investigate a range of issues, events, and interactions that have affected First Nations, Métis, and Inuit peoples, including those that continue to affect relations between Aboriginal peoples and other Canadians today.

Prerequisite: *None*

NBV3E1: World Views and Aspirations of First Nations, Métis, and Inuit Peoples in Canada, Grade 11, Workplace

This course explores diverse world views and aspirations of First Nations, Métis, and Inuit peoples in Canada. Students will examine issues of identity facing First Nations, Métis, and Inuit individuals and communities with respect to changing relationships with the land, nature, one another, and Canada. Students will explore their own world views, and the factors that shape world views over time, to develop an understanding of how traditional and contemporary values influence the aspirations of First Nations, Métis, and Inuit peoples.

Prerequisite: *NAC2O, CHC2D, CHC2L, CHC2P*

FRENCH**FSF1D1: Core French, Grade 9, Academic**

This course emphasizes the further development of oral communication, reading and writing skills. Students will build on and apply their knowledge of French while exploring a variety of themes, such as relationships, mysteries, monsters and the environment. Thematic readings, which include a selection of short stories, articles and poems, will serve as stepping stones to oral and written activities.

FSF1P1: Core French, Grade 9, Applied[back to French](#)

This course emphasizes the concurrent development of oral communication, reading, and writing skills, using a broad-based theme such as the media. Students will enhance their ability to understand and speak French through conversations, discussions, and presentations. They will also read short stories, articles, poems, and songs, and write brief descriptions, letters, dialogues, and invitations.

FSF1O1: French, Grade 9, Open

This is an introductory course for students who have little or no knowledge of French or who have not accumulated the minimum of 600 hours of elementary Core French instruction. Students will begin to understand and speak French in guided and structured interactive settings, and will develop fundamental communication skills through discussing situations and issues that are relevant to their daily lives. Throughout the course, students will develop their awareness of diverse French-speaking communities in Canada and acquire an understanding and appreciation of these communities. They will also develop a variety of skills necessary to become life-long language learners.

FSF2D1: Core French, Grade 10, Academic[back to French](#)

This course enables students to increase their knowledge of the French language, further develop their language skills, and deepen their understanding and appreciation of Francophone culture around the world. Exploring a variety of themes, students will develop and apply critical thinking skills in discussion, in their analysis and interpretation of texts, and in their own writing. Students will further develop their language skills, and deepen their understanding and appreciation of Francophone culture around the world. An example of this would be the celebration of the Quebec Winter Carnival that hosts traditional events such as making snow sculptures and tasting beaver tails.

Prerequisite: *FSF1D*

FSF2P1: Core French, Grade 10, Applied

This course enables students to increase their knowledge of the French language. Exploring a variety of themes, students will develop and apply critical thinking skills in their listening, oral and written language abilities. They will also further develop their communication skills by deepening their understanding and appreciation of Francophone culture around the world. An example of this would be the celebration of the Quebec Winter Carnival that hosts traditional events such as making snow sculptures and tasting beaver tails.

Prerequisite: FSF1P or FSF1D

FSF3U1: Core French, Grade 11, University Preparation

This course draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their reading of a variety of materials, including a short novel and a play. Students will produce various written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. Exposure to amusing YouTube clips, online games, current French music, movies and traditional instruction all give students the opportunity to have fun while learning.

Prerequisite: FSF2D

FSF4U1: Core French, Grade 12, University Preparation[back to French](#)

This course draws on a variety of themes to promote extensive development of French-language skills. Students will refine 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. Students should be prepared to use French as the language of communication in class. They will write a research paper (1500 – 2500 words); read novels/plays and/or short stories/passages. Students will gain a greater understanding of French Culture by creating a unit of study of their choice. Examples may include fashion, food, famous figures in history, sports, music and literature. To enhance their communicative skills, students may have the chance to converse with their peers in debates, in café settings, or play a sport, such as floor hockey or volleyball. Students may have the opportunity to participate in a mini coop at the elementary school Samuel de Champlain whereby they help create fun games/lessons to instruct children.

Prerequisite: FSF3U

INTERNATIONAL AND CLASSICAL LANGUAGES**LWGBD1: German, Introductory Level, Academic**[back to Languages](#)

This course is designed to enable students to begin to communicate with native speakers of the language of study. Students will use simple language and read age-appropriate passages for various purposes. They will explore aspects of the culture of countries where the language is spoken, including social customs and the arts, by participating in cultural events and activities involving both print and technological resources. In the past, students have participated in events such as German Oktoberfest in Kitchener/Waterloo, a Christmas market, a restaurant excursion, and cooking labs. Exposure to amusing YouTube clips, internet resources, movies and traditional instruction give students the opportunity to have fun while learning.

Prerequisite: None

LWGCU1: German, Level 2, University Preparation

This course offers students opportunities to further develop their knowledge of the German language and to enhance their communication skills. Students will use increasingly sophisticated language in a variety of activities that will enable them to speak and write with clarity and accuracy. Students will also enhance their thinking skills through the critical study of literature, and continue to explore aspects of the culture of countries where the language is spoken through a variety of print and technological resources. In this course second level students will have fun furthering their knowledge of German language and culture to have fun while learning.

Prerequisite: Introductory German Course, LWGBD1

LWGDU1: German, Level 3, University Preparation

This course prepares students for university studies in the German language. Students will enhance their ability to use German with clarity and precision, and will develop the language skills needed to engage in sustained conversations and discussions, understand and evaluate information, read diverse materials for both study and pleasure, and write clearly and effectively. Students will also have opportunities to add to their knowledge of the culture of countries where German is spoken through the use of community resources and computer technology. In this final level of German, students will prepare for university study of German language and culture.

Prerequisite: German, Level 2, LWGCU1

LVLBD1: Classical Languages, Introductory Level, Academic

This course introduces students to the language of Latin and the daily lives of the Romans (e.g. homes, slavery, gladiators, etc.). Students learn to read and write in Latin while following the stories of a family living in Pompeii in 79 A.D. Students are taught Latin at a comfortable pace with mainly in-class work. The course is taught in English as Latin is no longer a spoken language. Assignments include tests, projects, translations, models and re-enactments. The students play games often to practice what they have learned. Learning Latin helps students improve their understanding of the vocabulary in both the French and English languages.

Prerequisite: none

LVLCU1: Classical Languages, Level 2, University Preparation[back to Languages](#)

This course continues from level one. Students learn more complex grammar and more vocabulary. The stories are set Egypt and Britain from the time when they were Roman provinces exploring topics such as science, religion and medicine. This course offers more independence. Many games are played so that the students can learn their vocabulary in a multitude of ways. This course is taught in English. Students create a main project about one of the Seven Wonders of the Ancient World, as well as tests, translations and projects.

Prerequisite: Latin Level 1, LVLBD1

LVLDU1: Classical Languages, Level 3, University Preparation

This course continues from level two. Students learn even more complex grammar found in Latin and English. Students will reach a level where they can read Latin written by original authors. The Roman life section focuses on far more specific aspects of the lives of Romans in Britain, such as the standard plan for a fort and how to decipher tomb stones from warriors. The final project includes the opportunity to translate an original Latin text. This course is a grade 12 university credit.

Prerequisite: Latin Level 2, LVLBU1

LWS (Spanish) /LKK (Korean): Languages for Travel, Grades 11/12, Open

This course introduces students to language elements they will need to begin to communicate with fluent speakers in foreign countries. Students will participate in action-oriented activities in which they can directly apply their knowledge and skills. They will explore aspects of the culture of countries where the language is spoken, including social customs, music and food. Learning activities will include sharing international cuisine and the performance of short but practical skits to aid in travel and communication. The study of German, Spanish, Korean, and an independent language of choice will be featured.

Prerequisite: none

GUIDANCE AND CAREER EDUCATION**GLE1O1: Learning Strategies, Grade 9, Open**

This course focuses on learning strategies to help students become better, 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 community. The course helps students build confidence and motivations to pursue opportunities for success in secondary school and beyond.

Note: Selection of this course requires SERT recommendation.

GLC2OH: Career Studies, Grade 10, Open[back to Guidance](#)

This course teaches students how to develop and achieve personal goals for future learning, work and community involvement. Students will assess their interests, skills and characteristics and investigate current economic and workplace trends, work opportunities and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions and helps students focus on their goals through the development of a career plan. This compulsory half course (0.5 credit) is combined with CHV20H, Civics (0.5 credit).

GLE3O1/GLE4O1: Advanced Learning Strategies, Grade 11/12, Open

This course improves students' learning and personal-management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal-management techniques to maximize their learning. Students will investigate trends and resources to support their postsecondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.

Note: Selection of this course requires SERT recommendation.

INTERDISCIPLINARY STUDIES

IDC3O1/ IDC4O1: Applied Journalism - Yearbook, Grade 11/ Grade 12, Open

[back to Interdisciplinary Studies](#)

This course will help students create informative print, media, and electronic products for school and community audiences in diverse formats (e.g., yearbook entries, newspapers, radio and television broadcasts, photojournalism, web pages). Students will investigate sources of information and compare differing perspectives on key issues, developing both a sense of news and news judgment. They will also learn editorial conventions and practices, principles of print and web design, and management skills, and will explore legal and ethical uses of information that is made public, as well as journalism careers. The application of these skills will be developing the school yearbook.

Prerequisite: None

IDC4U1: Studies in Education – Leadership, Grade 12, University Preparation

This course prepares and motivates students to provide leadership to others in their school and communities. In customizing this course students will explore leadership styles and concepts through an interdisciplinary focus in different subject areas. The curriculum will be delivered through on-line assignments, weekly lunch-hour classroom sessions and a practicum experience working in a grade 9 or 10 classroom. They will also undertake a leadership role in organizing a school-wide event or other individually assigned activity. Students will acquire a knowledge of self and others, and focus on teaching, learning, communication and conflict, while reflecting on real-life situations and career opportunities in interdisciplinary endeavors.

Students must complete an information form and attend an interview for placement purposes.

Prerequisite: Any University level course in English, Canadian and World Studies or Social Science and Humanities.

MATHEMATICS

MPM1D1: Principles of Mathematics, Grade 9, Academic

This course enables students to develop an understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will generalize as equations of lines, and will determine the connections between different representations of a linear relation. They will also explore relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

MF1P1: Foundations of Mathematics, Grade 9, Applied

[back to Mathematics](#)

This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

MAT1LL: Essential Mathematics, Grade 9, Locally Developed

This course provides students who have experienced significant difficulties in previous mathematics courses an opportunity to obtain sufficient background and skill development to prepare them for Grade 11 and 12 workplace preparation courses. Whenever possible, ideas will be presented in a real-life context, providing students with an opportunity to explore, organize, interpret, and use mathematical models to solve problems. Technology and manipulative materials will be used wherever appropriate. Assessment and evaluation will be done using a wide variety of strategies. Note: This course is recommended for any student that has struggled with concepts and confidence up to and including grade eight.

MPM2D1: Principles of Mathematics, Grade 10, Academic

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems. **Prerequisite:** MPM1D1

MF2P1: Foundations of Mathematics, Grade 10, Applied

[back to Mathematics](#)

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems. **Prerequisite:** MF1P1 or MPM1D1

MAT2LL: Practical Mathematics, Grade 10, Locally Developed Course

This course enables students to deepen their knowledge and understanding of the basic concepts in patterns and relationships, measurement and geometry and proportionality through hands-on activities. Students will extend their problem-solving experiences in a variety of applications. The effective use of technology in learning and in problem solving will be emphasized as well as links to careers and preparation for the world of work. Note: This course is recommended for any student that has struggled with concepts and confidence up to and including grade nine.

Prerequisite: Any grade 9 Math

MCR3U1: Functions and Relations, Grade 11, University Preparation

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: MPM2D1

MCF3M1: Functions and Relations, Grade 11, University/College Preparation

[back to Mathematics](#)

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: MPM2D1 or MFM2P1 (MPM2D1 strongly recommended)

MBF3C1: Foundations for College Mathematics, Grade 11, College Preparation

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analyzing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MFM2P1 or MPM2D1

MEL3E1: Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MFM1P1 or MPM1D1 or MAT2LL

MCV4U1: Calculus and Vectors, Grade 12, University Preparation

[back to Mathematics](#)

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 modeling 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.**

Prerequisite or Co-requisite: MHF4U

MHF4U1: Advanced Functions and Introductory Calculus, Grade 12, University Preparation

This course extends students' experience with functions. Students will investigate the properties of polynomial, exponential, rational, logarithmic, and trigonometric functions; broaden their understanding of the mathematics associated with 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.**

Prerequisite: MCR3U or MCT4C

MDM4U1: Data Management, Grade 12, University Preparation

This course broadens students' understanding of mathematics as it relates to managing information. Students will apply methods for organizing large amounts of information; solve problems involving counting techniques, probability, and statistics; and carry out a culminating project that integrates the expectations of the course. Students will refine their use of the mathematical processes necessary for success in senior mathematics. **Students planning to pursue university programs in business, the social sciences or the humanities will find this course of particular value.**

Prerequisite: MCF3M or MCR3U

MAP4C1: Foundations for College Mathematics, Grade 12, College Preparation[back to Mathematics](#)

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, and human services, and for certain skilled trades.**

Prerequisite: MBF3C, MCF3M, MCR3U

MEL4E1: Mathematics for Everyday Life, Grade 12, Workplace Preparation

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 accommodation 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.

Prerequisite: MEL4E

HEALTH & PHYSICAL EDUCATION**PPL1OF (Females) / PPL1OM (Males): Healthy Active Living Education, Grade 9, Open**[back to Health & Physical Education](#)

This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. 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.

PPL2OF (Females) / PPL2OM (Males): Healthy Active Living Education, Grade 10, Open

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. 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.

PPL3OF (Females) / PPL3OM (Males): Healthy Active Living, Grade 11, Open

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students 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.

PPL4O1: Healthy Active Living Education, Grade 12, Open[back to Health & Physical Education](#)

This co-ed 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.

PAF3O1: Healthy Living and Personal & Fitness Activities, Grade 11, Open

This co-ed course emphasizes a *collaborative* and *differentiated* approach to learning where regular participation in a variety of enjoyable physical activities and an exposure to a wide range of activity settings will promote lifelong healthy active living. Student learning will focus on developing skills related to personal fitness that are required to make healthy choices. A strong focus will be placed on the application of movement principles to refine skills, participation in a variety of fitness activities, developing personal fitness and investigating health topics that provide a foundation for active living. Students will 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.

PAF4O1: Healthy Living and Personal & Fitness Activities, Grade 12, Open

This co-ed course emphasizes a collaborative and differentiated approach to learning where students learn to maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Student learning will focus on further developing the skills required to make healthy choices. A strong focus will be placed on the application of movement competence, participation in a variety of fitness activities, developing personal fitness and building confidence. Students will also acquire an understanding of the factors and skills that contribute to healthy development and learn how their well-being is affected by, and affects, the world around them. They will build their sense of self and develop their ability to think critically and creatively.

PAL3O1: Healthy Living and Large Group Activities: Basketball focus, Grade 11, Open**PAL4O1: Healthy Living and Large Group Activities: Basketball focus, Grade 12, Open**

This co-ed course will explore detailed movement principles that relate to the specific sport of Basketball. Regular active participation in a variety of learning environments will allow students the opportunity to learn about basketball related skills and fundamentals as well as ways to improve fitness, physical competence and injury prevention as it coincides with the sport. Each student will participate in activities designed to develop goal setting, communication and living skills as they pertain to sport and positive healthy relationships with peers and teammates. This course will also investigate and implement the Basketball Inquiry Model. This model will help improve thinking and communication skills while developing a better understanding of the various intricacies of the sport as it relates to offensive and defensive systems, sport psychology and performance enhancing strategies such as healthy eating and substance use. Finally, students will have the chance to learn about and explore a variety of basketball related career opportunities through experiential learning initiatives.

PSK4U1: Introductory Kinesiology, Grade 12, University Preparation
[back to Health & Physical Education](#)

This classroom-based 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 sport, and the physiological, psychological, and social factors that influence an individual's participation in physical activity and sport. The course prepares students for university programs in physical education and health, kinesiology, health sciences, health studies, recreation, and sports administration.

Prerequisite: any grade 11 university or university/college course in Science, or any grade 11/12 course in Health & Physical Education



Orillia Secondary School offers a Specialist High Skills Major designation in Health and Wellness. Students can choose an emphasis in Health Care or in Fitness & Health Promotion. Grade 11 & 12 courses in the areas of Health & Physical Education, Science, Social Sciences & Humanities, as well as Health Care Technology form the foundation of this program. Interested students should contact their Guidance Counsellor to assist in coordinating their academic program and to register for SHSM.

SCIENCE

SNC1D1: Science, Grade 9, Academic
[back to Science](#)

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to relate science to technology, society, and the environment. Throughout the course, students will develop their skills in the processes of scientific investigation. Students will acquire an understanding of scientific theories and conduct investigations related to sustainable ecosystems; atomic and molecular structures and the properties of elements and compounds; the study of the universe and its properties and components; and the principles of electricity.

SNC1P1: Science, Grade 9, Applied

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

SNC1LL: Science, Grade 9, Locally Developed

This course develops science-related knowledge and skills to prepare students for success in everyday life, in the workplace and in the grade 10 locally developed Science course. Students explore scientific topics that connect with their lives by engaging in practical science activities.

SNC2D1: Science, Grade 10, Academic[back to Science](#)

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 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.

Prerequisite: SNC1D1 or SNC2P1

SNC2P1: Science, Grade 10, Applied

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to human cells and body systems; chemical reactions; factors affecting climate change; and the interaction of light and matter.

Prerequisite: SNC1D1 or SNC1P1

SNC2LL: Science, Grade 10, Locally Developed

This course develops science-related knowledge and skills to prepare students for success in everyday life, in the workplace and in grade 11 or 12 Workplace Science courses. Students explore scientific topics that connect with their lives by engaging in practical science activities.

Prerequisite: SNC1LL

SNC4E1: Science, Grade 12, Workplace Preparation

This course provides students with fundamental science knowledge and workplace skills needed to prepare them for success beyond secondary school. Students will explore hazards in the workplace, chemicals in consumer products, disease and its prevention, electricity at home and at work, and nutritional science. Emphasis is placed on current topics in science and relevant, practical activities that develop students' literacy and mathematical literacy skills and enhance their scientific literacy.

Prerequisite: SNC1D, SNC1P, SNC1L, SNC2D or SNC2P

SCIENCE -- BIOLOGY**SBI3C1: Biology, Grade 11, College Preparation**

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.

Prerequisite: SNC2D1, SNC2P1

SBI3U1: Biology, Grade 11, University Preparation[back to Science](#)

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.

Prerequisite: SNC2D1

SBI4U1: Biology, Grade 12, University Preparation

This course provides students with the opportunity for in-depth study of the concepts and processes that occur with 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 achievement of the detailed knowledge and refinement of skills needed for further study in various branches of the life sciences and related fields.

Prerequisite: SBI3U

SCIENCE -- CHEMISTRY

SCH3U1: Chemistry, Grade 11, University Preparation

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.

Prerequisite: SNC2D1

SCH4U1: Chemistry, Grade 12, University Preparation

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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. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment.

Prerequisite: SCH3U

SCH4C1: Chemistry, Grade 12, College Preparation

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.

Prerequisite: SNC2D or SNC2P

SCIENCE – ENVIRONMENTAL SCIENCE

SVN3E1: Environmental Science, Grade 11, Workplace Preparation

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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.

Prerequisite: SNC1L, SNC1D, SNC1P, SNC2D, SNC2P, SNC2L

SVN3M1: Environmental Science, Grade 11, University/College Preparation

This course provides students with the fundamental knowledge of, and skills relating, to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the reduction of management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.

Prerequisite: SNC2D or SNC2P

SCIENCE -- PHYSICS

SPH3U1: Physics, Grade 11, University Preparation

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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 analyze the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

Prerequisite: SNC2D1

SPH4C1: Physics, Grade 12, College Preparation

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.

Prerequisite: SNC2D or SNC2P

SPH4U1: Physics, Grade 12, University Preparation

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, gravitation, 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 analyze, quantitatively and qualitatively, technological applications of physics on society and the environment.

Prerequisite: SPH3U

SPH4UP: Physics, Advanced Placement, Grade 12, University

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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, gravitation, 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 analyze, quantitatively and qualitatively, technological applications of physics on society and the environment. *The Advanced Placement (AP) (SPH4U) Physics course is an accelerated and advanced level program designed to meet the rigorous requirements of the American College Board examination in May, allowing students to experience university level programming while still in high school.*

Prerequisite: SPH3U

SOCIAL SCIENCES & HUMANITIES – FAMILY STUDIES

HIF101: Exploring Family Studies, Grade 9, Open

This course explores, within the context of families, 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. They will learn about 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.

HLS301: Housing and Home Design, Grade 11, Open

This course introduces students to a range of issues related to housing and home design. Students will learn about the needs that housing fulfils; housing options; home maintenance and safety; and environmental, economic, legal, and social considerations related to housing. They will use the elements and principles of design to analyse design and decorating decisions. Students will develop research skills as they investigate issues related to housing and home design.

Prerequisite: None

HIP401: Personal Life Management, Grade 12, Open

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This course focuses on preparing students for living independently and working successfully with others. Students will learn to manage their personal resources to meet their basic needs for food, clothing, and housing. They will also learn about their personal, legal, and financial responsibilities and develop and apply interpersonal skills in order to make wise and responsible personal and occupational choices. Students will apply research and inquiry skills while investigating topics related to personal life management. The course emphasizes the achievement of expectations through practical experiences.

Prerequisite: None

Many Canadians have children in their lives in some aspect. These courses will provide you with useful information and practical skills needed to raise happy, healthy children. You will also have the opportunity to interact with children in placement situations or experience a weekend with a "Reality Baby" or a school day in a "Pregnancy Belly". These are the courses for you if you see children in your future or want to work in a career with children or adolescents.

HPC301: Raising Healthy Children, Grade 11, Open

This course focuses on the skills and knowledge needed to promote the positive and healthy nurturing of children, with particular emphasis on the critical importance of the early years to human development. Students will learn how to meet the developmental needs of young children, communicate and discipline effectively and guide early behaviour. They will have practical experiences with infants, toddlers and preschoolers, and will learn skills in researching and investigating questions relating to parenting.

Prerequisite: None

HPD4C1: Working with School-Age Children & Adolescents, Grade 12, College

This course prepares students for occupations involving school-age children and adolescents. Students will study a variety of theories about child behaviour and development, and will have opportunities for research and observation and for practical experiences with older children. Students will become familiar with occupational opportunities and requirements related to working with older children and adolescents. They will develop research skills used in investigating child and adolescent behaviour and development.

Prerequisite: Any university, college, or university/college preparation course in social sciences and humanities, English, or Canadian and world studies

SOCIAL SCIENCES & HUMANITIES – FOOD & NUTRITION

Do you have an inner master chef? Would you like to be comfortable in the kitchen preparing food safely, that is tasty and appealing, for your whole family? Are you interested in the relationship between food and health? These are the courses for you! Foods and Nutrition courses provide you with weekly hands-on experiences preparing and eating food. You will also learn the basics of how to prepare healthy meals on a budget and everything you need to know about food and kitchen safety while having fun!

HFN2O1: Food and Nutrition, Grade 10, Open

This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food-marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food-preparation skills and introduces them to the use of social science research methods in the area of food and nutrition.

Prerequisite: None

HFC3E1: Food and Culture, Grade 11, Workplace Preparation

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This course focuses on the flavours, aromas, cooking techniques, foods, and cultural traditions of world cuisines. Students will demonstrate the ability to cook with ingredients and equipment from a range of cultures, describe food-related etiquette in a variety of countries and cultures, and explore ways in which Canadian food choices and traditions have been influenced by other cultures. Students will have opportunities to develop practical skills and apply research skills as they investigate foods and food practices from around the world.

Prerequisite: None

HFL4E1: Food and Healthy Living, Grade 12, Workplace Preparation

This course focuses on the fundamental food needs of young adults. Students will learn how to stock a kitchen, make nutritious food choices, and accommodate the food needs of others. Through a range of practical experiences, they will develop skills needed in food preparation for personal use and of employment in the food industry. They will also learn about dining etiquette in different contexts and about responsible consumer practices. Students will use social science research methods to investigate issues related to food preparation and nutrition.

Prerequisite: None

HFA4U1: Nutrition and Health, Grade 12, University Preparation

This course examines the relationships between food, energy balance, and nutritional status; the nutritional needs of individuals at different stages of life; and the role of nutrition in health and disease. Students 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

Prerequisite: Any university or university/college, preparation course in Social Sciences and Humanities, English, or Canadian and World Studies.

HFA4C1: Nutrition and Health, Grade 12, College Preparation

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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.

Prerequisite: Any university, university/college, or college course in Social Sciences and Humanities, English, or Canadian & World Studies.

SOCIAL SCIENCES & HUMANITIES

Are you interested in how the human mind works? Why do people behave as they do in groups? Maybe you are thinking of a career in counselling, policing or forensics or education. These courses are for you if you are interested in understanding why people do what they do. These courses provide an excellent foundation in the basics of psychology, sociology and anthropology. You will have opportunities to understand and apply theories to real-world examples, discuss current events, listen to guest speakers, engage in research and analyze your own behaviour.

HSP3U1: Introduction to Anthropology, Psychology, and Sociology, Grade 11, University Preparation

This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science research, and to become familiar with current thinking on a range of issues with the three disciplines.

Prerequisite: ENG2D or CHC2D

HSP3C1: Introduction to Anthropology, Psychology, and Sociology, Grade 11, College Preparation

This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. Students will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues with the three disciplines.

Prerequisite: None

HSB4U1: Challenge and Change in Society, Grade 12, University Preparation

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This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behavior and their impact on society. Students will critically analyse how and why cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyse causes of and responses to challenges such as technological change, deviance, and global inequalities. Students will explore ways in which social science research methods can be used to study social change.

Prerequisite: Any university or university/college course in Social Sciences and Humanities, English or Canadian and World Studies.

HSE4MV*: Equity and Social Justice, Grade 12 University/College Preparation -- *this is only available as an eLearning course!*

This course enables students to develop an understanding of the theoretical, social, and historical underpinnings of various equity and social justice issues and to analyse strategies for bringing about positive social change. Students will learn about historical and contemporary equity and social justice issues in Canada and globally. They will explore power relations and the impact of a variety of factors on equity and social justice. Students will develop and apply research skills and will design and implement a social action initiative relating to an equity or social justice issue.

Prerequisite: Any university, college, or university/college prep course in social sciences and humanities, English, or Canadian and world studies

***A letter of intent acknowledging that delivery and student expectations for e-learning courses are different than face-to-face courses must be completed by each student. Students can access the letter of intent for completion from the guidance/student services office.**

SOCIAL SCIENCES & HUMANITIES -- FASHION

By the end of these courses you will be able to create a wearable garment using a pattern and a sewing machine. You will understand the elements of design - colour, shape, fabric and how to care for your garments. You will have the opportunity to add your flair and creativity to the clothes you wear and you will begin assembling your own fashion portfolio.

HNC3C: Understanding Fashion, Grade 11, College preparation

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This course introduces students to the world of fashion. Students will gain an understanding of theories related to fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behaviour. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. In addition, students will apply knowledge of fibres, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion.

Prerequisite: None

HNB4M: The World of Fashion, Grade 12, University/College preparation

This course gives students the opportunity to explore the world of fashion. Students will learn how to create a fashion product using various tools, techniques, and technologies while developing their practical skills. Students will learn about various factors that affect the global fashion industry, the needs of specialized markets, and the impact of fiber and fabric production and care. In addition, they will learn about social and historical influences on fashion. Students will apply research skills when investigating aspects of the fashion world.

Prerequisite: Any university, college, or university/college course in Social Sciences & Humanities, English, or Canadian & World Studies

TECHNOLOGY EDUCATION

TECHNOLOGY EDUCATION IS FOR EVERYONE!

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Taking shop classes is not just for students that want to go directly to the workplace after high school. Although earning money while completing an apprenticeship instead of paying for an education is a great reason to take shop, it is also important for students that are seeking a university or college education. Skills learned in shop classes are transferable to many university and college courses giving students that extra advantage by being familiar with technical procedures.

TECHNOLOGY STUDIES

TIJ101: Exploring Technologies, Grade 9 Open

This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues, and will begin to explore secondary and post-secondary education and training pathways leading to careers in technology-related fields.

Do you like working with your hands? Does the thought of sitting at a desk for 75 minutes make you restless? Are you interested in building products in a variety of the shops? If you answered yes to any of these questions then the grade 9 Exploring Technologies course is for you! You will have the chance to see what technology has to offer while spending time and building projects in multiple shop settings. You could build bridges and learn house wiring, or learn how to change tires and service vehicles, or build fighting robots that destroy or program them to follow a path. You will also have the opportunity to run lathes, welders and even our CNC Plasma cutter that can cut anything you can draw. In the grade 9 program you may also have the chance to work with AutoCAD and Inventor to design items that you can then print with our 3D printer. The possibilities are endless when you take a chance and see what the Technology department can offer.

TECHNOLOGY STUDIES -- COMMUNICATION

TGJ201: Communications Technology, Grade 10, Open

This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications, photography, and interactive new media & animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology, and will explore secondary and post-secondary education and training pathways and career opportunities in the various communications technology fields.

TGJ3M1: Communications Technology, Grade 11, University/College Preparation

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This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include 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 develop an awareness of related environmental and societal issues and explore post-secondary and career opportunities in the various communications technology fields.

Prerequisite: None

TGJ4M1: Communications Technology, Grade 12, University/College

This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. 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.

Prerequisite: TGJ3M

TECHNOLOGY STUDIES – COMPUTER TECHNOLOGIES

TEJ20: Computer Technology, Grade 10, Open

This course introduces students to computer systems, networking, and interfacing, as well as electronics and robotics. Students will assemble, repair, and configure computers with various types of operating systems and application software. Students will build small electronic circuits and write computer programs to control simple peripheral devices or robots. Students will also develop an awareness of related environmental and societal issues, and will learn about secondary and postsecondary pathways and career opportunities in computer technology.

Prerequisite: None

TEJ3E1: Computer Technology, Grade 11, Workplace Preparation

This course enables students to develop knowledge and skills related to computer hardware, networks, operating systems, and other software. Students will use utility and application software, and learn proper procedures for installing, maintaining, and troubleshooting computer systems and networks. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about apprenticeships and other employment opportunities in the field of computer technology that they may choose to pursue after graduation.

Prerequisite: None

TEJ3M1: Computer Engineering Technology, Grade 11, University/College Preparation

This course examines computer systems and control of external devices. Students will assemble computers and small networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming, and networks, and will build systems that use computer programs and interfaces to control and/or respond to external devices. Students will develop an awareness of related environmental and societal issues, and will learn about college and university programs leading to careers in computer technology.

Prerequisite: None

TEJ4E1: Computer Technology, Grade 12, Workplace Preparation

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This course enables students to further develop their practical understanding of computer hardware, software, networks, and operating systems. Students will use utility and application software, and will follow proper procedures for installing, maintaining, and troubleshooting computer systems and networks. In addition to demonstrating an understanding of the ethical use and environmental effects of computers, students will develop marketable skills and assess career opportunities in the field.

Prerequisite: TEJ3E

TEJ4M1: Computer Engineering Technology, Grade 12, University/College Preparation

This course extends students' understanding of computer systems and computer interfacing with external devices. Students will assemble computer systems by installing and configuring appropriate hardware and software, and will learn more about fundamental concepts of electronics, robotics, programming, and networks. Students will examine related environmental and societal issues, and will explore postsecondary pathways leading to careers in computer technology.

Prerequisite: TEJ3M or for 2016-17 only: ICS3C, ICS3U



Orillia Secondary School offers a Specialist High Skills Major designation in Construction with an emphasis on Fabrication. Programming spans Grades 11 & 12 and supports learning in all pathways. In addition to major credits in a variety of technology areas (construction, woodworking, tech design, manufacturing and transportation), students will complete a 2 or 4 credit Co-op experience in a related sector plus obtain industry recognized certifications.

Interested students should contact their Guidance Counsellor for more information.

TECHNOLOGY STUDIES -- CONSTRUCTION

TCJ2O1: Construction Technology – Building, Grade 10, Open

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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.

If you like to work with your hands to create incredible projects from simple pieces of wood, then Construction/Woodworking is the course for you. Taking this course allows you to use a variety of hand and power tools to create projects like tables, jewelry boxes, DVD or game stands and anything you can think of. In the shop you will begin to understand how to create working drawings, fabricate, assemble, and finish your projects while keeping the impact on the environment to a bare minimum. You will find vast career opportunities in construction/woodworking and how to pursue them.

Prerequisite: None

TCJ3C1: Construction Technology, Grade 11, 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 explore career opportunities in the field.

Prerequisite: None

TCJ3E1: Construction Technology, Grade 11, Workplace Preparation

This course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore postsecondary and career opportunities in the field.

Prerequisite: None

TCJ4C: Construction Engineering Technology, Grade 12, College Preparation[back to Technology](#)

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 explore career opportunities in the field.

Prerequisite: TCJ3C

TCJ4E: Construction Technology, Grade 12, Workplace Preparation

This course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands on experience using a variety of materials, processes, tools, and equipment; create and interpret construction drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial construction. Students will also expand their awareness of environmental and societal issues related to construction technology and explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.

Prerequisite: TCJ3E

TWJ3E1: Custom Woodworking, Grade 11, Workplace Preparation

This course enables students to develop knowledge and skills related to cabinet making and furniture making. Students will gain practical experience using a variety of the materials, tools, equipment, and joinery techniques associated with custom woodworking. Students will learn to create and interpret technical drawings and will plan, design, and fabricate projects. They will also develop an awareness of environmental and societal issues related to the woodworking industry, and explore apprenticeships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.

Prerequisite: None

TWJ4E1: Custom Woodworking, Grade 12, Workplace Preparation[back to Technology](#)

This course enables students to further develop knowledge and skills related to the planning, design, and construction of cabinets and furniture for residential and/or commercial projects. Students will gain further experience in the safe use of common woodworking materials, tools, equipment, finishes, and hardware, and will learn about the entrepreneurial skills needed to establish and operate a custom woodworking business. Students will also expand their awareness of health and safety issues and environmental and societal issues related to woodworking, and will explore career opportunities that may be pursued directly after graduation.

Continue to fine tune your skills to create incredible projects from simple pieces of wood, composites, or other manmade materials. Taking Custom Woodworking allows you to use a variety of precision hand and power tools to create projects like entertainment units, chairs, tables, baseball bats or other turned parts or any of the other several thousand project ideas. In the wood shop you will plan your own projects or build one of the many projects for people in the community, create working drawings, fabricate, assemble, and finish your projects while keeping the impact on the environment to a bare minimum. You will find out the vast career opportunities in woodworking and how to pursue them in college or right out of high school.

Prerequisite: TWJ3E

TDJ201: Technological Design, Grade 10, Open[back to Technology](#)

This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and learn about secondary and postsecondary education and training leading to careers in the field.

Students will begin to work with the design process, beginning with the fundamentals of sketching and progressing through computer aided drafting. Students will have the opportunity to design small residential buildings, develop story boards, create 3D models, and get a good sense of what Tech. Design entails.

Prerequisite: None

TDJ301: Technological Design and the Environment, Grade 11, Open

This course enables students to apply a systematic process for researching, designing, building, and assessing solutions to address specific human and environmental challenges. Through their work on various projects, students will explore broad themes that may include aspects of industrial design, mechanical design, architectural design, control system design, and/or apparel design. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary pathways leading to careers in the field.

Have you ever thought about designing or creating objects and not had the ability to make them? In this course students will have the opportunity to learn how to interpret, review and create drawings and objects using sketching as well as computer aided design. Students will be able to create the home of their dreams with the latest version of AutoCAD and also be able to draw 3D objects and create the object using the 3D printer.

Prerequisite: None

TDJ3M1: Technological Design, Grade 11, University/College

This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them.

Calling all students who have a creative flair and those interested in creating drawings and objects in 3D and having the ability to make those objects using the 3D printer! Students will explore computer aided drafting and create site plans, house designs, section drawings and a variety of projects that relate to Tech. Design. Students interested in drawing and drafting, interior design, architecture, engineering, building, or 3D design, this is the course for you.

Prerequisite: None

TDJ401: Technological Design in the Twenty-first Century, Grade 12, Open[back to Technology](#)

This course focuses on the relationship between society and technological development. Students will use appropriate tools, techniques, and strategies to research, design, build, and assess prototypes for products and/or processes that respond to society's changing needs. Students will describe how social factors, including culture, media, politics, religion, and environmental concerns, influence technological design. Students will also learn about professional practices in the field, and will research postsecondary pathways leading to careers related to technological design.

Have you ever thought of designing or creating objects and not had the ability to make them? In this course, students have the opportunity to learn how to interpret, review and create drawings and objects using sketching as well as computer aided design. Students will be able to create the home of their dreams with the latest version of AutoCAD and also be able to draw, and create, 3D objects using the 3D printer.

Prerequisite: None

TDJ4M1: Technological Design, Grade 12, University/College

This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their 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 for them.

A set of plans for a commercial building are interpreted and redrawn to scale in a Google SketchUp 3 dimensional environment. A scale model is then made of the three floor plan. Students then pick a new challenge to design a solution for. Roller coaster ride, solar heaters, container housing concepts and a variety of new projects picked from a list. Project skill level varies based on college or university programs.

Prerequisite: TDJ3M

TECHNOLOGY STUDIES – HEALTH CARE

TPJ2O1: Health Care, Grade 10, Open

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This course introduces students to personal health promotion, child and adolescent health concerns, and a variety of medical services, treatments, and technologies. Students will become familiar with various instruments and equipment and will learn about human anatomy, organs, and body chemistry, as well as the effects that lifestyle choices can have on personal well-being. They will plan recreational activities for youth, perform a dietary analysis, and evaluate health care practices. Students will develop an awareness of environmental and societal issues related to health care, and will explore secondary and post-secondary pathways leading to careers in the field.

Prerequisite: None

TPJ3C1: Health Care, Grade 11, College Preparation

This course enables students to develop their understanding of basic health care procedures, including the safe use of appropriate instruments, equipment, and materials. Students will focus on health care fundamentals, including health care terminology and the anatomical features and physiology of some major body systems. Students will develop an awareness of health and safety issues in the health care field, environmental and societal issues related to health care, professional practice standards, and career opportunities in the field.

Prerequisite: None

TPJ3M1: Health Care, Grade 11, University/College Preparation

This course enables students to develop their understanding of basic health care procedures, including the safe use of appropriate instruments, equipment, and materials. Students will focus on health care fundamentals, including the anatomical features and physiology of the major body systems and the factors that affect homeostasis in the human body. Students will develop an awareness of health and safety issues in the health care field, environmental and societal issues related to health care, professional practice standards, and career opportunities in the field.

Prerequisite: None

TPJ4E1: Health Care – Support Services, Grade 12, Workplace Preparation

This course enables students to develop the basic skills needed for careers in a range of health care support services. Students will practise and apply a variety of clinical procedures and infection control skills as they learn about principles of infection control, service excellence, and the nature of the health care industry. Students will also investigate workers' health and safety issues, environmental and societal issues related to health care, and career opportunities in the field.

Prerequisite: None

TPJ4M1: Health Care, Grade 12, University/College Preparation

This course focuses on the development of a range of skills needed to analyse and interpret clinical findings. Students will learn about accepted health care practices and demonstrate an understanding of basic procedures and the use of appropriate instruments and equipment. They will acquire an understanding of basic concepts related to the function of the human immune system and explore the relationship between pathology and disease prevention and treatment. Students will expand their awareness of workers' health and safety issues, analyse environmental and societal issues related to health care, and further explore professional practice standards and postsecondary destinations in the field.

Prerequisite: TPJ3M

TECHNOLOGY STUDIES -- MANUFACTURING

TMJ2O1: Manufacturing Technology, Grade 10, Open

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This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary and postsecondary pathways leading to careers in the industry.

You can operate machines or do things that are done in the metal working industry. You will use the torches, welders and metal cutting machines such as lathes and mill to build projects. If you have something you want to fix or build for yourself and you have learned how to use the equipment needed then you may be able to it. On the computer you will draw parts, create simple programs to run computerized machines in the shop.

Prerequisite: None

TMJ3E1: Manufacturing Technology, Grade 11, Workplace Preparation

This hands-on, project-based course is designed for students planning to enter an occupation or apprenticeship in manufacturing directly after graduation. Students will work on a variety of manufacturing projects, developing knowledge and skills in design, fabrication, and problem solving and using tools and equipment such as engine lathes, milling machines, and welding machines. In addition, students may have the opportunity to acquire industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary school pathways that lead to careers in the industry.

You can take this course without having taken the grade 9 or 10 course. You will start with simple projects such as making a screw driver, meat tenderizer or weld a wire person designed by you. By the second term you will be able to design and build your own projects or work on projects such as building or fixing trailers, making snowboard rails, chess pieces or personal tools. The "E" in the course code means that this course leads to the workplace so you will do almost all of your work in the shop.

Prerequisite: None

TMJ3C1: Manufacturing Technology, Grade 11, College Preparation

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This course enables students to develop knowledge and skills through hands-on, project-based learning. Students will acquire design, fabrication, and problem-solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.

You can take this course without having taken the grade 9 or 10 course. You will start with simple projects such as making a screw driver, meat tenderizer or weld a wire person designed by you. By the second term you will be able to design and build your own projects or work on projects such as building or fixing trailers, making snowboard rails, chess pieces or personal tools. The "C" in the course code means that this course is to get you ready for a college course so although you will do a lot of your work in the shop you will also work on the computer to learn to create drawings or make drawings for your projects. You will also have the opportunity to write programs and run the computer milling machine.

Prerequisite: None

TMJ3M1: Manufacturing Engineering Technology, Grade 11, University/College Preparation

This course enables students to develop knowledge and skills related to design, process planning, control systems, and quality assurance. Students will use a broad range of tools and equipment and will combine modern manufacturing techniques and processes with computer-aided manufacturing as they develop critical decision-making, problem-solving, and project-management skills. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.

You can take this course without having taken the grade 9 or 10 course. You will start with simple projects such as making a screw driver, meat tenderizer or weld a wire person designed by you. By the second term you will be able to design and build your own projects or work on projects such as building or fixing trailers, making snowboard rails, chess pieces or personal tools. The "M" in the course code means that this course is to get you ready for a college or university course so although you will do a lot of your work in the shop you will also work on the computer learning to create drawings or making drawings for your projects. You will also have the opportunity to write programs and run the computer milling machine.

Prerequisite: None

TMJ4E1: Manufacturing Technology, Grade 12, Workplace Preparation

This project-driven, hands-on course builds on students' experiences in manufacturing technology. Students will further develop knowledge and skills related to the use of engine lathes, milling machines, welding machines, and other related tools and equipment as they design and fabricate solutions to a variety of technological challenges in manufacturing. Students may have opportunities to acquire industry-standard training and certification. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry. You will be able to design and build your own projects or work on projects such as building or fixing trailers, making snowboard rails, chess pieces or personal tools. The "E" in the course code means that this course leads to the workplace so you will do almost all of your work in the shop.

Prerequisite: TMJ3E

TMJ4C1: Manufacturing Technology, Grade 12, College Preparation

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This course enables students to further develop knowledge and skills related to machining, welding, print reading, computer numerical control (CNC), robotics, and design. Students will develop proficiency in using mechanical, pneumatic, electronic, and computer control systems in a project-based learning environment and may have opportunities to obtain industry-standard training and certification. Students will expand their awareness of environmental and societal issues and career opportunities in the manufacturing industry.

You will be able to design and build your own projects or work on projects such as building or fixing trailers, making snowboard rails, chess pieces or personal tools. The "C" in the course code means that this course is to get you ready for a college course so although you will do a lot of your work in the shop you will also work on the computer learning to create drawings or making drawings for your projects. You will also have the opportunity to write programs and run the computer milling machine.

Prerequisite: TMJ3C

TMJ4M1: Manufacturing Engineering Technology, Grade 12, University/College Preparation

This course enables students to further develop knowledge and skills related to design, process planning, control systems, project management, quality assurance, and business operations. Students will use a broad range of tools and equipment, enhance their skills in computer-aided design, and collaborate in managing a project. Students will critically analyse and solve complex problems involved in manufacturing products. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry.

You will be able to design and build your own projects or work on projects such as building or fixing trailers, making snowboard rails, chess pieces or personal tools. The "M" in the course code means that this course is to get you ready for a college or university course so although you will do a lot of your work in the shop you will also work on the computer learning to create drawings or making drawings for your projects. You will also have the opportunity to write programs and run the computer milling machine.

Prerequisite: TMJ3M

TECHNOLOGY STUDIES -- TRANSPORTATION

TTJ2O1: Transportation Technology, Grade 10, Open

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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.

In this course you will be introduced to the service and maintenance of vehicles and watercraft and/or aircraft. You will also learn the skills related to repair and maintain techniques. In the course you're projects may include engine service, tire/wheel service, electrical/battery service and proper body care. You will also explore secondary and post-secondary path way us leading to careers in the transportation industry.

Prerequisite: None

TTJ3C1: Transportation Technology, Grade 11, 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.

You will develop knowledge and skills for testing, servicing and repairing engines, electrical, suspension, brakes and steering systems. You will learn communication and teamwork skills through practical tasks using a variety of tools and equipment. In the course you will develop awareness of environmental and societal issues related to transportation. You will also learn about apprenticeships and college programs leading to careers in the transportation industry.

Prerequisite: None

TTJ3O1: Transportation Technology: Vehicle Ownership, Grade 11, Open

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This general interest course enables students to become familiar with the options and features of various vehicles, issues of registration, and the legal requirements affecting vehicle owners. Students will also learn about vehicle financing and insurance, vehicle maintenance, emergency procedures, and the responsibilities of being a vehicle owner. Students will develop an awareness of environmental and societal issues related to vehicle ownership and use, and will explore career opportunities in the transportation industry.

You will become familiar with the options and issues of registration and the legal requirements of owning a vehicle. You will learn about financing, insurance, vehicle maintenance and responsibilities of vehicle ownership. The course will make you aware of environmental and societal issues related to vehicle owner ship. You will also explore career opportunities in the transportation industry.

Prerequisite: None

TTJ4C1: Transportation Technology, Grade 12, College Preparation

This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; power trains; 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.

In this course you will further develop technical knowledge and skills in all sections of the automobile, aircraft and/or watercraft; and /or small engines. You will refine your communication and teamwork skills through practical tasks, using a variety of tools and equipment. You will become more aware of environmental, societal, apprenticeship and college programs that will lead you to careers in the transportation industry.

Prerequisite: TTJ3C

TTJ4E1: Transportation Technology: Vehicle Maintenance, Grade 12, Workplace Preparation

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This course introduces students to the servicing, repair, and maintenance of vehicles through practical applications. The course is appropriate for all students as a general interest course to prepare them for future vehicle operation, care, and maintenance or for entry into an apprenticeship in the motive power trades. Students will develop an awareness of environmental and societal issues related to transportation and will learn about careers in the transportation industry and the skills and training required for them.

In this course you will be introduced to the servicing, repairing and maintenance of vehicles through hands on applications. This general interest course is to prepare you for vehicle operation, care, and maintenance or for entry into an apprenticeship in the motive power trades. You will develop an awareness of environmental and societal issues related to transportation and learn about careers in the transportation industry and the skills and training required for them.

Prerequisite: None

