

SIR WILFRID LAURIER SECONDARY SCHOOL ÉCOLE SECONDAIRE SIR WILFRID LAURIER 2018-2019

Course Calendar / Les cours

450 Millbank Drive
London, Ontario N6C4W7
519-452-2840

www.tvdsb.ca/SirWilfridLaurier.cfm

HOME OF THE RAMS



Principal: Ms. C. Major
Vice Principals: Mrs. L. Akano, Ms. K. Rank

REGISTRATION TIMELINES

GRADES 9 – 12 REGISTRATION	
February 6 & 7, 2018	Registration Assemblies
February 8 & 9, 2018	Grade 12: on-line registration through myBluePrint
February 12-16, 2018	Grades 9 & 11: on-line registration through myBluePrint
February 20-23, 2018	Grade 10: on-line registration through myBluePrint
March 22, 2018	Course Verification Forms distributed in homeroom or available in Guidance for students without a homeroom
March 29, 2018	Deadline to return signed Course Verifications Forms to Guidance with requested changes

POLICIES AND PROCEDURES

Minimum Credits per year:

Students in Grade 9 to 11 select 8 or 9 credits (with lunch hour music). Grade 12 students select a minimum of 6 credits. Remember that Co-Op is a two credit course.

Reporting Periods:

Laurier is a semestered high school. Formal mark reporting occurs in November and January for semester one and April and June for semester two. Parent/Teacher interviews are conducted one week after the first quarter reports.

Changing Courses: Please make course selections carefully. Students will have the opportunity to research courses and make final amendments in March 2018. After that, course changes will only be considered if the student's post-secondary plans change (resulting in different admission prerequisites), if the student does not acquire the course prerequisite, or if the student achieves the credit after selecting courses. All late course requests are subject to availability.

HELPFUL WEBSITES FOR POST –SECONDARY EXPLORATION

University Information

- Ontario Universities Application Centre www.ouac.on.ca
- Undergraduate Programs www.electronicinfo.ca

College Information

- Ontario College Application Services www.ontariocolleges.ca
- Dual Credit College Programs www.gotocollege.ca

Apprenticeship Information

- Ministry of Education www.edu.gov.on.ca
- Employment Ontario / Employment Training www.tcu.gov.on.ca
- Apprenticeship Training and Trade Certification www.skillsontario.com

Career Exploration & Course Planning

- Career Cruising www.careercruising.com
user id: wilfrid, password: laurier
- my Blueprint Educational Planner www.myblueprint.ca/tvdsb
login & password: same as your school account

Financial Planning

- OSAP (Ontario Student Assistance Program) www.osap.gov.ca
- Plans and budgets www.canlearn.ca

Scholarships

- Check out Guidance website and these sites: www.studentawards.com
www.studentawardscanada.com
www.scholarshipscanada.com

SCHOOL SERVICES

Guidance and Career Education Program

Each student has an assigned alpha counsellor. Guidance Counsellors are available to provide students with educational, career and personal support throughout their high school years. Through individual assistance, seminars and presentations, counsellors support students in exploring educational and occupational opportunities. In addition, counsellors are equipped to help students work through obstacles /barriers and to assist students with transitions to work, and to post-secondary education. Grade nine students receive the additional assistance of Laurier's peer helpers, who are senior students trained in communication skills. Peer helpers assist grade nine students in orientation, tutoring, and individual classroom support.

The Guidance section of Laurier's home page (www.tvdsb.ca/SirWilfridLaurier.cfm) provides links to career and post-secondary information. It also provides information on courses and related resources.

While in secondary school, students have many decisions to make regarding their future. The Guidance program provides Laurier students with practical information, to help guide them in their decision-making for future course selection and post-secondary plans. Parents/Guardians and students are encouraged to attend information sessions on pertinent topics such as course selection and post-secondary options, which will be held at Laurier and at other locations in the TVDSB.

GRADE 9	GRADE 10	GRADE 11	GRADE 12
<ul style="list-style-type: none"> • Peer Helping Program • orientation / RAMS Program • computer occupational search • in-class support • individual assistance • tutoring • course selection information • on-line registration support 	<ul style="list-style-type: none"> • Career Studies course • post-secondary and registration information sessions • on-line registration support 	<ul style="list-style-type: none"> • Presentations on: <ul style="list-style-type: none"> ○ graduation requirements ○ full disclosure ○ apprenticeships ○ post-secondary admission ○ scholarships ○ course selection information ○ interest inventories • on-line registration support 	Decisions Program <ul style="list-style-type: none"> • post-secondary information sessions • apprenticeship presentation • small group planning • scholarship information seminar • college/university visits to Laurier • city wide CIP & UIP • college & university application seminars • on-line p/s application support • OSAP/financial planning seminar • on-line registration support

Learning Support Program

Laurier serves a diverse population of learners. In the Learning Support Department, we offer a wide range of programs and services to assist students. Our staff is dedicated to providing a continuum of supports and resources that will enable all students to achieve their goals. We offer the following program services and supports: Assistance with course and program selections in high school, post-secondary transition planning, study skills and test-taking strategies, OSSLT preparation, EQAO math testing support, and credit support. The Learning Support Room -- Room 131 -- is open to students for extra help during every period (including lunch) all week.

TAG (Talented And Gifted) Program for Students

Laurier offers a variety of approaches to learning that are designed to maintain active engagement and to motivate students to use their talents and gifts to the best of their abilities. Students identified as gifted or high achieving often find that regular classroom learning and structures do not necessarily meet all of their specific needs. *Contact the Learning Support Teaching Staff for more information about all TAG opportunities.*

ELOPE: "Enriched Learning Opportunities through Progressive Enrichment". These are programs offered in workshop-style that are student-driven and offered onsite or in the community.

CURRICULUM COMPACTING: This program is designed for students in grades 9 and 10 to compact subjects to allow room for additional electives, AP prep, the WISE program (taking a University course at Western while in high school), prepping for SATs, or participating in alternate learning programs (e.g. eLearning, ELOPE, etc.).

IDC 4U COURSE: This is a Grade 12 University credit that is available to students starting in grade 10, with approval from staff and parents/guardians.

AP EXAMS: With the assistance of the Learning Support Staff, students prepare for exams set by the US-based College Board. Students pay a fee to write an exam of their choice during the month of May.

Student Success Program

The Student Success Team is comprised of the School Administration, Student Success Teacher (SST), Guidance Counsellors, Social Worker/Attendance Counsellor and Learning Support Teachers (LST). The team works hard to ensure that all students have every opportunity for success by monitoring student progress, attendance and behaviour. Students at risk of failing courses will be supported by the Student Success Team to work towards earning their credits. A concerted effort from classroom teachers, the Student Success Team and the parent/guardian to support each student's success is an essential part of this program

The Student Success Program works with students at-risk in their courses due to academic issues or other reasons. Student Success teachers support students by offering a variety of strategies to assist students in their learning. Homework Hub is a supervised lunch hour space where students can come to get help with their homework or complete assignments. Homework Hub is open 11:30 - 12:05 Monday to Thursday in Room 221.

Library Learning Commons (LLC)

The Laurier LLC has a full range of print and electronic resources for students. We have a wide selection of fiction and non-fiction books in both English and French to support personal reading as well as curriculum-related reading. The loan period for books is three weeks, with renewals available to extend the loan period. The LLC has both desktop and laptop computers available for students to use as they research and complete class assignments. The LLC is designed so that students have flexible study spaces for individual and group work as well as space for conferencing. The LLC program at Laurier delivers instruction in information literacy, research skills, resource selection, and accurate documentation of sources. All Laurier students have access to electronic databases provided by the Thames Valley District School Board. Students will use the LLC with classes for research projects and may access the LLC during lunch hour to complete homework.

International Certificate Program (ICP).

The ICP is an exciting opportunity for students who are interested in International Affairs. This program promotes global awareness through international experiences, cultural training workshops, language acquisition, pre-selected courses with an international focus and personal reflection. After completion of the required components, students will be awarded their certificate at the annual International Certificates Program ceremony in June of their graduating year.

French Immersion Certificate

THE SIR WILFRID LAURIER FRENCH IMMERSION CERTIFICATE

Students will earn a Sir Wilfrid Laurier French Immersion certificate if they successfully complete:

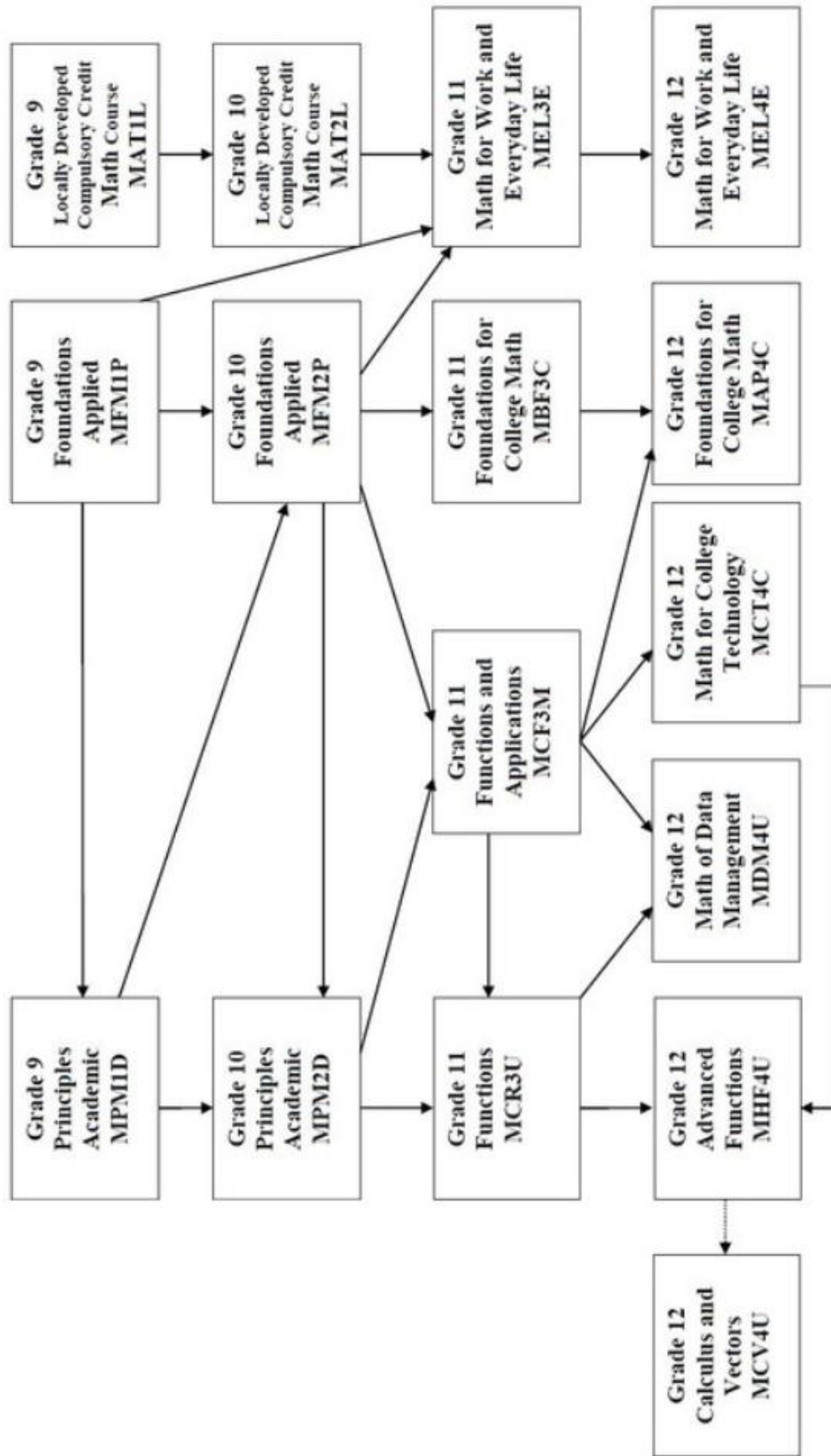
- **four** French Immersion language courses
- a minimum of **five** French Immersion courses at the intermediate level (Grades 9 and 10) in **other** subject areas
- a minimum of **three** French Immersion courses at the senior level (Grades 11 and 12) in **other** subject areas

THE ONTARIO FRENCH IMMERSION CERTIFICATE

Students will earn an Ontario French Immersion certificate if they successfully complete:

- **four** French Immersion language courses
- a minimum of **six** French Immersion courses in **other** subject areas

Mathematics Pathways Chart



MASTER TABLE OF COURSES 2018 – 2019

SUBJECT		GRADE 9	GRADE 10	GRADE 11	GRADE 12
Arts	Drama	ADA1O5	ADA2O1	ADA3M1	ADA4M1
	Music: Guitar	AMG1O5	AMG2O1	AMG3O1	AMG4M1
	Music: Vocal	AMV1O5	AMV2O1	AMV3M1	AMV4M1
	Music: Beginning Strings	AMS1OA	AMS2ON	AMS3M1	AMS4M1
	Music: Experienced Strings	AMS1OB			
	Music: Beginning Winds	AMI1OA	AMI2ON	AMI3M1	AMI4M1
	Music: Experienced Winds	AMI1OB			
	Music: Repertoire		AMR2OT AMR2OC	AMR3MS AMR3MB	AMR3MT AMR3MC
	Visual Arts	AVI1O5	AVI2O1	AVI3M1 AVI3O1	AVI4M1
Business Studies and Computer Studies	Business Studies	BTT1O5	BBI2O1		BBB4M1
	Accounting			BAF3M1	(BAT4M1)
	Entrepreneurial			BDI3C1	
	Marketing			BMI3C1	
	Programming		ICS2O1	ICS3U1	<u>ICS4U1</u>
	Applications			BTA3O1	
Canadian and World Studies	Geography	CGC1P1 CGC1D1		CGG3O1 CGF3M1	CGU4M1 CGR4M1 CGW4U1
	History		CHC2L1 CHC2P1 CHC2D1	CHW3M1 CHA3U1 NBV3C1	CHY4U1
	Civics		CHV2O5		
	Economics				(CIA4U1)
	Law			CLU3M1	CLN4U1
Cooperative Education				CO-OP	CO-OP
Adventures in Canadian History and English			2REACH (CHC2P1 & ENG2P1) 2EARNS (NAC2O1 & ENG2P1)		
English		ENG1L1 ENG1P1 ENG1D1	ENG2L1 ENG2P1 ENG2D1	ENG3E1 ENG3C1 ENG3U1 <u>EMS3O1</u>	ENG4E1 ENG4C1 ENG4U1 (EWC4U1) OLC4O1
French Immersion / Extended	French	FEF1DX FIF1DX	FEF2DX FIF2DX	FEF3UX FIF3UX	FEF4UX FIF4UX
	Geography	CGC1DX		CGF3MX	CGR4MX
	History		CHC2DX	CHW3MX	CHY4UX
	Math	MFM1PX MPM1DX	MFM2PX MPM2DX	MCF3MX MCR3UX	MHF4UX
	Science	SNC1DX	SNC2DX	SBI3UX	SBI4UX
	Sociology			HSP3UX	HSB4UX
	Civics		CHV2OX		
	Career Studies		GLC2OX		

MASTER TABLE OF COURSES 2017 - 2018

SUBJECT		GRADE 9	GRADE 10	GRADE 11	GRADE 12	
Guidance	Career Studies		GLC2O5	GWL3O1		
	Peer Helping			GPP3O1	IDC4UP	
Learning Support		GLE/GLS1O1 Teacher Recommends	GLE2O1 Teacher Recommends		IDC4UG Enrichment	
International Languages	French	FSF1P1 FSF1D1	FSF2D1	FSF3U1	FSF4U1	
	Greek		LBGBD1	LBGCU1		
	Spanish		LWSBD1	LWSCU1	LWSDU1	
Mathematics		MAT1L1 MFM1P1 MPM1D1	MAT2L1 MFM2P1 MPM2D1	MEL3E1 MBF3C1 MCF3M1 MCR3U1	MEL4E1 MAP4C1 MDM4U1 MHF4U1 MCV4U1*	
STEAM: Innovation for the 21st Century			2STEAM (MPM2D1 & SNC2D1)			
Physical Education & Health		PPL1OF PPL1OM	PPL2OF PPL2OM	PPL3OF PPL3OM PPZ3C1	PPL4OF PPL4OM PSK4U1	
Robotics			2ROBOT (BBI2O1 & TMJ2O1)	3ROBOT (SPH3U1 & ICS3U1)		
Science	General	SNC1L1 SNC1P1 SNC1D1	SNC2L1 SNC2P1 SNC2D1	SVN3E1		
	Biology			SBI3C1 SBI3U1	SBI4U1	
	Chemistry			SCH3U1	SCH4C1 SCH4U1	
	Physics			SPH3U1	SPH4C1 SPH4U1	
Social Sciences and Humanities	General	HIF1O5			HIP4O1	
	Fashion		HNL2O1	HNC3C1		
	Food/Nutrition		HFN2O1	HFC3E1	HFA4U1 HFL4E1	
	Parenting			HPC3O1	HPD4C1	
	Sociology			HSP3U1	HHS4U1 HSB4U1	
	World Religions			HRT3M1		
Technology	General	TIJ1O1				
	Communications	TGJ1O5	TGJ2O1	TGJ3M1	TGJ4M1	
	Construction			TCJ2O1	TCJ3E1 TCJ3C1 TCJ3C2 TCJ3E2 TWJ3E1	TCJ4E1 TCJ4C1 TCJ4C2 TCJ4E2 TWJ4E1
		Manufacturing		TMJ2O1	TMJ3E1 TMJ3C1	TMJ4E1 TMJ4C1
		Transportation		TTJ2O1	TTJ3O1 TTJ3C1	TTJ4E1 TTJ4C1

Notes

__ Offered in 2019-2020 and alternate years, but not in 2018-2019

() Offered in 2018-2019 and alternate years, but not in 2019-2020

* MCV4U1 must be taken concurrently or after MHF4U1

Co-Operative Education Program available in all senior courses (double credit)

Pathways

P – Applied, **D** – Academic, **O** – Open, **M** – University/College (Mixed), **C** – College, **U** – University, **E** – Workplace, **L** – Locally Developed

COURSE OFFERINGS

THE ARTS – DRAMA

ADA1O5 - Dramatic Arts

Grade 9 Open (½ credit)

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.

ADA2O1- 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.

ADA3M1- Dramatic Arts

Grade 11 University/College Preparation

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: Dramatic Arts, Grade 9 or 10 Open

ADA4M1- Dramatic Arts

Grade 12 University/College Preparation

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 texts 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 analyse how the knowledge and skills developed in drama are related to their personal skills, social awareness, and goals beyond secondary school.

Prerequisite: Dramatic Arts, Grade 11, University/ College Preparation

THE ARTS – MUSIC

Grade 9 Music Courses

Grade 9 Open

This course emphasizes the performance of music at a level that strikes a balance between challenge and skill and is aimed at developing technique, sensitivity, and imagination. Students will participate in creative activities that teach them to listen with understanding. They will also learn correct musical terminology and its appropriate use.

AMI1OA-Instrumental Music: Beginning Band

Offered at lunch, all year. No experience necessary.

AMI1OB-Instrumental Music: Experienced Band

Offered at lunch, all year. For students with experience on their instrument.

AMS1OA-Instrumental Music: Beginning Strings

Offered at lunch, all year. No experience necessary.

AMS1OB-Instrumental Music: Experienced Strings

Offered at lunch, all year. For students with experience on their instrument.

AMV1O5 Music: Vocal (½ credit)

Beginning singing instruction, focusing on voice production, reading music & theory.

AMG1O5 Music: Guitar (½ credit)

Beginning guitar, focusing on classical technique, reading music & theory.

AMI2ON-Band, AMV2O1-Vocal AMG2O1-Guitar, AMS2ON-Strings

Grade 10 Open

This course emphasizes performance of music at an intermediate 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 a thorough understanding of the language of music, including the elements, terminology and history.

AMI2ON and AMS2ON are offered during the lunch period for the entire year while AMV2O1 and AMG2O1 are semestered courses.

AMR2OC-Band, AMR2OT-Orchestra

Grade 10 Repertoire

This half credit course utilizes the study of (band) (strings) repertoire to enrich and expand the experience of students. Many different techniques, including recording, public performances and clinics will be utilized to develop a more thorough appreciation of their chosen method of musical expression. This is a half credit course and runs outside of the school day for the full year. Band repertoire courses will run on Tuesday and Thursday mornings and String repertoire courses will run on Tuesday and Friday mornings.

AMS3M1- Strings, AMI3M1- Band, AMV3M1- Vocal

Grade 11 University/College Preparation

These courses emphasize the appreciation, analysis, and performance of music, including baroque and classical music, popular music, and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyze and evaluate live performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities.

Prerequisite: Music, Grade 9 & 10, Open

AMR3MB - Band, AMR3MS - Orchestra**Grade 11 Music Repertoire - Part 1**

This half credit course utilizes the study of (band) (strings) repertoire to enrich and expand the experience of students. Many different techniques, including recording, public performances and clinics will be utilized to develop a more thorough appreciation of their chosen method of musical expression. This is a half credit course and runs outside of the school day for the full year. Band repertoire courses will run on Tuesday and Thursday mornings and String repertoire courses will run on Tuesday and Friday mornings.

AMG3O1 - Guitar**Grade 11 Open**

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

Prerequisite: Music, Grade 9 or 10, Open**AMR3MC – Band, AMR3MT - Orchestra****Grade 11 Music Repertoire - Part 2**

This half credit course utilizes the study of (band) (strings) repertoire to enrich and expand the experience of students. Many different techniques, including recording, public performances and clinics will be utilized to develop a more thorough appreciation of their chosen method of musical expression. This is a half credit course and runs outside of the school day for the full year. Band repertoire courses will run on Tuesday and Thursday mornings and String repertoire courses will run on Tuesday and Friday mornings.

AMS4M1 - Strings, AMI4M1 - Band, AMV4M1 - Vocal, AMG4M1 - Guitar**Grade 12 University/College Preparation**

This course emphasizes the appreciation, analysis, and performance of music from the romantic period and from the twentieth century, including jazz, popular music, art music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects in which they make use of new technologies.

Prerequisite: Music, Grade 11, University/College or Open

THE ARTS – VISUAL ARTS

AVI1O5 - Visual Arts**Grade 9 Open (½ credit)**

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**

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, however AVI1O is highly suggested**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 collage, and multimedia works. Students will use the critical analysis process when evaluating their own work and the work of others.

Prerequisite: Visual Arts, Grade 9 or 10, Open**AVI3O1 - Visual Arts****Grade 11 Open**

This course focuses on studio activities in one or more of the visual arts, including drawing, painting, sculpture, 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.

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 media and technologies. 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: Visual Arts, Grade 11, University / College Prep

BUSINESS AND COMPUTER STUDIES

BTT1O5 - Information and Communication Technology in Business**Grade 9 Open (½ credit)**

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, desktop publishing, and presentation software in MS Office and the Google platform. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology.

BBI2O1 - Information Technology and 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 production, 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.

ICS2O1 - Introduction to Computer Studies**Grade 10 Open**

This course introduces students to computer programming. Student will plan and write simple computer programs by applying fundamental programming concepts, and learn to create clear and maintainable internal documentation. They will also learn to manage a computer by studying hardware configurations, software selection, operating system functions, networking, and safe computing practices. Students will also investigate the social impact of computer technologies, and develop an understanding of environmental and ethical issues related to the use of computers.

ICS3U1 - Introduction to Computer Science**Grade 11 University Preparation**

This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use sub-programs within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields.

Recommended prerequisite: Introduction to Computer Science, Grade 10, Open

ICS4U1 - Computer Science**Grade 12 University Preparation**

This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyze algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.

Prerequisite: Introduction to Computer Science, Grade 11, University Preparation

This course is being offered in 2017-2018, but not in 2018-2019

BAF3M1- Financial Accounting Fundamentals**Grade 11 University/College Preparation**

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 service and a merchandising business, computerized accounting, financial analysis, and current issues and ethics in accounting.

BAT4M1 - Financial Accounting Principles**Grade 12 University/College Preparation**

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.

Prerequisite: Financial Accounting Fundamentals, Grade 11, University/College Preparation

BDI3C1- 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 student-run school-based or summer business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.

BMI3C1- Marketing: Goods, Services, Events**Grade 11 College Preparation**

This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice. Students will apply these marketing skills within the context of the multibillion dollar sports and entertainment marketing industry, through an in-depth study of its key players (professional athletes and entertainers) and the other stakeholders (managers and agents) who make them successful.

BTA3O1- Information and Communication Technology: The Digital Environment**Grade 11 Open**

This course prepares students for the digital environment. Using a hands-on approach, students will further develop information and communication technology skills through the use of common business software applications. The concept and operation of e-business will be explored, and students will design and create an e-business website. The skills developed in this course will prepare students for success in the workplace and/or post secondary studies.

BBB4M1- Introduction to International Business**Grade 12 University/College Preparation**

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.

Prerequisite: Any university, university/college, or college prep course in Business studies or Canadian and World studies

CANADIAN AND WORLD STUDIES - GEOGRAPHY**CGC1D1 – Issues in Canadian Geography****Grade 9 Academic**

This course examines interrelationships within and between Canada's natural and human systems and how these systems interconnect with those in other parts of the world. Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial Technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place to live.

Prerequisite: None

CGC1P1 – Issues in Canadian Geography**Grade 9 Applied**

This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore issues related to food and water supplies, competing land uses, interactions with the natural environment, and other topics related to sustainable living in Canada. They will also develop awareness that issues that affect their lives in Canada are interconnected with issues in other parts of the world. Throughout the course, students will use the concepts of geographic thinking, the geographic inquiry process, and spatial technologies to guide and support their investigations.

Prerequisite: None

CGF3M1 - Forces of Nature: Physical Processes and Disasters**Grade 11 University/College Preparation**

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: Issues in Canadian Geography, Grade 9, Academic or Applied**CGG3O1 - Travel and Tourism: A Geographic Perspective****Grade 11 Open**

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities.

Prerequisite: Canadian Geographic Issues, Grade 9, Academic or Applied**CGU4M1- World Geography: Urban Patterns and Population Issues****Grade 12 University/College Preparation**

The world's population is growing, it is moving and intermixing, and it is increasingly found in cities. This course explores these changes and the challenges that come with them. It investigates the forces that are shaping the world's communities, the patterns of interaction between them, the quality of life within them, and their impact on the world around them. Students will apply the concepts of geographic thinking, the geographic inquiry process, and spatial skills and technologies as they investigate issues related to population change and urban life and propose ways of enhancing the sustainability of communities around the world.

Prerequisite: Any university, university/college, or college preparation course in Canadian and world studies, English, or social sciences and humanities**CGR4M1 - The Environment and Resource Management****Grade 12 University/College Preparation**

This course explores interactions between the natural and human environment, with a particular focus on the impact of human activity on various ecosystems. Students will explore resource management and sustainability practices, as well as related government policy and international protocols. Applying the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, students will investigate the relationship between people and the natural environment and will propose approaches for developing more sustainable relationships, including environmentally responsible actions that support stewardship.

Prerequisite: Any university, university/college, or college preparation course in Canadian and world studies, English, or social sciences and humanities**CGW4U1 - World Issues: A Geographic 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 and humanities**CANADIAN AND WORLD STUDIES – HISTORY****CHC2D1- Canadian History since World War I****Grade 10 Academic**

This course explores social, economic, and political developments and events and their impact on the lives of different groups in Canada since 1914. Students will examine the role of conflict and cooperation in Canadian society, Canada's evolving role within the global community, and the impact of various individuals, organizations, and events on Canadian identity, citizenship, and heritage. They will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key issues and events in Canadian history since 1914.

Prerequisite: None**CHC2L1- History****Grade 10 Locally Developed Course**

This course focuses on the connections between the student and key people, events and themes in Canadian contemporary studies. Students prepare for grade 11 Canadian and World Studies Workplace Preparation courses through the development and extension of historical literacy skills and critical thinking 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 practise reading, writing, visual, and oral literacy skills to identify and communicate ideas in a variety of media.

CHC2P1 - Canadian History since World War I**Grade 10 Applied**

This course focuses on the social context of historical developments and events and how they have affected the lives of people in Canada since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to Canadian heritage and identity. Students will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating the continuing relevance of historical developments and how they have helped shape communities in present-day Canada.

Prerequisite: None**CHV2O5 – Civics and Citizenship****Grade 10, Open (½ credit)**

This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them.

Prerequisite: None

CHW3M1 - World History to the End of the Fifteenth Century**Grade 11 University/College Preparation**

This course explores the history of various societies around the world, from earliest times to around 1500 CE. Students will examine life in and the legacy of various ancient and pre-modern societies throughout the world, including those in, Africa, Asia, Europe, and the Americas. 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: Canadian History since World War I, Grade 10, Academic or Applied**CHA3U1 - American History****Grade 11 University Preparation**

This course traces the social, economic, and political development of the United States from colonial times to the present. Students will examine issues of diversity, identity, and culture that have influenced the country's social and political formation and will consider the implications of its expansion into a global superpower. There will be many different topics explored including: Colonial America, The American War of Independence, The Civil War and Slavery, The Civil Rights Movement, Women's Rights, The World Wars, The Cold War and The Space Race, and the impact of the 9-11 attacks. Students will use critical-thinking and communication skills to determine causal relationships, evaluate multiple perspectives, and present their own points of view.

Prerequisite: Canadian History Since World War I, Grade 10, Academic or Applied**CHY4U1 - World History since the Fifteenth Century****Grade 12 University Preparation**

This course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate key issues and assess societal progress or decline in world history.

Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.**NBV3C1 - Aboriginal Beliefs, Values and Aspirations in Contemporary Society,****Grade 11 College Preparation**

This course focuses on the beliefs, values, and aspirations Aboriginal peoples in Canada. Students will examine the world views of Aboriginal peoples and the political, economic, cultural, and social changes facing individuals and communities. Students will also learn how traditional and contemporary beliefs and values influence the aspirations and actions of Aboriginal peoples.

Prerequisite: Aboriginal Peoples in Canada, Grade 10, Open or Canadian History in the Twentieth century Grade 10 Academic or Applied**ADVENTURES IN CANADIAN HISTORY AND ENGLISH****2REACH – Rethinking English And Canadian History (2 Credits)****Grade 10 Applied****This course combines CHC2P1 and ENG2P1 and these two courses will be chosen together when 2REACH is selected in “MyBlueprint”.**

Earn 2 credits in English and History while making connections between Canada's past and present by exploring the themes of: minorities, indigenous peoples, conflict, heroes, cultures, technology, and science and local history. Field trips, guest speakers, and a team approach will be central to student learning. Students practice reading, writing, oral literacy skills to identify and communicate ideas in an individual and collaborative environment using a variety of media.

CHC2P1 - Canadian History since World War I**Grade 10 Applied**

- This course focuses on the social context of historical developments and events and how they have affected the lives of people in Canada since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to Canadian heritage and identity. Students will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating the continuing relevance of historical developments and how they have helped shape communities in present-day Canada. **Prerequisite: None**

ENG2P1 - English**Grade 10 Applied**

- This course extends the range of key reading, writing, oral communication, and thinking skills that students need for success in all areas of the curriculum. Students will study novels, poems, magazines, and reports, and will describe, design, and produce effective media works. An important focus will be the clear and coherent use of spoken and written language. **Prerequisite: English, Grade 9, Academic or Applied**

2EARNS – Rethinking English And Canadian History (2 Credits)**Grade 10 Applied****This course combines NAC2O1 and ENG2P1 and these two courses will be chosen together when 2EARNS is selected in “MyBlueprint”.**

Earn 2 credits in English and Native Studies while making connections between Canada's past and present by exploring the themes of: minorities, indigenous peoples, conflict, heroes, cultures, technology, and science and local history. Field trips, guest speakers, and a team approach will be central to student learning. Students practise reading, writing, and oral literacy skills to identify and communicate ideas in an individual and collaborative environment using a variety of media. Note: Students who enrol in NAC2O will receive a credit substitution for their History credit.

NAC2O1 - Aboriginal Peoples in Canada**Grade 10 Open**

- This course emphasizes historical and contemporary issues that affect the relationship between Aboriginal peoples and Canadian governments. Students will examine legal, political, social, and economic issues; key aspects of the Indian Act and its revisions that have an impact on the daily lives of Aboriginal persons; the different types of relationships that Aboriginal peoples have established with other nations throughout history; and the methodology of historical inquiry **Prerequisite: None**

ENG2P1 - English**Grade 10 Applied**

- This course extends the range of key reading, writing, oral communication, and thinking skills that students need for success in all areas of the curriculum. Students will study novels, poems, magazines, and reports, and will describe, design, and produce effective media works. An important focus will be the clear and coherent use of spoken and written language. **Prerequisite: English, Grade 9, Academic or Applied**

COOPERATIVE EDUCATION

Cooperative Education Linked to a Related Course(s)

Grade 11/12 (all destinations)

A cooperative education course linked to a related course (or courses) from the Ontario curriculum (or a locally developed course) consists of a community-connected experience, the cooperative education curriculum and a set of expectations from the related course. Students will learn about safety and well-being throughout the experience, and will create, implement and reflect on a learning plan that meets their interests and needs and supports education and career/life planning. Through the experience, students will apply and extend their learning from the related course, and make connections with other aspects of their lives. Cooperative Education Program is available in all senior courses as a double credit. (i.e. HSB4UD - the D indicates Co-Op).

Prerequisite: None

ECONOMICS

CIA4U1- Analysing Current Economic Issues

Grade 12 University Preparation

This course examines current national and global economic trends and policies from diverse perspectives. Students will explore the impact of choices that individuals and institutions, including governments, make in responding to local, national, and global economic issues such as globalization and global economic inequalities, trade agreements, national debt, taxation, social spending, and consumer debt. Students will apply the concepts of economic thinking and the economic inquiry process, including economic models, to investigate, and develop informed opinions about, current economic issues and to help them make reasoned economic decisions.

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

LAW

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 rights and freedoms in Canada, our legal system, and family, contract, employment, tort, and criminal law. Students will use case studies and apply the concepts of legal thinking and the legal inquiry process to develop legal reasoning skills and to formulate and communicate informed interpretations of legal issues, and they will develop the ability to advocate for new laws.

Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied

CLN4U1 - Canadian and International Law

Grade 12 University Preparation

This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop their understanding of the principles of Canadian and international law when exploring rights and freedoms within the context of topics such as religion, security, cyberspace, immigration, crimes against humanity, and environmental protection. Students will apply the concepts of legal thinking and the legal inquiry process when investigating these issues in both Canadian and international contexts, and they will develop legal reasoning skills and an understanding of conflict resolution in the area of international law.

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

WORLD RELIGIONS

HRT3M1- World Religions: Beliefs, Issues and Religious Traditions

Grade 11 University/ College Preparation

This course provides students with opportunities to explore various world religions and belief traditions. Students will develop knowledge of the terms and concepts relevant to this area of study, will examine the ways in which religions and belief traditions meet various human needs, and will learn about the relationship between belief and action. They will examine sacred writings and teachings, consider how concepts of time and place influence different religions and belief traditions, and develop research and inquiry skills related to the study of human expressions of belief.

Prerequisite: None

ENGLISH

ENG1L1 - English

Grade 9 Locally Developed Course

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the English Grade 11 Workplace Preparation course. The course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing and thinking and reflect regularly upon their growth in these areas.

ENG1D1 - English

Grade 9 Academic

This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be the use of strategies that contribute to effective communication. The course is intended to prepare students for the grade 10 academic English course, which leads to university or college preparation courses in grades 11 and 12.

ENG1P1 - English**Grade 9 Applied**

This course is designed to develop the key oral communication, reading, writing, and media literacy skills that students need for success in secondary school and in 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. The course is intended to prepare students for the grade 10 applied English course which leads to college or workplace preparation courses in grades 11 and 12.

ENG2D1 - English**Grade 10 Academic**

This course is designed to extend the range of oral communication, reading, writing, media literacy skills that students need for success in secondary school academic programs and 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. This course is intended to prepare students for the compulsory grade 11 university or college preparation English course.

Prerequisite: English, Grade 9, Academic or Applied

ENG2P1 - English**Grade 10 Applied**

This course extends the range of key reading, writing, oral communication, and thinking skills that students need for success in all areas of the curriculum. Students will study novels, poems, magazines, and reports, and will describe, design, and produce effective media works. An important focus will be the clear and coherent use of spoken and written language.

Prerequisite: English, Grade 9, Academic or Applied

ENG2L1 - English**Grade 10 Locally Developed Course**

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English Grade 11 Workplace Preparation course. The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

Prerequisite: a Grade 9 English credit

Grade 11 College Preparation**ENG3C1 - English**

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will study the content, form, and style of informational texts and literary works from Canada and other countries; write reports, correspondence, and persuasive essays; and analyse media forms, audiences, and media industry practices. An important focus will be on establishing appropriate voice and using business and technical language with precision and clarity.

Prerequisite: English, Grade 10 Applied

ENG3E1 - English**Grade 11 Workplace Preparation**

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will study the content, form, and style of informational texts and literary works; write explanations, letters, and reports; and investigate the connections among media forms, audiences, and media industry practices. An important focus will be on using language clearly, accurately, and effectively in a variety of contexts.

Prerequisite: English, Grade 10 Applied or ENG 2L

ENG3U1 - English**Grade 11 University Preparation**

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will analyse challenging texts from various periods; conduct research and analyse the information gathered; write persuasive and literary essays; and analyse the relationship among media forms, audiences, and media industry practices. An important focus will be on understanding the development of the English language.

Prerequisite: English, Grade 10, Academic

EMS3O1 - Media Studies**Grade 11 Open**

This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.

Prerequisite: English, Grade 10, Academic or Applied

ENG4C1 - English**Grade 12 College Preparation**

This course emphasizes consolidation of literacy, critical thinking, and communication skills. Students will analyse informational texts and literary works from various time periods, countries, and cultures; write research reports, summaries, and short analytical essays; complete an independent study project; and analyse the interactions among media forms, audiences, and media industry practices. An important focus will be on establishing appropriate style and using business and technical language effectively.

Prerequisite: English, Grade 11, Col. Preparation

ENG4E1 - English**Grade 12 Workplace Preparation**

This course emphasizes consolidation of literacy, critical thinking, and communication skills. Students will study informational texts and literature from various countries and cultures; write summaries, reports, resumes, and short essays; complete an independent research project; and explain the connections among media forms, audiences, and media industry practices. An important focus will be on using specialized language related to the workplace accurately and coherently in appropriate contexts.

Prerequisite: English, Grade 11, Workplace Preparation

ENG4U1 - English**Grade 12 University Preparation**

This course emphasizes consolidation of literacy, critical thinking, and communication skills. Students will analyse a range of challenging texts from various time periods, countries, and cultures; write analytical and argumentative essays and a major paper for an independent literary research project; and apply key concepts to analyse media works. An important focus will be on understanding academic language and using it coherently and confidently in discussion and argument.

Prerequisite: English, Grade 11, University Preparation

* *ENG 4U1 is the pre-requisite for most university programs.*

EWC4U1 - The Writer's Craft**Grade 12 University Preparation**

This course emphasizes knowledge and skills related to the craft of writing. Students will analyse 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: English, Grade 11, University Preparation

OLC4O1 - Ontario Literacy Course**Grade 12 Open**

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. Students who complete the course successfully will meet the provincial literacy requirement of 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 literary portfolio containing a record of their reading experiences and samples of their writing.

Note: Although this course can be used to fulfill the compulsory English requirement for either grade 11 or grade 12, it may not be accepted as the grade 12 English entrance requirement for university or college programs.

FRENCH IMMERSION / EXTENDED FRENCH

FIF1DX - French Immersion**Grade 9 Academic**

This course provides opportunities for students to speak and interact in French independently in a variety of real-life and personally relevant contexts. Students will develop their ability to communicate in French with confidence by using language-learning strategies introduced in the elementary French Immersion program. Students will enhance their knowledge of the language through the study of French-Canadian literature. They will also continue to increase their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: Minimum of 3800 hours of instruction in elementary French Immersion, or equivalent

FEF1DX - Extended French**Grade 9 Academic**

This course provides opportunities for students to speak and interact in French in a variety of real-life and personally relevant contexts. Students will continue to use language-learning strategies introduced in the elementary Extended French program. They will develop their creative and critical thinking skills, through independently responding to and interacting with a variety of oral and written texts, and will continue to enhance their understanding and appreciation of diverse French-speaking communities. They will also develop the skills necessary to become life-long language learners.

Prerequisite: Minimum of 1260 hours of instruction in elementary Extended French, or equivalent

CGC1DX - Issues in Canadian Geography**Grade 9 Academic**

This course examines interrelationships within and between Canada's natural and human systems and how these systems interconnect with those in other parts of the world. Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial Technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place to live.

Prerequisite: None

MPM1DX-Mathematics**Grade 9 Academic**

This course develops generalizations of mathematical ideas through exploration of applications, the effective use of technology, and the development of abstract reasoning. Students will investigate relationships to develop algebraic models of the straight line in analytic geometry, exploration of optimal value in measurement, and application of extended algebraic skills in problem solving. Students will engage in abstract extensions of core learning that will deepen their mathematical knowledge and enrich their understanding.

MFM1PX - Mathematics**Grade 9 Applied**

This mathematics course enables students to develop 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 relationships, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional objects and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. Successful completion of this course prepares students for Foundations of Mathematics, grade 10, Applied (MFM2P). (Note: Students who wish to take Principles of Mathematics, Grade 10, Academic (MPM2D) after completing this course will need to take a transfer course or 1D1 math). Learning through hands-on activities and the use of concrete examples are important aspects of this course.

SNC1DX - Science**Grade 9 Academic**

This course enables students to understand basic concepts in biology, chemistry, earth and space science, and physics. Students will develop skills in the processes of scientific inquiry, and to relate science to technology, society, and the environment. Students will learn scientific theories and conduct investigations related to cell division and reproduction, atomic and molecular structures and the properties of elements and compounds, the universe and space exploration, and the principles of electricity.

FEF2DX – Extended French**Grade 10 Academic**

This course provides extensive opportunities for students to use their communication skills in French and to apply language-learning strategies. Students will respond to and interact with French oral and written texts in a variety of real-life contexts, using their creative and critical thinking skills to explore and evaluate information and ideas in the texts. Students will increase their knowledge of the language through the study of French-Canadian authors. They will also continue to increase their understanding and appreciation of French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: Extended French, Grade 9, Academic

FIF2DX – French Immersion**Grade 10 Academic**

This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will use a variety of language-learning strategies in listening, speaking, reading, and writing, and will respond to and interact with print, oral, visual, and electronic texts. Students will develop their knowledge of the French language through the study of contemporary and historically well-known French European literature. They will also continue to increase their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: French Immersion, Grade 9, Academic or Applied

CHC2DX - Canadian History since World War I**Grade 10 Academic**

This course explores social, economic, and political developments and events and their impact on the lives of different groups in Canada since 1914. Students will examine the role of conflict and cooperation in Canadian society, Canada's evolving role within the global community, and the impact of various individuals, organizations, and events on Canadian identity, citizenship, and heritage. They will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key issues and events in Canadian history since 1914.

Prerequisite: None**MPM2DX- Mathematics****Grade 10 Academic**

This course enables students to broaden their understanding of relations, extend their skills in multi-step problem solving, and continue to develop their abilities in abstract reasoning. Students will pursue investigations of quadratic functions and their applications, solve and apply linear systems, solve multi-step problems in analytic geometry to verify properties of geometric figures, investigate the trigonometry of right and acute triangles, and develop supporting algebraic skills.

Prerequisite: Mathematics, Grade 9, Academic**MFM2PX- Mathematics****Grade 10, Applied**

This course enables students to consolidate their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relationships. Students will investigate similar triangles, the trigonometry of right-angled triangles, and the measurement of three dimensional objects. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: Mathematics, Grade 9, Academic or Applied**SNC2DX - Science****Grade 10 Academic**

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, to develop further their skills in scientific inquiry, and to understand the interrelationships among science, technology, and the environment. Students will conduct investigations and understand scientific theories related to: ecology and the maintenance of ecosystems, chemical reactions, with particular attention to acid-base reactions, factors that influence weather systems, and motion.

Prerequisite: Science, Grade 9, Academic**GLC2OX- Careers****Grade 10 Open (½ credit)**

This half-credit compulsory course taught in French teaches students how to develop and achieve personal goals for future learning, work and community involvement. Students will assess 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.

CHV 20X- Civics**Grade 10 Open (½ credit)**

This half-credit compulsory course taught in French explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy 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' beliefs and perspectives on public issues. Students will learn how to think critically about public issues and react responsibly to them.

FEF3UX -Extended French**Grade 11 University Preparation**

This course provides opportunities for students to communicate about concrete and abstract topics in various situations. Students will consolidate language-learning strategies and apply them in a variety of real-life contexts in order to enhance and refine their communication skills, and will continue to develop creative and critical thinking skills. Students will develop their knowledge of the language through the study of contemporary and well-known French European authors. They will also continue to deepen their understanding and appreciation of diverse French-speaking communities, and develop the skills necessary to become life-long language learners.

Prerequisite: Extended French, Grade 10, Academic**FIF3UX - French Immersion****Grade 11 University Preparation**

This course provides opportunities for students to consolidate the communication skills required to speak and interact with increasing confidence and accuracy in French in a variety of academic and social contexts. Students will apply language-learning strategies while exploring a variety of concrete and abstract topics, and will increase their knowledge of the language through the study of French literature from around the world. They will also continue to deepen their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: French Immersion, Grade 10, Academic**CGF3MX - Forces of Nature: Physical Processes and Disasters****Grade 11 University/College Preparation**

This course examines Earth's physical patterns and processes and how they create natural disasters and can contribute to human disasters. Students will explore how physical processes related to Earth's water, land, and air, as well as interactions between these systems, can affect the planet and its people. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate Earth's natural processes, to make predictions related to natural disasters, and to create plans to prepare for and/or respond to them.

Prerequisite: Canadian Geographic Issues, Grade 9, Academic or Applied**CHW3MX - World History to the End of the Fifteenth Century****Grade 11 University/College Preparation**

This course explores the history of various societies around the world, from earliest times to around 1500 CE. Students will examine life in and the legacy of various ancient and pre-modern societies throughout the world, including those in, Africa, Asia, Europe, and the Americas. 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: Canadian History since World War I, Grade 10, Academic or Applied**HSP3UX – Introduction to Anthropology, Psychology and Sociology****Grade 11 University/College 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, and to become familiar with current thinking on a range of issues within the three disciplines.

Prerequisite: The Grade 10 academic course in French or the Grade 10 academic history course (Canadian and world studies).

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: Principles of Mathematics, Grade 10, Academic, or Foundations of Mathematics, Grade 10, Applied (a minimum mark of 70% strongly recommended)

MCR3UX – Mathematics : 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; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: Principles of Mathematics, Grade 10, Academic (minimum mark of 60% recommended)

SBI3UX - Biology

Grade 11 University Preparation

This course furthers students' understanding of the processes involved in biological systems. Students will study cellular functions, genetic continuity, internal systems and regulation, the diversity of living things, and the anatomy, growth, and functions of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.

Prerequisite: Science, Grade 10, Academic

FEF4UX - Extended French

Grade 12 University Preparation

This course further emphasizes the consolidation of communication skills required to interact in French for various purposes about concrete and abstract topics. Students will independently apply language-learning strategies in a variety of real-life and personally relevant contexts, and will broaden their creative and critical thinking skills through responding to and analysing oral and written texts. Students will increase their knowledge of the language through the study of Canadian and international French literature. They will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: Extended French, Grade 11, University Preparation

FIF4UX - French Immersion

Grade 12 University Preparation

This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will consolidate language-learning strategies and apply them while communicating about concrete and abstract topics, and will independently respond to and interact with a variety of oral and written texts. Students will study a selection of French literature from the Middle Ages to the present. They will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: French Immersion, Grade 11, University Preparation

CGR4MX - The Environment and Resource Management

Grade 12 University/College Preparation

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

This course explores interactions between the natural and human environment, with a particular focus on the impact of human activity on various ecosystems. Students will explore resource management and sustainability practices, as well as related government policy and international protocols. Applying the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, students will investigate the relationship between people and the natural environment and will propose approaches for developing more sustainable relationships, including environmentally responsible actions that support stewardship.

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

Grade 12 University Preparation

CHY4UX - World History since the Fifteenth Century

This course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate key issues and assess societal progress or decline in world history.

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

HSB4UX - Challenge and Change in Society

Grade 12 University/College Preparation

This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour 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 preparation course in social sciences and humanities, English, or Canadian and world studies.

MHF4UX - Advanced Functions

Grade 12 University Preparation

This course extends a students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic and trigonometric functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

Prerequisite: Functions , Grade 11, Univ. Preparation or Mathematics for College Technology, Grade 12, College Preparation

SBI4UX – Biology

Grade 12 University Preparation

This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields.

Prerequisite: Biology, Grade 11, University Preparation

GUIDANCE - CAREER STUDIES AND PEER LEADERSHIP

GLC205 - Career Studies

Grade 10 Open (½ credit)

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 post-secondary 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.

GPP301 - Peer Helping

Grade 11 Open

This course prepares students to act in leadership and peer support roles. They will design and implement a plan for contributing to their school and/or community. They will develop skills in communication, interpersonal relations, teamwork, and conflict management: and apply those skills in leadership and/or peer support roles. Students will examine group dynamics and learn the value of diversity within groups and communities. Showing initiative, students in this class should display leadership potential, positive behaviour and a willingness to learn. At Laurier, this group will provide tutoring, peer mediation and student orientation in class placements two times per week. This course has limited enrolment because of the placement in grade nine classes. As students in this course serve as mentors to juniors, the selection of students will be based on leadership experience and leadership potential. **An interview application is required, including teacher referrals.**

GWL301- Designing Your Future

Grade 11 Open

The course prepares students to make successful transitions to post-secondary destinations as they investigate specific post-secondary options based on their skills, interests, and personal characteristics. Students will explore the realities and opportunities of the workplace and examine factors that affect success, while refining their job search and employability skills. Students will expand their portfolios with a focus on their targeted destination and develop an action plan for future success.

IDC4UP - Peer Helping

Grade 12 University/Preparation

This course combines the expectations for Interdisciplinary Studies, Grade 12 University Preparation with selected expectations from the following three component courses: Organizational Behaviour and Human Resources, Leadership and Peer Helping, and Issues in Human Growth and Development. This course focuses on 3 main themes: Interpersonal Skills and Processes, Personal Development, and Project Management, from both interdisciplinary and research perspectives. Students will explore and answer the following question "How do I access and synthesize knowledge and skills to realize the full potential of myself and the community in which I live?" Skills and knowledge will be applied with Grade 9 students through the Peer Helping Program which includes orientation, tutoring, 1-1 helping and violence prevention.

Prerequisite: Any university or university/college preparation course.

LEARNING STRATEGIES / GIFTED

GLE101/GLS101- 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 the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond. This course option is offered to students on formal individual education plans in consultation with their grade 8 learning support teacher and Laurier guidance and resource staff.

GLE201 – Learning Strategies

Grade 10 Open

This course continues to support the acquisition of learning strategies to help students become better, more independent learners. Students will refine and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond. This course option is offered only to students on formal individual education plans in consultation with their learning support teacher.

IDC4UG - Interdisciplinary Studies: Enrichment Opportunity

Grade 12 University

This course will help students combine the required skills and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Through individual and collaborative inquiry and research, students will analyse the connections among diverse subjects and disciplines; develop information literacy skills in analysing, selecting, evaluating, and communicating information; and become aware of a variety of resources and viewpoints on contemporary issues. They will also examine their own learning styles, relate their inquiries and research to real-life situations, and investigate career opportunities in new disciplines.

INTERNATIONAL LANGUAGES – FRENCH

FSF1D1 - Core French

Grade 9 Academic

This course provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives. Students will continue to develop language knowledge and skills by using language-learning strategies introduced in the elementary Core French program, and will apply creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary to become life-long language learners.

Prerequisite: Minimum of 600 hours of elementary Core French instruction, or equivalent.

FSF1P1 - Core French

Grade 9 Applied

This course provides opportunities for students to communicate and interact in French in structured situations on everyday topics and to apply their knowledge of French in everyday situations. Students will continue to develop language knowledge and skills introduced in the elementary Core French program, through practical applications and concrete examples, and will use creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary to become life-long language learners.

Prerequisite: Minimum of 600 hours of elementary Core French instruction, or equivalent

FSF2D1 - Core French**Grade 10 Academic**

This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will continue to develop their language knowledge and skills through the selective use of strategies that contribute to effective communication. They will also increase their understanding and appreciation of diverse French-speaking communities, and will continue to develop the skills necessary to become life-long language learners.

Prerequisite: Core French, Grade 9, Academic or Applied

FSF3U1 - Core French**Grade 11 University Preparation**

This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their creative and critical thinking skills through responding to and exploring a variety of oral and written texts. They will continue to broaden their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.

Prerequisite: Core French, Grade 10, Academic

FSF4U1 - Core French**Grade 12 University Preparation**

This course provides extensive opportunities for students to speak and interact in French independently. Students will apply language-learning strategies in a wide variety of real-life situations, and will continue to develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. Students will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.

Prerequisite: Core French, Grade 11, University Preparation

INTERNATIONAL LANGUAGES – GREEK

LBGBD1 - Greek**Level 1 Academic****Grade 10 Academic**

This course provides opportunities for students to begin to develop and apply skills in listening, speaking, reading, and writing in the language of study. Students will communicate and interact in structured activities, with a focus on matters of personal interest and familiar topics, and will read and write simple texts in the language. Throughout the course, students will acquire an understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also develop skills necessary for lifelong language learning.

Prerequisite: None

LBGCU1 - Greek**Level 2 Academic****Grade 11 Academic**

This course provides opportunities for students to increase their competence and confidence in listening, speaking, reading, and writing in the language of study. Students will communicate about academic and personally relevant topics in increasingly spontaneous spoken interactions, and will develop their creative and critical thinking skills through exploring and responding to a variety of oral and written texts. Students will continue to enrich their understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also investigate personal and professional contexts in which knowledge of the language is required, and develop skills necessary for lifelong language learning.

Prerequisite: LBGBD1 Grade 10, Academic

INTERNATIONAL LANGUAGES - SPANISH

LWSBD1 - Spanish**Grade 10 Academic**

This course provides opportunities for students to begin to develop and apply skills in listening, speaking, reading, and writing in the language of study. Students will communicate and interact in structured activities, with a focus on matters of personal interest and familiar topics, and will read and write simple texts in the language. Throughout the course, students will acquire an understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also develop skills necessary for lifelong language learning.

Prerequisite: None

LWSCU1 - Spanish**Grade 11 University Preparation**

This course provides opportunities for students to increase their competence and confidence in listening, speaking, reading, and writing in the language of study. Students will communicate about academic and personally relevant topics in increasingly spontaneous spoken interactions, and will develop their creative and critical thinking skills through exploring and responding to a variety of oral and written texts. Students will continue to enrich their understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also investigate personal and professional contexts in which knowledge of the language is required, and develop skills necessary for lifelong language learning.

Prerequisite: LWSBD1 Grade 10, Academic

LWSDU1 – Spanish**Grade 12 University Preparation**

This course provides extended opportunities for students to communicate and interact in the language of study in a variety of social and academic contexts. Students will refine and enhance their listening, speaking, reading, and writing skills, as well as their creative and critical thinking skills, as they explore and respond to a variety of oral and written texts, including complex authentic and adapted texts. They will also broaden their understanding and appreciation of diverse communities where the language is spoken, and develop skills necessary for lifelong language learning.

Prerequisite: LWSCU1 Grade 11, University Preparation

MATHEMATICS

MAT1L1 – Mathematics**Grade 9 Locally Developed Course**

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in the Grade 10 LDCC course, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to further develop their skills in reading, writing, and oral language through relevant and practical math activities.

MFM1P1 - Foundations of Mathematics**Grade 9 Applied**

This course enables students to develop 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 relationships, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional objects and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. Successful completion of this course prepares students for Foundations of Mathematics, grade 10, Applied (MFM2P). (Note: Students who wish to take Principles of Mathematics, Grade 10, Academic [MPM2D] after completing this course will need to take a transfer course or 1D1 math). Learning through hands-on activities and the use of concrete examples are important aspects of this course.

MPM1D1 - Principles of Mathematics**Grade 9 Academic**

This course enables students to develop 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 then generalize as equations of lines, and will determine the connections between different representations of a relationship. They will also explore relationships that emerge from the measurement of three-dimensional objects and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi step problems. Successful completion of this course prepares students for Principles of Mathematics, Grade 10, Academic (MPM2D) or Foundations of Mathematics, Grade 10, Applied (MFM2P). Learning through abstract reasoning is an important aspect of this course.

MAT2L1 - Mathematics**Grade 10 Locally Developed**

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation course. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

Prerequisite: A Grade 9 Mathematics credit**Grade 10 Applied****MFM2P1 - Foundations of Mathematics**

This course enables students to consolidate their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relationships. Students will investigate similar triangles, the trigonometry of right-angled triangles, and the measurement of three dimensional objects. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: Mathematics, Grade 9, Academic or Applied**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 relationships 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: Mathematics, Grade 9, Academic**MBF3C1 - Mathematics for Personal Finance****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; and develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: Foundations of Mathematics, Grade 10, Applied**MCF3M1 - Functions and Applications****Grade 11 University/College Preparation**

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: Principles of Mathematics, Grade 10, Academic, or Foundations of Mathematics, Grade 10, Applied (a minimum mark of 70% strongly recommended)**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; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: Principles of Mathematics, Grade 10, Academic (a minimum mark of 70% recommended)**MEL3E1 - Mathematics for 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: Principles of Mathematics, Grade 9, Academic, or Foundations of Mathematics, Grade 9, applied, or a ministry-approved locally developed Grade 10 mathematics course**MAP4C1 - Foundations for College Mathematics****Grade 12 College Preparation**

This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; simplify expressions; and solve equations. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.

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

MHF4U1 - Advanced Functions**Grade 12 University Preparation**

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic and trigonometric functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

Prerequisite: Functions , Grade 11, Univ. Preparation or Mathematics for College Technology, Grade 12, College Preparation

MCV4U1 - Calculus and Vectors**Grade 12 University Preparation**

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential and sinusoidal functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

Note: This course can be taken concurrently with or after Advanced Functions.

Prerequisite: Functions MHF4U1

MDM4U1 - Mathematics of Data Management**Grade 12 University Preparation**

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

Prerequisite: Functions and Applications, Grade 11, University/College Preparation, or Functions, Grade 11, University Preparation

MEL4E1 - Mathematics for Work and 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: Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation

STEAM: INNOVATION FOR THE 21ST CENTURY

2STEAM – STEAM: Innovation For The 21st Century (2 Credits)**Grade 10 Academic**

This course combines MPM2D1 and SNC2D1 and these two courses will be chosen together when 2STEAM is selected in “MyBlueprint”.

This is an interdisciplinary opportunity for students interested in combining grade 10 academic mathematics and grade 10 academic science. It is designed to engage students in real-world learning and problem solving while attaining the core expectations in both math and science. The two courses will run consecutively in a half-day block for the entire semester, allowing students greater enrichment opportunities in both subjects.

MPM2D1 – Principles of 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 relationships 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: Mathematics, Grade 9, Academic**

SNC2D1 - 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: Science, Grade 9, Academic**

PHYSICAL EDUCATION AND HEALTH

PPL1OF - Healthy Active Living Education (female)**Grade 9 Open****PPL1OM - Healthy Active Living Education (male)**

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. **Prerequisite:** None

PPL2OF - Healthy Active Living Education (female)**Grade 10 Open****PPL2OM - Healthy Active Living Education (male)**

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. **Prerequisite:** None

PPL3OF - Healthy Active Living Education (female)**Grade 11 Open****PPL3OM - Healthy Active Living Education (male)**

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. **Prerequisite:** None

PPZ3C1 -Health for Life (Co-Ed)**Grade 11 Open**

This course enables students to examine the factors that influence their own health practices and behaviours as well as those factors that contribute to the development of healthy communities. It emphasizes the concept of wellness, which addresses all aspects of well-being – physical, cognitive, emotional, spiritual, and social – and promotes healthy eating, physical activity, and building and maintaining a positive sense of self. Students will develop the skills necessary to make healthy choices and create a personal wellness plan. They will also design initiatives that encourage others to lead healthy, active lives. The course prepares students for college programs in health sciences, fitness, wellness, and health promotion. **Prerequisite:** None

PPL4OF - Healthy Active Living Education (female)**Grade 12 Open****PPL4OM - Healthy Active Living Education (male)**

This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. **Prerequisite:** None

Grade 12 University Preparation**PSK4U1 - Exercise Science**

This course focuses on the study of human movement and of systems, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and 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 preparation course in science, or any Grade 11 or 12 course in health and physical education

Prerequisite: Any Grade 11 university or university/Col. Preparation course in science, or any Grade 11 or 12 open course in health and physical education.

ROBOTICS

2ROBOT – Robotics (2 Credits)**Grade 10 Open**

This course combines BBI2O1 and TMJ2O1 and these two courses will be chosen together when 2ROBOT is selected in “MyBlueprint”.

This is an interdisciplinary opportunity for students interested learning about building, designing and programming robots and automated systems. Students will learn the basics of manufacturing and engineering design in the first half of the year and then work to build term projects in the second half.

Recommended for students that are independent and self-directed. A high degree of freedom is permitted in project choices.

BBI2O1 – Information Technology and Introduction to Business

- 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 production, and of 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. A specific focus on robotics, and the business of automation, programing and CAD in the fields of robotics and robotic animation.

TMJ2O1 - Manufacturing Technology

- 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 post-secondary pathways leading to careers in the industry. Specifically, students will focus on design and machining of robotics and automation systems.

3ROBOT - Mechatronics Certificate Program - Physics and Computer Science (2 Credits)**Grade 11 University**

This course combines SPH3U1 and ICS3U1 and these two courses will be chosen together when 3ROBOT is selected in “MyBlueprint”.

These bundled courses are designed to complement each other, providing contextual learning within the common thread of mechatronic design. Students will be integrating physics concepts with programming and design within an iterative (design cycle) environment. Students will be expected to design, build, code, test and refine their ideas with specific end goals in mind through progressively more complicated tasks. All key curricular expectations will be met in both courses, preparing students for the 4U level in Computer Science and Physics. The course work and culminating activity will be integrated with the First Robotics Competition.

SPH3U1 - Physics

- This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment. **Prerequisite: Science, Grade 10, Academic**

ICS3U1 - Introduction to Computer Science

- This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use sub-programs within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields. **Recommended prerequisite: Introduction to Computer Science, Grade 10, Open**

SCIENCE

SNC1L1 - Science

Grade 9 Locally Developed Course

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the relationship between science, society, and the environment, to prepare students for success in everyday life, in the workplace, and in the Science Grade 10 SNC2L course.

SNC1D1 - Science

Grade 9 Academic

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.

SNC2D1 - Science

Grade 10 Academic

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: Science, Grade 9, Academic**

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: Science, Grade 9, Academic or Applied

SNC2L1 - Science

Grade 10 Locally Developed Course

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the environmental impact of science and technology, to prepare students for success in everyday life, in the workplace, and in the Science Grade 11 Workplace Preparation course.

SVN3E1 - Science

Grade 11 Workplace Preparation

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 student's literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy.

Prerequisite: Science, Grade 9, Academic or Applied, or a Grade 9 or 10 locally developed (LDCC) course in science

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: Science, Grade 10, Academic or Applied

SBI3U1 - Biology

Grade 11 University Preparation

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: Science, Grade 10, Academic

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: Science, Grade 10, Academic

Grade 11 University Preparation

SPH3U1 - Physics

This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

Prerequisite: Science, Grade 10, Academic

SBI4U1 - Biology**Grade 12 University Preparation**

This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields.

Prerequisite: Biology, Grade 11, University Preparation

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: Science, Grade 10, Academic or Applied

SCH4U1 - Chemistry**Grade 12 University Preparation**

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: Chemistry, Grade 11, University Preparation

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: Science, Grade 10, Academic or Applied

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, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.

Prerequisite: Physics, Grade 11, University Preparation

SOCIAL SCIENCES AND HUMANITIES

HIF105 - Exploring Family Studies (Half Credit)**Grade 9 Open (½ credit)**

This course explores food, clothing and family issues. Students will have opportunities to develop practical skills by completing fun, hands on projects related to daily living. Students will also use research skills as they explore topics about families.

Prerequisite: None

HNL201 - Clothing**Grade 10 Open**

This course introduces students to the world of clothing. Students will gain knowledge about clothing and will demonstrate basic skills associated with techniques and technologies used to create garments and accessories. Students will learn about the functions of clothing and accessories and what clothing communicates about the wearer. They will learn how to enhance their personal wardrobe by assessing garment quality and will develop shopping strategies and an understanding of various retail formats. Students will develop research skills as they investigate topics related to clothing.

Prerequisite: None

HFN201 - 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

HNC3C1 - Understanding Fashion**Grade 11 College Preparation**

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. They will apply knowledge of fibers, 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.

HFC3E1- Food and Culture**Grade 11 Workplace Preparation**

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

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 within the three disciplines.

Prerequisite: The Grade 10 academic course in English or the Grade 10 academic history course (Canadian and world studies).

HPC3O1- Raising Healthy Children**Grade 11 Open**

This course focuses on the skills and knowledge parents, guardians and caregivers need, with particular emphasis on maternal health, pregnancy, birth and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behavior. Students will develop their research skills through investigations related to care giving and child rearing.

Prerequisite: None**HIP4O1- Personal Life Management****Grade 12 Open**

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.**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.**HFL4E1 – Food and Healthy Living****Grade 12 Open**

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 for 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**HPD4C1- Working with School-Age Children and Adolescents****Grade 12 College Preparation**

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.**HHS4U1- Families in Canada****Grade 12 University Preparation**

This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.

Prerequisite: Any university or university/college preparation course in social sciences and humanities, English, or Canadian and world studies.**HSB4U1 - Challenge and Change in Society****Grade 12 University Preparation**

This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour 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 preparation course in social sciences and humanities, English, or Canadian and world studies.**TECHNOLOGY****TGJ1O5- Communications Technology****Grade 9 Open (½ credit)**

This exploratory course introduces students to concepts and skills in communications technology. Students will produce fun, hands-on projects in the areas of television/video and movie production, radio and audio production, print and graphic communications, and photography. Students will develop an awareness of related environmental and societal issues, and will begin to explore secondary and postsecondary pathways leading to careers in the field.

TIJ1O1 - 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, and equipment 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. This course is designed to introduce the student to further technical studies courses. The three areas of focus are construction, manufacturing and transportation.

TCJ2O1 - Construction Technology**Grade 10 Open**

This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and post secondary pathways leading to careers in the industry.

TGJ2O1 - 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 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 explore secondary and post-secondary education and training pathways and career opportunities in the various communications technology fields.

TMJ2O1 - Manufacturing Technology**Grade 10 Open**

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 design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection molding. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary and post-secondary pathways leading to careers in the industry.

TTJ2O1 - Transportation Technology**Grade 10 Open**

This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the transportation industry.

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. Recommended prerequisite: The Grade 10 subject related course, in order to better prepare for the Grade 11 course content.

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 post secondary and career opportunities in the field. Recommended prerequisite: The Grade 10 subject related course, in order to better prepare for the Grade 11 course content.

TCJ3C2 - Construction Technology (2 Credits)**Grade 12 College Preparation**

This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands-on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and will explore career opportunities in the field. Recommended prerequisite: The Grade 10 subject related course, in order to better prepare for the Grade 11 course content.

TCJ3E2 - Construction Technology (2 Credits)**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 will explore postsecondary and career opportunities in the field. Prerequisite: None

TWJ3E1 - Technological Design (Cabinet Making)**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, post secondary training, and career opportunities in the field that may be pursued directly after graduation.

Recommended prerequisite: The Grade 10 subject related course, in order to better prepare for the Grade 11 course content.

TGJ3M1 - Communications Technology**Grade 11 University/College Preparation**

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 college and university programs and career opportunities in the various communications technology fields.

Recommended prerequisite: The Grade 10 subject related course, in order to better prepare for the Grade 11 course content.

TMJ3C1 - Manufacturing Engineering Technology**Grade 11 College Preparation**

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, 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.

Recommended prerequisite: The Grade 10 subject related course, in order to better prepare for the Grade 11 course content.

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.

Recommended prerequisite: The Grade 10 subject related course, in order to better prepare for the Grade 11 course content.

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 water-craft. 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.

Recommended prerequisite: The Grade 10 subject related course, in order to better prepare for the Grade 11 course content.

TTJ3O1 - Transportation Technology: Vehicle Ownership**Grade 11 Open**

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.

Recommended prerequisite: The Grade 10 subject related course, in order to better prepare for the Grade 11 course content.

TCJ4C1 - Construction Technology**Grade 12 College Preparation**

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: Construction Engineering Technology, Grade 11, College Preparation

TCJ4E1 - 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: Construction Technology, Grade 11, Workplace Preparation

TCJ4C2 - Construction Technology (2 Credits)**Grade 12 College Preparation**

This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment, and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering technology, and will explore career opportunities in the field.

Prerequisite: Construction Technology, Grade 11, College Preparation

TCJ4E2 - Construction Technology (2 Credits)**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 will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.

Prerequisite: Construction Technology, Grade 11, Workplace Preparation

TWJ4E1 - Technological Design (Cabinet Making)**Grade 12 Work Place Preparation**

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.

Prerequisite: Custom Woodworking, Grade 11, Workplace Preparation

TGJ4M1 - Communications Technology**Grade 12 University/College Preparation**

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: Communications Technology, Grade 11, University/College Preparation

TMJ4C1 – Manufacturing Technology**Grade 12 College 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 tools and equipment as they design and fabricate solutions to a variety of technological challenges in manufacturing. Students may also 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.

Prerequisite: Manufacturing Engineering Technology, Grade 11, College preparation

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.

Prerequisite: Manufacturing Technology, Grade 11, Workplace Preparation

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.

Prerequisite: Transportation Technology, College Preparation, Grade 11

TTJ4E1 -Transportation Technology**Grade 12 Workplace Preparation**

This course introduces students to the servicing, repair and maintenance of vehicles through practical applications. The course is appropriate for all students, 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.

Prerequisite: Transportation Technology, College Preparation, Grade 11

SHSM - SPECIALIST HIGH SKILLS MAJOR IN CONSTRUCTION

The Specialist High Skills Major (SHSM) is a Ministry approved program allowing students to focus their learning in a specific economic sector while meeting their requirements for the Ontario Secondary School Diploma. Students are able to customize their courses to suit their interests and talents while preparing for a sector specific apprenticeship, college, university, or workplace destination. Students will be required to complete specific subjects in a major focus area, and complete industry certification courses. Students can enroll in the program in their senior years after they have completed their grade 10 credit requirements. Interested students are asked to inform their counsellor in the guidance office and complete an interview and application. Within a Specialist High Skills Major program, there are five components to be completed for graduation. At that time, students will receive a diploma with the SHSM designation included.

Five SHSM components:

1. A package of 8–10 Grade 11 and Grade 12 credits which includes:
 - i) 4 major senior credits that provide sector-specific knowledge and skills
 - ii) 2–4 other required senior credits from the Ontario curriculum, which include contextualized learning activities
 - iii) 2 cooperative education credits that provide authentic learning experiences in a workplace setting in construction
2. Sector-recognized certifications and/or training courses
3. Experiential learning and career exploration activities within the sector
4. “Reach ahead” experiences connected with the student’s chosen post-secondary pathway
5. Development of Essential Skills and work habits required in the sector with the use of the Ontario Skills Passport (OSP)

CONSTRUCTION TECHNOLOGY

The Specialist High Skills Major program offered at Laurier is in the Construction area. It allows students to focus their learning in the Construction sector while meeting their requirements for the Ontario Secondary School Diploma. Students are able to customize their courses to suit their interests and talents in Construction while preparing for this sector specific apprenticeship, college, university, or workplace destination. Students will be required to complete specific subjects in this major focus area, and complete industry certification courses. Students must be enrolling in Grade 11 or 12 courses.

SHSM-CONSTRUCTION

Credits		Apprenticeship Training		College		University		Workplace	
		Gr. 11	Gr. 12	Gr. 11	Gr. 12	Gr. 11	Gr. 12	Gr. 11	Gr. 12
Major Credits (may include maximum of 1 Cooperative Education Credit)		4*		4*		4*		4*	
Includes content delivered in the sector's context	English	1		1		1		2	
	Mathematics	2		2		2		1	
	Business Studies or Science or Additional Cooperative Education Credit	1		1		1		1	
Cooperative Education		2		2		2		2	
Total number of credits		10		10		10		10	

*a minimum of one Gr 11 and one Gr 12 credit

REGISTRATION NOTES