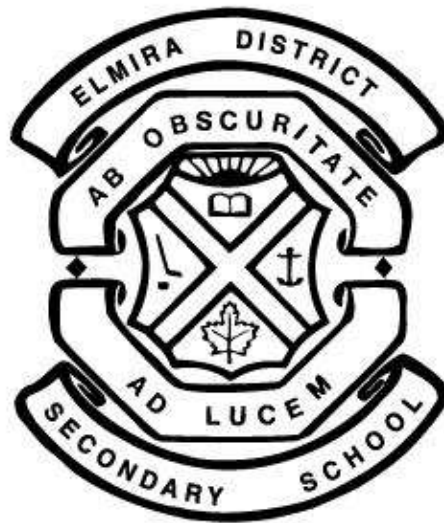


# Elmira District Secondary School Course Calendar



**2019 – 2020**

**Principal:** Mr. B. Marsh  
**Vice-Principals:** Mr. K. Halley  
Mrs. P. LeBrun  
**Head of Guidance:** Mrs. J. Horst

The Waterloo Region District School Board Common Course Calendar is available on the Board and EDSS websites.

Website: <http://eds.wrdsb.ca>

# Elmira District Secondary School

## Supplement to the WRDSB Common Course Calendar

### Requirements for the Ontario Secondary School Diploma (OSSD)

#### In order to earn an OSSD a student must:

- earn 30 credits (18 compulsory and 12 optional credits)
- complete 40 hours of community involvement activities
- meet the provincial secondary school literacy diploma requirement through successful completion of either the Ontario Secondary School Literacy Test or the Ontario Secondary School Literacy Course.

#### Compulsory Credits:

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

- 4 credits in English (1 credit per grade)
- 1 credit in French as a second language
- 3 credits in mathematics (at least 1 credit in Grade 11 or 12)
- 2 credits in science
- 1 credit in Canadian history
- 1 credit in Canadian geography
- 1 credit in the arts
- 1 credit in health and physical education
- .5 credits in civics
- .5 credits in career studies

Plus one credit from each of the following groups:

- Group 1: additional credit in English, or second French, or a third language, or social sciences and the humanities or Canadian and world studies or guidance and career education or cooperative education\*\*\*
- Group2: additional credit in health and physical education, or the arts, or business studies or cooperative education\*\*\*
- Group3: additional credit in science (Grade 11 or 12) or technological education (Grades 9-12) or additional French credit or computer studies or cooperative education\*\*\*

\*\*\*a maximum of two co-op credits can count as compulsory credits

#### Optional Credits

In addition to the 18 compulsory credits, students must earn 12 optional credits selected from the courses listed as available in the school course calendar.

#### Community Involvement Requirements and Procedures

Every student must complete 40 hours of community involvement.

1. Select volunteer activities. There are many volunteer opportunities in the Elmira or north Waterloo areas.
2. In consultation with parents, contact the person or organization where you plan to volunteer.
3. Ensure that signatures from parents, sponsors, and the total number of hours are evident on the Activity Tracking Form. This form will be distributed in the fall and collected at least once during the year. Additional blank forms are available in Guidance.

#### Ontario Secondary School Literacy Requirement

All students must successfully complete the Ministry literacy requirement in order to earn a secondary school diploma. This may be accomplished by either successfully passing the Ontario Secondary School Literacy Test (OSSLT) or the Ontario Secondary School Literacy Course (OSSLC). Students will normally be administered the literacy test when they are in grade 10. The test is based on Ontario curriculum expectations for language and communication, particularly reading and writing, up to and including grade 9. There is no limit to the number of times the test may be re-taken.

The Ontario Secondary School Literacy Course has been developed to provide students who have been unsuccessful on the test with intensive support in achieving the required reading and writing competencies, and with an alternative means of demonstrating their literacy skills. Students who have been unsuccessful in the literacy test at least once may be eligible to take the course.

#### Full Disclosure for Grade 11 & 12

The Ministry of Education has a policy of **full disclosure**. This policy states that all grade 11 and 12 courses attempted by students must be recorded on Ontario Student Transcripts. Full Disclosure does not apply to students in grade 9 or 10. Any grade 11 or 12 course completed, dropped, or failed will appear on a student transcript along with the marks earned in the program.

Full disclosure will take effect on the 5<sup>th</sup> instructional day following the issue of the first formal Provincial report card, for single or multiple credit courses.

#### Certificate of Endorsement in Business Studies or Technological Studies

The Waterloo County Secondary Schools offer a Certificate of Endorsement in Business Studies or Technological Studies. A student who has gained a minimum of five credits in Business or five in Technological Studies **may apply** for a special WRDSB Certificate of Endorsement. See Business Department Head or Technological Studies Director for details. Students should request the recognition in the spring of their graduating year.

#### Compulsory Full-Time Attendance in Secondary School

In December 2006, the Ontario government passed legislation requiring all students to remain in school until the age of 18 (or graduation, if not yet 18). Students must select courses and be prepared to attend EDSS on a full-time basis. Full-time is defined as 4 credits per semester in Gr. 9/10 and 3 or 4 credits per semester in Gr. 11/12.

# DUAL CREDITS

Dual Credits offer students the opportunity to earn secondary and post-secondary credits at the same time.

The Waterloo Region District School Board offers 3 types of Dual Credits:

1. Advanced Standing: credits delivered fully in the secondary school
2. College Delivered Workplace: credits delivered partially or completely on the college campus
3. College Delivered Apprenticeship Preparation: credits delivered partially or completely on the college campus

Dual Credits are available to students in each of the four pathways: apprenticeship, college, university and workplace.

## 1. Advanced Standing Dual Credits

Advanced Standing Dual Credits are courses that have secondary school curriculum aligned with specified university or college courses. Students successfully completing the Advanced Standing Dual Credit course requirements which include a standardized assessment will receive both the secondary school credit and the specified university or college credit. The following chart indicates the courses currently available as Advanced Standing Dual Credits. The advanced standing university dual credits are:

Subject	Course Codes	University
Business Leadership: Management Fundamentals	BOH4U	Wilfrid Laurier University (Brantford)
Analysing Current Economic Issues	CIA4U	Wilfrid Laurier University
Earth and Space Science	SES4U	University of Waterloo

## 2. College Delivered Workplace Dual Credits

College delivered workplace Dual Credits offer students the opportunity to experience college while earning secondary credits. Students enrolled in these credits will attend Conestoga College and be registered as a college student. Eligible students participating in the Dual Credit Fundamentals programs will receive assistance (e.g., bus pass) for the commute to/from the college campus. There will be no cost to the student for tuition or textbooks. The college delivered dual credits are:

Subject	Course Codes
Brick and Masonry Fundamentals	YBRICK
Culinary (Cooking) Fundamentals	YCULIN
Mechanical (Plumbing and Heating) Fundamentals	YPLUMB

## 3. College Delivered Apprenticeship Preparation Dual Credits

Students wishing to pursue their apprenticeship may choose the College Delivered Preparation Apprenticeship Dual Credit program in Grade 12. This program allows the student to work in their chosen sector and to complete 2 college credits in their sector at Conestoga College while earning their Ontario Secondary School Diploma requirements. Apprenticeship Preparation credits will be applied to the first year college program in the related sector (e.g. — Automotive Service Technician, Cook, etc.). The college delivered apprenticeship preparation dual credits are:

College Program and Credit Availability	Course Codes
Automotive Service Technician — 2 college credits	OYAUTO
Cook — 2 college credits	OYCOOK
Early Childhood Education — 2 college credits	OYECED
Truck and Coach Technician — 2 college credits	OYTRUC
Welding	OYMETL

## OYAP

### Ontario Youth Apprenticeship Program (OYAP)

The Ontario Youth Apprenticeship Program (OYAP) is a specialized co-operative education program that provides students with an opportunity to experience working in an apprenticeship sector. Students may choose to pursue an apprenticeship in a skilled trade while completing their Ontario Secondary School Diploma requirements. OYAP students will receive an OYAP certificate for completion of the Grade 11 and / or Grade 12 co-operative education courses.

For additional information, see your Guidance counsellor or visit the website: [goOYAP.com](http://goOYAP.com)



## Cooperative Education and Experiential Learning

Co-operative Education is an experiential mode of learning that combines academic study and classroom theory with on-the-job experience. It involves a partnership between education and business, industry and labour. In most cases it involves a student, a teacher, an employer and a supervisor/employee. A course enhancement fee of \$20.00 applies to all co-op options at EDSS.

- 1) Choose 2 or 4 credit coop from the list below:

Course Code	Number of Credits	Examples
COOP2	2	Co-op 2 credit
COOP3	3	Co-op 3 credit
COOP4	4	Co-op 4 credit

- 2) Students **must** complete a co-op application form (available in the Guidance office) and submit it to the Co-op or Guidance offices by the **third week of February**. Student interviews will follow.

## EDSS Teacher Assistant Program (GPP3OY)

This is a single credit option for senior students who may not have room in their program for a full co-op program. It is particularly useful for a student considering a career in helping, in teaching, in public relations or in the job area directly related to a subject studied in high school. Skills learned include organizational skills, time management, subject competence, confidence and patience. TA's dedicate seven to eight hours per week to assist a teacher in a grade 9 or 10 classroom of their choice.

Students must select GPP3OY during course selection and complete a form signed by the teacher they would like to TA for.

## SPECIALIST HIGH SKILLS MAJOR (SHSM)

The Specialist High Skills Major (SHSM) offers grade 11 and 12 students the opportunity to explore a targeted career path in depth. This program may be completed at the University, College, Apprenticeship or Workplace level.

Successful completion of this enrichment program earns students a unique red seal of achievement on their graduation diplomas. In most cases, it also offers an advantage on post secondary program applications and job opportunities. In addition, some colleges and universities also offer specific scholarships to SHSM graduates. Most importantly, all students are impacted by the experiential learning connected to the mandatory Co-op placement.

Enrolment: Students officially enrol in the SHSM program in Grade 11. The program requires a 2 year commitment to complete the 9 credit course requirements.

EDSS offers three Specialist High Skills Major programs: **Health and Wellness (H&W)** and **Manufacturing and Environment** .

Some Examples of Career Opportunities in these sector areas include:

### Health & Wellness (H & W)

- **Apprenticeship Training:** Child and Youth Worker, Early Childhood Educator, Educational Assistant
- **College:** Ambulance Attendants, Paramedical Occupations, Biomedical Engineering Technologist
- **University:** Chiropractor, Dentist, Pharmacist
- **Workplace:** Certified Personal Trainer, Doctor's Office Receptionist, Fitness Instructor

### Manufacturing

- **Apprenticeship Training:** Electrician, Industrial Instrument Mechanic Millwright - Industrial, Precision Machinist, Precision Metal Fabricator, Tool and Die Maker, Welder
- **College:** Design and Drafting Technologist, Instrumentation and Control Technologist and Technician, Manufacturing Technician/Technologist, Production and Quality Control Technologist
- **University:** Chemical Engineer, Electrical Engineer, Computer Integrated Manufacturing, Industrial and Manufacturing Engineer, Mechanical Engineer
- **Workplace:** Foundry Worker, Inventory Clerk, Labourer, Material Handling, Machine Operator, Metal Machining, Motor Vehicle Assembler

**Environment** directs students toward courses which enhance global and environmental awareness.

- **Apprenticeship Training:** mechanic, arborist, heat and frost insulator, dairy herdsman
- **College:** paralegal, immigration officer, forest ecologist, biological technician
- **University:** environmental lawyer, landscape architect, power engineer, forestry professional
- **Workplace:** landscaper, gardener, florist, outdoor and recreation guide

For more information please visit the EDSS website: [eds.wrdsb.ca](http://eds.wrdsb.ca) or contact your Guidance.

# ELMIRA DISTRICT SECONDARY SCHOOL COURSE CALENDAR

Ministry of Education course descriptions are published in the WRDSB Common Course Calendar.

All basic materials essential for the completion of a program are made available by the school at no cost to students.

Fees for course enhancements are estimates and may change. Final amounts will be determined and communicated by September.

Students/families requiring financial assistance should contact any staff member. The staff member will ensure that the student's issue is dealt with in an appropriate, sensitive and confidential manner.

Grade	Course	Prerequisite	Course Details
<b>ARTS—DRAMA</b>			
9	ADA1OI - Open Dramatic Arts		Do you like to make a statement? Do you want your voice to be heard? No previous experience? No problem! This course allows students to explore dramatic techniques (tableau, creative movement, mime, improvisation), learn about the history of the stage, and gain competence with basic lighting and sound technology. Students will develop the skills necessary for acting – trust, self-confidence, teamwork, creativity, expressiveness, self-reflection – through work on short scenes, development of a monologue, journal writing and a group performance exam.
10	ADA2OI - Open Dramatic Arts		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.
11	ADA 3MI – University/College Preparation Dramatic Arts	ADA1OI or ADA2OI	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: ADA 1OI or ADA 2OI.
12	ADA4MI - University/College Preparation Dramatic Arts	ADA3OI or ADA3MI	This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theatre from various cultures and time periods. Students will interpret dramatic literature and other text and media sources while learning about various theories of directing and acting. Students will examine the significance of dramatic arts in various cultures, and will analyse how the knowledge and skills developed in drama are related to their personal skills, social awareness, and goals beyond secondary school. Prerequisite: ADA 3MI.
<b>ARTS—MUSIC</b>			
9	AMI1OI Music, Band		No experience required.
9	AMS1OI Music, Strings		A course for students who have experience with a stringed instrument.
9	AMS1OX Music, Strings		Introductory course for students with no experience with a stringed instrument.
10	AMI2OI Music, Band	Gr 9 music recommended	
10	AMS2OI Music, Strings	Gr 9 music recommended	
10	AMG 2OI Music, Guitar	Recommend Gr 9 music or 2 yrs. Of private guitar lesson	A course focusing on guitar performance and music literacy.
11	AMG3OI Music, Guitar	Recommend Gr 10 Guitar	An intermediate level guitar performance course
11	AMI3MI Music, Band	AMI1OI or AMI2OI	
11	AMS3MI Music, Strings	AMS1OI or AMS2OI	
11	AMX3MI Music (External)	Conservatory	One credit will be granted by presenting proof of the successful completion of practical and rudiments components from an approved list of Conservatory of Music institutions. Please see a Guidance counselor for details.
12	AMI4MI Music, Band	AMI3M1	
12	AMS4MI Music, Strings	AMS3M1	
12	AMU4MI Instrumental Music	AMI4M1 or AMS4M1	This is a music option reserved exclusively for 5 <sup>th</sup> year music students (band or strings)
12	AMX4MI Music (External)	Conservatory	One credit will be granted by presenting proof of the successful completion of practical and rudiments components from an approved list of Conservatory of Music institutions. Please see a Guidance counselor for details.
<b>Depending on numbers, senior music courses may be blended to create an orchestra class.</b>			
<b>ARTS—VISUAL</b>			
9	AVI1OI Visual Arts		This is an introductory course, no previous experience is required.
10	AVI2OI Visual Arts		This course is for students who have been successful in the Grade 9 Visual Arts program.
10	AVI2OX Visual Arts	Cannot have taken AVI2OI	This course is for students who did not study Visual Arts in Grade 9. It is intended for students in grades 10, 11 or 12.
11	AWS3MI Photography & Digital Art	AVI1OI, AVI2OI or AVI2OX	Students will be introduced to digital art including: creative photography, digital editing and manipulation techniques. They will create artworks that combine traditional mediums with digital art and explore graphic design and the creative integration of text.

Grade	Course	Prerequisite	Course Details
<b>ARTS—VISUAL (Continued)</b>			
11	AVI3MI Visual Arts	AVI1OI, AVI2OI, or AVI2OX	
12	AVI4MI Visual Arts	AVI3MI	Students will provide supplies for the independent study.
<b>BUSINESS STUDIES</b>			
9	BTT1OI Information and Communication Technology in Business		Students will use WORD, EXCEL, POWERPOINT, MS PUBLISHER, and WEEBLY for Website design
10	BBI2OI Introduction to Business		Computers will be used for research of various topics and for assignment preparation.
10	BTT2OI Information and Communication Technology in Business	Cannot take if have BTT1OI	Students will use WORD, EXCEL, POWERPOINT, MS PUBLISHER, and WEEBLY for Website design. This course is designed for students who did NOT take BTT1OI.
11	BAF3MI Financial Accounting Fundamentals		Students will use Excel and Simply Accounting.
11	BDI3CI Entrepreneurship: The Venture		Students will develop entrepreneurial skills while learning how to recognize, create and evaluate entrepreneurial opportunities. Using computer technology, students will create a business plan.
11	BTA3OI Information and Communication Technology: The Digital Environment in Business		Software covered includes Microsoft Office and Google Sites for the web page design component.
11	BMI3CI Marketing: Goods, Services, Events		See what companies do to sell their brands. Career opportunities in Marketing are endless.
12	BAT4MI Financial Accounting Principles	BAF3MI	This course introduces students to advanced accounting principles that will prepare them for post-secondary studies in Business.
12	BBB4MI International Business Fundamentals	A U/C course in Business or Canadian and World Studies	Find out how International Business affects everyone these days, whether you know it or not. The world has become one big marketplace and multinational companies have to learn how to compete. We will examine what companies have done well and pros and cons of global business.
12	IDC4OY <sup>A</sup> Sports and Entertainment Marketing		This course highlights one of the most successful, profitable, and fastest growing industries in the world. Learn the basic functions of marketing and how these are applied to the world of Sports and Entertainment. <sup>A</sup> students may only earn one IDC credit per grade level
<b>CANADIAN AND WORLD STUDIES</b>			
9	CGC1DI Canadian Geography		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
9	CGC1PI Canadian Geography		This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore issues relating to food and water supplies, competing land uses, interactions with the natural environment, and other topics relevant to sustainable living in Canada.
10	CHC2DI Canadian History Since WWI		This course explores social, economic, and political developments and events and their impact on the lives of different individuals, groups, and communities in Canada since 1914.
10	CHC2PI Canadian History Since WWI		This course focus is on the social context of historical developments and events and how they have affected the lives of people in Canada since 1914.
10	CHV2OH Civics		This course explores rights and responsibilities associated with being an active citizen in a democratic society.
11	CGG3OI Travel and Tourism	CGG1DI or CGC1PI	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. An optional trip will cost approximately \$750.00
11	CHW3MI World History to the End of the Fifteenth Century	CHC2DI or CHC2PI	In this course, students will learn about the first civilizations and focus of ancient civilizations from Mesopotamia, Egypt, Greece, Rome and the Middle Ages.
11	CLU3MI Canadian Law	CHC2DI or CHC2PI	Students will gain an understanding of laws relating to rights and freedoms in Canada; our legal system; and family, contract, employment, tort, and criminal law.
11	HRF3OI World Religions: Beliefs and Daily Life		In this course, students will learn about the history, beliefs, practices and culture related to the major religions in the world, including: Judaism, Christianity, Islam, Hinduism and Buddhism.
12	CGW4UI World Issues: A Geographic Analysis	U or U/ C prep. course in Canadian and World Studies, English or Social Sciences	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.
12	CHY4UI World History: Since the Fifteenth Century	U or U/ C prep. course in Canadian and World Studies, English or Social Sciences	In this course, students will learn about major events in Western European history, such as the Renaissance, Reformation, Enlightenment, French Revolution, Industrial Revolution and World Wars I and II.
12	CHY4CI World History: Since the Fifteenth Century	Any Gr. 11 or 12 College prep. course in Canadian and World Studies, English or Social Sciences	In this course, students will learn about major events in Western European history, such as the Renaissance, Reformation, Enlightenment, French Revolution, Industrial Revolution and World Wars I and II.
12	CHM4EI Adventures in World History	CHC2DI or CHC2PI	In this course students learn about interesting, important and unusual events from any point in world history based on selections made by the class.

Grade	Course	Prerequisite	Course Details
<b>CANADIAN AND WORLD STUDIES (Continued)</b>			
12	CIA4UI * Analyzing Current Economic Issues	U or U/ C prep. course in Canadian and World Studies, English or Social Sciences	In this course, students will be introduced to macroeconomic and microeconomic theories. Topics include supply and demand, production, taxation and trade. A university dual-credit (at WLU) may be earned in this course.
12	CLN4UI Canadian and International Law	U or U/ C prep. Course in Canadian and World Studies, English or Social Sciences	This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law.
<b>^Geography field trips are optional. Limited financial assistance may be available based on need.</b>			
<b>CLASSICAL &amp; INTERNATIONAL LANGUAGES</b>			
Level 2 (10)	LWSBDI Spanish		Introduction to Spanish. No previous experience required.
Level 3 (11)	LWSCUI	LWSBDI	This course provides opportunities for students to increase their competence and confidence in listening, speaking, reading and writing in Spanish.
<b>COMPUTER STUDIES</b>			
11	ICS3UI Introduction to Computer Science		This course introduces students to computer science. Students write and test computer programs and design software independently. They also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields. This course can be taken in grade 10, 11 or 12. No prior coding experience is needed.
11	ICS3CI Introduction to Computer Science		This course introduces students to computer programming concepts and practices. Students write and test computer programs using various problem-solving strategies and complete a software development project. They also learn about programming environments, and explore environmental issues, safe computing practices, emerging technologies, and postsecondary opportunities in computer-related fields. No prior coding experience is needed.
12	ICS4UI Computer Science	ICS3UI	Students further develop their knowledge and skills in computer science. They use modular design principles and object-oriented programming concepts to create complex and fully documented programs, and analyze algorithms for effectiveness. Student teams manage a large software development project, from planning through to project review. Students investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.
12	ICS4CI Computer Programming	ICS3CI	This course further develops students' computer programming skills. Students learn object oriented programming concepts, create object-oriented software solutions, and design graphical user interfaces. Student teams plan and carry out a software development project. Students also investigate ethical issues in computing, and expand their understanding of environmental issues, emerging technologies, and computer-related careers.
<b>CO-OPERATIVE EDUCATION</b>			
11 OR 12	COOP2 2 credit coop		Students selecting COOP must pick up an application in Guidance and meet with a COOP teacher to discuss placement opportunities
	COOP3 3 credit coop		
	COOP4 4 credit coop		
<b>ENGLISH</b>			
9	ENG1DI English, 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 analyse 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 on 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.
9	ENG1PI English, Applied		This course is designed to develop the key oral communication, reading, writing, and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students' comprehension of texts and to help them communicate clearly and effectively. 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.
9	ENG1LB English, Workplace		What does this mean and why does it matter to me? Be prepared to tackle this question over and over again in this course. You will get an opportunity to read articles, stories, poems and novels that will challenge you to summarize, question, discuss, react to and connect with what you are reading. You will have the opportunity to practice how to share your ideas in writing and with others, so that you can be successful inside and outside of the classroom!
10	ENG2DI English, Academic	ENG1DI	This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course. Prerequisite: English, Grade 9 Academic or Applied



Grade	Course	Prerequisite	Course Details
<b>ENGLISH (Continued)</b>			
10	ENG2PI English, Applied	ENG1DI or ENG1PI	This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in secondary school and daily life. Students will study and create a variety of informational, literary, and graphic texts. An important focus will be on the consolidation of strategies and processes that help students interpret texts and communicate clearly and effectively. This course is intended to prepare students for the compulsory Grade 11 college or workplace preparation course. Prerequisite: English, Grade 9, Academic or Applied
10	ENG2LB English, Workplace	ENG1LB	What does this mean and why does it matter to me? Be prepared to tackle this question over and over again in this course. You will get an opportunity to read articles, stories, poems and novels that will challenge you to summarize, question, discuss, react to and connect with what you are reading. You will have the opportunity to practice how to share your ideas in writing and with others, so that you can be successful inside and outside of the classroom!
11	ENG3UI English, University Preparation	ENG2DI	This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course. Prerequisite: ENG 2DI
11	ENG3CI English, College Preparation	ENG2PI or ENG 2DI	This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as literary texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity. The course is intended to prepare students for the compulsory Grade 12 college preparation course. Prerequisite: ENG 2PI
11	ENG3EI English, Workplace	ENG2P1 or ENG2LB	This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course. Prerequisite: ENG 2PI or ENG 2EB or ENG 2EI
12	ENG4UI English, University Preparation	ENG3UI	This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace. Prerequisite: ENG 3UI
12	ENG4CI English, College Preparation	ENG3CI or ENG 3UI	This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace. Prerequisite: ENG 3CI
12	ENG4EI English, Workplace	ENG3EI	This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship. Prerequisite: ENG 3EB / ENG 4EI
11	EMS3OI Media Studies	ENG2DI or ENG2PI or ENG2LB	Students will have the ability to help plan this course based on class interests and inquiries. Units of study can include news, advertising, social media, and media careers with an opportunity to analyze and create media using a variety of relevant tools. Our class will also collaborate with The Writer's Craft classes on projects.
11	EPS3OI Presentation and Speaking Skills	ENG2DI or ENG2PI or ENG2LB	This course is designed to help students become better presenters and speakers. We use games, scenarios and group activities to help students manage stage-fright and presentation anxiety. We create and analyze speeches for good speech writing and delivery techniques. In a safe and brave environment, students are encouraged to take risks and try techniques to improve their skills as presenters and communicators.
12	ETS4UY Film and Literature	ENG3UI	How is a novel created from a screenplay for a motion picture? How is a major motion picture made from an original novel, graphic novel or play? How does the change in the medium affect elements of story? Study film and literature together to find out. This course is designed for University bound students..

Grade	Course	Prerequisite	Course Details
<b>ENGLISH (Continued)</b>			
12	EWC4UI The Writer's Craft	ENG3UI	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.
12	EWC4CI The Writer's Craft	ENG3CI or ENG3UI	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. <b>Cannot receive a credit for both EWC4CI and EWC4CX</b>
12	EWC 4CX The Writer's Craft	ENG3CI or ENG3UI	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. <b>Cannot receive a credit for both EWC4CI and EWC4CX</b>
<b>FRENCH</b>			
9	FSF1DI Core French		Provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives.
9	FSF1PI Core French		Provides opportunities for students to communicate and interact in French in structured situations, with a focus on everyday topics.
9	FSF1DX French Immersion		This course is for students entering EDSS from a Grade 8 French Immersion program.
10	FSF2DI Core French	FSF1DI or FSF1PI	This course provides opportunities for students to communicate in French about personally relevant, familiar and academic topics in real-life situations with increasing independence.
11	FSF3UI Core French	FSF2DI	This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence.
12	FSF4UI Core French	FSF3UI	This course provides extensive opportunities for students to speak and interact in French independently. Students receive a certificate upon successful completion of this course. Students are also encouraged to take the DELF certification exam.
<b>GUIDANCE &amp; CAREER STUDIES</b>			
10	GLC2OH Career Studies		This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.
11	GPP3OY – Leadership and Peer Support		This course emphasizes mentoring skills and support strategies. Guidance permission & teacher reference are required
<b>HEALTH &amp; PHYSICAL EDUCATION <i>**Lancer Uniforms are required for ALL Phys. Ed. Courses**</i></b>			
9	PPL1OX Healthy Active Living		Females (May participate in bowling at the cost of \$5.00 per session)
9	PPL1OY Healthy Active Living		Males There may be a Bowling Unit with a cost of \$35.00 (approx.)
10	PPL2OX Healthy Active Living		Female There may be a Bowling Unit with a cost of \$35.00 (approx.)
10	PPL2OY Healthy Active Living		Males There may be a Bowling Unit with a cost of \$35.00 (approx.)
10	PAF2OX Livefit		Live Fit--Females--Focus on personal fitness Field trip and guest speaker fee of \$50.00
10	PAF 2OY Powerfit		Power Fit --Males--Focus on personal fitness
11	PPL3OX Healthy Active Living		Females There may be a Bowling Unit with a cost of \$35.00 (approx.)
11	PPL3OY Healthy Active Living		Males There may be a Bowling Unit with a cost of \$35.00 (approx.)
11	PAF 3OX Livefit		Live Fit--Females--Focus on personal fitness Field trip and guest speaker fee of \$50.00
11	PAF 3OY Powerfit		Power Fit --Males---Focus on personal fitness.
12	PPL4OI Healthy Active Living		Students choose options and MAY spend between \$15.00 and \$200.00. 2 mandatory health units must be completed.
12	PSK4UI Introductory Kinesiology	U or U/C Science, or senior level Health and Phys Ed	A \$20.00 fee for workbook is required

Grade	Course	Prerequisite	Course Details
<b>INTERDISCIPLINARY STUDIES—You may only earn one IDC credit per grade level</b>			
11	AWD3OI Applied Journalism		EDSS Yearbook class. (Year 1)
12	IDC4OI Applied Journalism	AWD3OI	EDSS Yearbook class. (Year 2) ^students may only earn one IDC credit per grade level
11	IDC3OX^--Leadership	Students selecting Leadership must pick up an application in Guidance.	EDSS Student Council leadership course (Year 1) ^students may only earn one IDC credit per grade level
12	IDC4OX^--Leadership		EDSS Student Council leadership course (Year 2) ^students may only earn one IDC credit per grade level
12	IDC4OY—Sports & Entertainment Marketing		See Business. Students may only earn one IDC credit per grade level
<b>MATHEMATICS</b>			
9	MPM1DI Mathematics – Academic		Students develop abstract reasoning and understanding of mathematical concepts related to rational numbers, powers, polynomials, linear relations, linear equations, analytic geometry, investigating relationships, 2-dimensional figures and measurement. They develop problem solving skills and communicate their thinking as they solve multistep problems. An inexpensive scientific calculator is needed for testing purposes.
9	MFM1PI Mathematics – Applied		Students develop an understanding of mathematical concepts related to measurement, angles, proportional reasoning, graphing relations, linear relations and polynomials through investigation, effective use of technology, and hands-on activities. They consolidate their mathematical skills as they solve problems and communicate their thinking. An inexpensive scientific calculator is needed for testing purposes.
9	MAT1LB Mathematics – Essential		To prepare students for success in everyday life and the workplace, this course focuses on developing and consolidating key foundational mathematical concepts and skills. Students have opportunities to develop their mathematical literacy and problem-solving skills through relevant and practical math activities and authentic, everyday problems related to money sense, measurement, and proportional reasoning. An inexpensive scientific calculator is needed for testing purposes.
10	MPM2DI Mathematics – Academic	MPM1DI	Students extend their problem-solving, abstract reasoning and algebraic skills related to systems of linear equations, analytic geometry, graphs of quadratic relations, factoring algebraic expressions, applying quadratic models, quadratic equations, similar triangles and trigonometry. Students reason mathematically as they solve multistep problems and communicate their thinking. An inexpensive scientific calculator is needed for testing purposes.
10	MFM2PI Mathematics – Applied	MPM1DI or MFM1PI	Through investigation, the effective use of technology, and hands-on activities, students develop an understanding of mathematical concepts related to measurement systems, similar triangles, right triangle trigonometry, linear relations, linear equations, linear systems, quadratic relations, quadratic expressions, volume and surface area. They consolidate their understanding and extend their problem-solving and algebraic skills as they solve problems and communicate their thinking. An inexpensive scientific calculator is needed for testing purposes.
10	MAT2LB Mathematics – Essential	MFM1LB	To prepare students for success in everyday life and the workplace, this course emphasizes strengthening and extending key foundational mathematical concepts and skills. Students have opportunities to further develop their mathematical literacy and problem-solving skills through relevant and practical math activities and authentic, everyday problems related to money sense, measurement, and proportional reasoning. An inexpensive scientific calculator is needed for testing purposes.
11	MCR3UI Functions	MPM2DI	This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Topics include equivalent algebraic expressions, quadratic, exponential, trigonometric and sinusoidal functions, sequences, series and financial applications. Students reason mathematically as they solve multi-step problems and communicate their thinking. An inexpensive scientific calculator is needed for testing purposes.
11	MCF3MI Functions and applications	MPM2DI or MFM2PI^	Students are advised to consider this path if they have a strong work ethic and either at least 85% in MFM2PI or success in MPM2DI. This course introduces basic features of the function by extending students' experiences with quadratic relations. Students represent quadratic, trigonometric, and exponential functions numerically, graphically, and algebraically, simplify expressions, solve equations and solve problems relating to financial and trigonometric applications. Students reason mathematically as they solve multi-step problems and communicate their thinking. An inexpensive scientific calculator is needed for testing purposes..
11	MBF3CI Foundations of College Math	MFM2PI	Students broaden their understanding of mathematics as a problem-solving tool in the real world by extending their knowledge in trigonometry, quadratic relations, exponents, compound interest, personal finance, probability, statistics and geometry. Students consolidate their mathematical skills as they solve problems and communicate their thinking. An inexpensive scientific calculator is needed for testing purposes.
11	MEL3EI Mathematics for Everyday Life	MAT2LB or MFM1PI	Students broaden their understanding of mathematics as it is applied in the workplace and daily life by solving problems associated with earning money, paying taxes, making purchases, saving, investing, borrowing, transportation and travel. Students consolidate their mathematical skills as they solve problems and communicate their thinking. Grade 10 math is highly recommended. An inexpensive scientific calculator is needed for testing purposes.
12	MCV4UI Calculus and Vectors	MHF4UI (or studied concurrently)	This course is intended both for students who plan to study mathematics, science or engineering in university and for those wishing to further their understanding of mathematics before proceeding to other university programs. Students solve problems involving vectors, lines and planes in three-dimensional space and derivatives of polynomial, rational, exponential, and sinusoidal functions. An inexpensive scientific calculator is needed for testing purposes.

Grade	Course	Prerequisite	Course Details
<b>MATHEMATICS (Continued)</b>			
12	MHF4UI Advanced Functions	MCR3UI or MCT4CI	This course is intended both for students who plan to study mathematics, science or engineering in university and for those wishing to consolidate their understanding of mathematics before proceeding to other university programs. Students investigate the properties of polynomial, rational, trigonometric, logarithmic and exponential functions and combinations of functions graphically and algebraically. They also broaden their understanding of rates of change. An inexpensive scientific calculator is needed for testing purposes.
12	MDM4UI Mathematics of Data Management	MCR3UI or MCF3MI	This course is intended for university-bound students who plan to study mathematics, related programs or business, social science or the humanities. It broadens students' understanding of mathematics as it relates to managing data. Students solve problems involving counting, probability and statistics and apply methods for organizing and analyzing large amounts of information in a culminating project. An inexpensive scientific calculator is needed for testing purposes.
12	MCT4CI Mathematics for College Technology	MCF3MI or MCR3UI	This course prepares students for a variety of college technology programs and skilled trades. It also serves as a prerequisite for MHF4UI. Students reason mathematically as they solve multi-step problems and communicate their thinking related to applications of trigonometry, sinusoidal functions, modelling with vectors, exponential expressions, exponential equations, exponential functions, polynomial functions, polynomial equations and geometry. An inexpensive scientific calculator is needed for testing purposes.
12	MAP4CI Foundations for College Math	MBF3CI	This course prepares students for college programs in areas such as business, health sciences, human services and certain skilled trades. Students broaden their understanding of real-world applications of mathematics they reason mathematically, communicate their thinking and solve multi-step problems related to trigonometry, geometry, two-variable data, statistical literacy, graphical models, algebraic models, annuities, mortgages and budgeting. An inexpensive scientific calculator is needed for testing purposes.
12	MEL4EI - Mathematics for Everyday Life	MEL3EI	Students broaden their understanding of mathematics as it is applied in the workplace and daily life. They investigate questions involving statistics, probability, accommodation costs, household budgets, proportional reasoning, estimation, measurement and geometric concepts. Students consolidate their mathematical skills as they solve problems and communicate their thinking. An inexpensive scientific calculator is needed for testing purposes.
<b>NATIVE STUDIES</b>			
11	NDA3MI Current Aboriginal Issues in Canada	CHC2PI or CHC2DI	This course focuses on existing and emerging issues of importance to Canada's Aboriginal peoples.
12	NDW4MI Issues of Indigenous Peoples in a Global Context	Any Gr 11 course in Native Studies (or permission of principal)	This course provides an overview of the issues and challenges confronting indigenous people worldwide.
<b>SCIENCE</b>			
9	SNC1DI Science		Students will explore scientific theories and application as they study sustainable ecosystems; the properties of elements and compounds; the study of the universe and its composition; and the principles of electricity.
9	SNC1PI Science		Students will develop their understanding and application of practical skills as they study 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.
10	SNC2DI Science	SNC1DI or SNC1PI	Students continue their study of scientific theories as they explore 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.
10	SNC2PI Science	SNC1DI or SNC1PI	Students further develop practical scientific skills as they 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.
11	SBI3CI Biology	SNC2DI or SNC2PI	Students will focus of the processes and practical applications that occur in biological systems, including areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment.
11	SBI3UI Biology	SNC2DI	This course furthers students' understanding of the processes that occur in biological systems, including the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants.
11	SCH3UI Chemistry	SNC2DI	This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases.
11	SVN 3EI Environmental Science	SNC2DI or SNC2PI or SNC2LB	<b>* This course is offered every year in conjunction with the Green Industries course THJ3EI.</b> 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.
11	SPH3UI Physics	SNC2DI	Students will they will enhance their scientific investigation skills as they test laws of physics while exploring subject areas such as kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. <b>* Scientific calculator required. Minimum of 70% in MPM2D1 recommended.</b>

Grade	Course	Prerequisite	Course Details
<b>SCIENCE (Continued)</b>			
12	SBI4UI Biology	SBI3UI	This course provides students with the opportunity to further study the concepts and processes that occur in biological systems within the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. <b>* SCH3UI or SCH4CI are recommended prerequisites.</b>
12	SCH4CI Chemistry	SNC2DI or SNC2PI	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. Emphasis will be placed on the role of chemistry in daily life and the environment.
12	SCH4UI Chemistry	SCH3UI	This course enables students to deepen their understanding of chemistry and their analytical skills through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry.
12	SES4UI* Earth and Space Science	SNC2DI	<b>* Dual credit available – see page 3</b> Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives.
12	SPH4CI Physics	SNC2DI or SNC2PI	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.
12	SPH4UI Physics	SPH3UI	Students will deepen their understanding of physics concepts and theories through 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. <b>* Minimum of 70% in either Gr 11 U or M math and in SPH 3UI recommended.</b>
12	SNC4MI Science	SNC 2D1 or any grade 11 science	This course enables students, increase their understanding of science and contemporary social and environmental issues in health-related fields and careers in medical science. Students will explore a variety of medical technologies, pathogens and disease, nutritional science, public health issues, and biotechnology.
<b>SOCIAL SCIENCES AND HUMANITIES</b>			
9	HFN1OI Food and Nutrition		This course focuses on guidelines for making nutritious food choices and food preparation techniques.
10	HFN2OI Food and Nutrition		This course is available only to those students who have not already received a credit for HFN1OI
11	HPC3OI (parenting) Raising Healthy Children		This course focuses on the skills and knowledge caregivers need on maternal health, pregnancy, birth, and the early years of human development (birth to six years old).
11	HFC3EI Food and Culture		Students will learn about the flavours, aromas, cooking techniques, foods, and cultural traditions of world cuisines.
11	HNC3CI Understanding Fashion		This course introduces students to the world of fashion and techniques to create fashion items.
11	HSP3CI--Anthropology, Psychology, and Sociology		In this course students are introduced to anthropology, psychology and sociology. Topics include culture, learning, personality and socialization.
11	HSP3UI--Anthropology, Psychology, and Sociology	Grade 10 Academic English or History	In this course students are introduced to anthropology, psychology and sociology. Topics include culture, learning, personality and socialization.
11	HLS3OI—Housing and Home Design		Students will learn the elements and principles of design to analyse design and decorating decisions.
12	HFA4CI Nutrition and Health	Grade 11 U, U/C or C Course in Social Science, English or Canadian and World Studies	This course examines the relationships between food, energy balance, nutritional status, and expand knowledge of food-preparation techniques.
12	HFA4UI Nutrition and Health	Grade 11 U or U/C Course in Social Science, English or Canadian and World Studies	This course examines the relationships between food, energy balance, nutritional status, and expand knowledge of food-preparation techniques.
12	HHG4MI Human Growth and Development	Grade 11 U, U/C or C Course in Social Science, English or Canadian and World Studies	This course offers a multidisciplinary approach to the study of human development throughout the lifespan. Students will learn about physical, cognitive, and social-emotional development from the prenatal period through old age.
12	HHS4CI Families in Canada	Grade 11 U, U/C, or C Course in Social Science, English or Canadian and World Studies	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.
12	HHS4UI Families in Canada	Grade 11 U or U/C Course in Social Science, English or Canadian and World Studies	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.
12	HNB4MI The World of Fashion	Grade 11 U, U/C or C Course in Social Science, English or Canadian and World Studies	This course gives students the opportunity to explore the world of fashion. Students will learn how to create a fashion product and learn about the global fashion industry.

Grade	Course	Prerequisite	Course Details
<b>SPECIAL EDUCATION</b>			
9	GLE1OI Learning Strategies		Course available only with the recommendation of Special Education teacher.
10	GLE2OI Learning Strategies	GLE1OI Recommended	Course available only with the recommendation of Special Education teacher.
11	GLE3OI Learning Strategies	GLE2OI Recommended	Course available only with the recommendation of Special Education teacher.
12	GLE4OI Learning Strategies	GLE1OI, GLE2OI and GLE3OI Recommended	Course available only with the recommendation of Special Education teacher
<b>TECHNOLOGICAL EDUCATION</b>			
<b>When to take an “I” technology course and when to take an “X”</b> <b>In Grade 11 and 12 it is recommended that students take the “I” course if they wish one credit in the subject area and that they take both the “I” and the “X” courses if they wish two credits in the subject area.</b>			
9	TIJ1OI Skilled Trades		Technology rotation exploring electrical, green industries, manufacturing, transportation and woodworking.
9	TIJ1OX Emerging Technologies		Technology rotation exploring communications, computer engineering, programming and technological design.
10	TGJ2OI Communication Technology		This is a foundation course, preparing students for senior courses in communication technology. Projects in graphics, animation, audio, video, photography, desktop publishing design, internet, web page design and application of each.
10	TMJ2OI - Manufacturing		This is a foundation course, preparing students for senior courses in manufacturing (machine shop or electrical automation emphasis).
10	TCJ2OI Construction Technology		A broad based foundation course preparing students for senior courses in the areas of wood framing, structures, blueprints, electrical and plumbing. Students will learn about and complete practical projects related to all trades involved in building a house.
10	TTJ2OI Transportation Technology		This is a foundation course, preparing students for senior courses in transportation technology. This broad based course is an introduction to the service and maintenance of motorized vehicles using proper tools and repair techniques.
10	TDJ2OI Technological Design		This is a foundation course, preparing students for university/ college level courses in both technological design and Computer Engineering courses. Engineering design solutions and processes of products through modeling, CAD and computer peripheral devices.
<b>TECHNOLOGICAL EDUCATION – COMMUNICATION TECHNOLOGY</b>			
11	TGJ3MI Communication Technology	TGJ2OI strongly recommended	Students will develop knowledge and skills as they design and produce media projects in the areas of video, audio, print and graphic communications; photography, digital imaging, and interactive new media.
12	TGJ4MI Communication Technology	TGJ3MI	Students will mature their knowledge and skills as they dive deeper into areas of media production that interest them; including options in Video, Audio, Graphic Design and Interactive media.
<b>TECHNOLOGICAL EDUCATION – COMPUTER ENGINEERING TECHNOLOGY</b>			
11	TEJ3MI Computer Engineering	TDJ2OI & TMJ 2OI recommended	This course examines computer systems and control of external devices. Students will develop skills in electronics, robotics and networks.
11	TEL3MX Robotics and Controls Systems	Should be taken with TEJ3MI	A robotics course for students also taking TEJ3MI and wishing a second credit with more engineering design emphasis in Grade 11.
12	TEJ4MI Computer Engineering	TEJ3MI	This course extends students understanding of computer automation and control systems. Students will extend their knowledge of electronics, robotics and computer network systems.
12	TEL4MX Robotics and Controls Systems	Should be taken with TEJ4MI	A robotics emphasis course for students also taking TEJ4MI and wishing a second credit with a greater engineering design focus in Grade 12.
<b>TECHNOLOGICAL EDUCATION – MANUFACTURING TECHNOLOGY</b>			
11	TMJ3EI Manufacturing	TMJ2OI recommended	This course introduces all elements of manufacturing such as metal work, machining, welding, and design (including computer programs). This course is to develop an understanding of the current manufacturing industry.
11	TMO3EX Machine operator emphasis	Should be taken with TMJ3EI	This course enhances knowledge of the manufacturing processes including an in-depth study of the design process and to refine skills on various machines.
12	TMJ4EI Manufacturing	TMJ3EI	This course focuses on using machines such as CNC mills, metal lathes, and welding equipment. There is also a design component and several projects throughout the semester.
12	TM04EX Machine operator emphasis	TMJ3EI Should be taken with TMJ 4EI	The complement course is TMJ 4EI. This course emphasizes the design side of manufacturing focusing on AutoCAD and CNC machining. There are several projects throughout the semester.
<b>TECHNOLOGICAL EDUCATION – CONSTRUCTION TECHNOLOGY</b>			
11	TCJ3EI Construction Technology	TCJ2OI highly recommended Should be taken with TCE 3EX	A broad based construction course developing technical knowledge and skills related to residential construction including electrical, framing, roofing, drywall and plumbing.
11	TCE3EX Construction Technology: Electrical	TCJ2OI highly recommended Should be taken with TCJ 3EI	An electrical controls emphasis course for students also taking TCJ3EI wishing a second construction technology credit focusing on heating and air conditioning systems and the integration of gas fitters installations (introduction), plus heat recovery systems.
12	TCJ4EI Construction Technology	TCJ3EI highly recommended Should be taken with TCE 4EX	A broad based construction course enabling students to further develop knowledge and skills related to residential and commercial construction including electrical controls, structures, and plumbing.
12	TCE4EX Construction Technology: Electrical	TCE3EX highly recommended Should be taken with TCJ4EI	An electrical controls emphasis course for students also taking TCJ4EI wishing a second construction technology credit focusing on mechanical systems and the integration of gas fitters controls installation (advanced) plus ventilation actuator controls.

Grade	Course	Prerequisite	Course Details
<b>TECHNOLOGICAL EDUCATION (Continued)</b>			
<b>TECHNOLOGICAL EDUCATION – CUSTOM WOODWORKING AND WOOD CONSTRUCTION</b>			
11	TWJ3EI Custom Woodworking	TCJ2OI recommended	Focusing on cabinet and furniture making. Students will create and interpret technical drawings and will plan, design and fabricate projects in the woodshop.
12	TWJ4EI Custom Woodworking	Woodworking Grade 11 TWJ 3EI	A project based course, students will further develop their woodworking skills through the design and manufacturing of individual and community based projects.
<b>TECHNOLOGICAL EDUCATION – TRANSPORTATION TECHNOLOGY</b>			
11	TTJ3CI Transportation Technology	TTJ2OI recommended	In this broad based course, students will develop knowledge and technical skills in general vehicle service and repairs.
11	TTA3CX Vehicle service emphasis	Should be taken with TTJ3CI	A vehicle service emphasis courses for students also taking TTJ3CI and wishing a second automotive Grade 11 credit, focusing on vehicle systems such as electrical, suspension, brakes and steering.
12	TTJ4CI Transportation Technology	Transportation Technology Grade 11 TTJ 3CI. Should be taken with TTA4CX	In this broad based course, students will further develop knowledge and technical skills in vehicle service and repair.
12	TTA4CX Vehicle service emphasis	Should be taken with TTJ4CI	A vehicle service emphasis course for students also taking TTJ4CI and wishing a second automotive Grade 12 credits, focusing on vehicle systems such as anti-lock brakes, supplementary restraint systems and computerized fuel management systems.
<b>TECHNOLOGICAL EDUCATION – TECHNICAL DESIGN</b>			
11	TDJ3MI Technological Design	TDJ2OI recommended	Engineering design challenges in architecture and mechanical products. CAD designs using inventor and architecture software using Revit. Students will design and make products using a 3D printer.
12	TDJ4MI Technological Design	Technological Design Grade 11 TDJ 3MI	Advanced Engineering design including civil, mechanical and architectural design. Students will design and make a CO <sub>2</sub> car using the 3D printer. This course is an add on to TDJ3MI.
<b>GREEN INDUSTRIES</b>			
11	THJ3EI Green Industries		A hands-on course where students will develop skills and knowledge in horticulture, agriculture, forestry, floristry and landscaping. This course is offered every year in conjunction with the Environmental Science course SVN3EI.

### Construction Technology Pathways:

Feedback from local building contractors emphasize that students diversify their skills sets. Students are encouraged to enroll in Tech Design (TDJ2OI) and Construction Tech (TCJ2OI).

Students can then focus their skills sets in Grades 11 and 12 through:

- Tech Design > TDJ3MI > TDJ4MI  
&/or
- Construction Technology > TCJ3EI > TCJ4EI &/or TCH3EX > TCH4EX &/or TWJ 3EI > TWJ 4EI

**Education is the most powerful weapon which you can use to change the world.**

**Nelson Mandela**