

# Southwood Secondary School



## 2019 – 2020 Course Calendar

**30 Southwood Drive  
Cambridge, Ontario  
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Southwood Website: <https://sss.wrdsb.ca>

# Southwood Secondary School

## Course Calendar 2019-2020

**Principal: Ms. V. Collis**

**Vice Principal: Mr. S. Gray (A-K)  
Mr. D. Linnerth (L-Z)**

**Head of Counselling: Mrs. J. Madge**

This supplement is to be used to select your courses. If more information is required you should consult the WRDSD's *Common Course Calendar*, on the school website: <https://sss.wrdsb.ca>.

***Please choose your courses carefully; course changes are not always possible.*** Students in grades 9 and 10 may not drop courses. Students in grade 11 must have at least 16 credits as well as special permission, before a class may be dropped. No requests to drop courses will be granted after the first Friday in December in semester one or after the Victoria Day holiday in the second semester.

Students in Grades 9 and 10 must take eight courses. Students in Grade 11 must take eight courses. Students in Grade 12 must take a minimum of three courses each semester unless they will exceed the 34 credit threshold. A student must have accumulated 29 credits to be eligible for part-time status. If a part-time student is taking three or more courses, three of those courses must be taken in Semester 1.

### **The 34 credit threshold**

The 34 credit cap was announced by the Ministry of Education and was implemented commencing September 1, 2013. The cap is more accurately termed a *34 credit threshold* because it places a limitation on funding and not on participation by students in courses. Students can take more than 34 credits but school boards will be funded at the **continuing education rate** for the 35<sup>th</sup> credit and beyond. As a result, students enrolled at Southwood Secondary School in 2016-2017 and beyond should plan on not exceeding the 34 credit threshold. If you plan to exceed 34 credits, approval by the Principal is required.

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

- earn 30 credits (18 compulsory and 12 optional credits)
- complete 40 hours of community involvement activities
- Successfully complete the provincial secondary school literacy requirement

### **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 credit in Civics
- .5 credit in Career Studies
  
- Group One - 1 additional credit in English, or French as a second language \*\*, or a Native language, or a classical or an international language, or Social Sciences and the Humanities or Canadian and World Studies, or Guidance and Career Education, or Cooperative Education\*\*\*
  
- Group Two - 1 additional credit in Health and Physical Education, or the Arts, or Business Studies, or French as a second language \*\*, or Cooperative Education\*\*\*
  
- Group Three - 1 additional credit in Science (Grade 11 or 12) or Technological Education, or French as a second language \*\*, or Computer Studies, or Cooperative Education\*\*\*

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

*\*\* In groups 1, 2, and 3, a maximum of 2 credits in French as a second language can count as compulsory credits, one from group 1 and one from either group 2 or group 3.*

*\*\*\* A maximum of 2 credits in cooperative education can count as compulsory credits.*

### **Alternative Credit Acquisition**

There are alternative methods of obtaining credits, for special circumstances.

The alternatives include:

- Night school
- Summer school (upgrade and new credit)
- E-Learning
- Independent Learning Centre (I.L.C.)

See your Guidance Counsellor for more information.

### **Fees**

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.

### **Student Assistance**

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

# ADVANCED PLACEMENT (AP) At SOUTHWOOD SECONDARY SCHOOL

## What is AP?

Advanced Placement enables willing and academically prepared students to pursue university-level courses, with the opportunity to earn university level credits while still in high school. We will be offering some preparatory AP (Pre-AP) subjects in grades 9-11.

## What does the AP Pathway look like at Southwood?

Grade	(Pre) Advanced Placement Subjects	
9	Pre-AP French Pre-AP Geography Pre-AP Science	
10	Pre-AP French Pre-AP Geography Pre-AP History Pre-AP Science	
11	Pre-AP French Pre-AP Environmental Science (Geography) Pre-AP Biology	
12	<p><u>Pathway Subjects</u>  <b>AP will be offered as part of the academic program - teachers will offer extended learning for students wanting to write AP exams.</b>            Students will be eligible to write the AP exam that could earn them a university credit if successful on that exam.</p> <p>AP French            AP Environmental Science (Geography)            AP History            AP Biology            AP Economics</p>	<p>All local universities offer AP Credit:</p> <p><a href="#">WLU Admissions</a></p> <p><a href="#">U Waterloo Admissions</a></p> <p><a href="#">Guelph U Admissions</a></p> <p><i>*All grade 12 AP exams are written in May at <b>Southwood.</b></i></p>

**FEES:** There will be an approximate fee of \$120.00 for taking an AP exam in your child's grade 12 year, as the College Board needs to produce the exam, mark it and send the outcome to the university your child plans to attend. (Still far cheaper than a first year university credit.)

## The Arts

Grade	Course	Type	Prerequisite	Course Details
9	<b>AMI1OI</b> Instrumental Music - Band (experienced)	Open		This performance course is for students with previous experience on a concert band instrument. The development of playing skills, musical literacy, and critical listening are the focus for this course. A wide variety of musical styles will be explored.
9	<b>AMI1OX</b> Instrumental Music – Band (beginner)	Open		This course teaches you how to play a brass or woodwind instrument, to play in small and large group settings, and to read music and listen to music critically.
9	<b>AMV1OI</b> Vocal Music	Open		This course develops your singing voice. Performing in small and large groups, strengthening musical literacy skills, listening to and creating music from a wide variety of styles are featured.
9	<b>AVI1OI</b> Visual Arts	Open		This hands-on course provides students with a foundation on which to build further study in art. A variety of mediums (eg. drawing, painting, printmaking, sculpture) and techniques will be explored.
10	<b>ADA2OI</b> Dramatic Arts	Open		In this course students will be introduced to the foundations of theatre including: tableau, creative movement, stage combat, characterization, scene work, vocal work, choral speaking; and an introduction to technical theatre in lighting, sound and stage design. Throughout the course students are encouraged to attend off-campus field trips in order to successfully critique live theatrical work, and gain a deeper understanding of the various roles and jobs available in theatres. In this course students will demonstrate their understanding of the creative process by culminating their learning into a monologue performance by the end of the semester. <b>This course may be taken in grade 9 or 10.</b>
10	<b>AMG2OI</b> Guitar	Open		This course teaches you how to play the guitar in solo and group settings. Classical finger techniques, chord strumming and arpeggiating are all featured. Musical literacy and listening skills are introduced.
10	<b>AMi2OI</b> Instrumental Music Band	Open	AMI1OI is recommended	This course continues to develop and build on performance skills by playing more challenging repertoire. Strengthening literacy skills and a more in depth exploration of musical styles and genres are also a focus.
10	<b>AMV2OI</b> Vocal/Choral Music	Open	AMV1OI or AMI1OI is recommended	Choral singing and the development of the individual voice form the basis of this course. Musical literacy skills are extended and critical listening to choral music from many styles and traditions is explored.
10	<b>AVI2OI</b> Visual Arts	Open	AVI1OI is recommended	This course aims to further develop skills and knowledge in visual arts with emphasis on studio activities. Drawing, painting, clay construction, and printmaking are some examples of the media covered.
10	<b>AWS2OI</b> Computer Graphics	Open	None	Develops and refines theories and concepts linked to the graphic design industry through: Adobe Photoshop, Indesign, Illustrator, scanning, digital manipulation, typography, and the elements and principles of design. Students will study various styles of design & incorporate them into their artwork.
11	<b>ADA3MI</b> Dramatic Arts	University/ College		This course requires students to create and perform dramatic presentations throughout the semester in a variety of theatre styles, and for a varying number of audience members including their peers, school and community. 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. Students will experiment with a variety of forms of theatre including site-specific work, and social issue-driven work. Students will research dramatic forms, conventions, themes, and theories of acting and directing from different historical periods, including Canadian works. Throughout this course students are encouraged to attend multiple off-campus field trips and respond with formal written reviews. This course culminates with an in-class exam.

The Arts . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
11	<b>AMG3OI</b> Guitar	Open	AMG2OI	This second year guitar course involves more complex repertoire and playing techniques. Listening and literacy skills continue to be developed and explored.
11	<b>AMI3MI</b> Instrumental Music - Band	University/ College	AMI1OI or AMI2OI	This further develops performance technique through a variety of music. Literacy and listening skills continue to be developed. Composition and harmonizing are introduced. Connections between classical music to one's own music are explored.
11	<b>AMV3MI</b> Vocal/Choral Music	University/ College	AMV1OI or AMV2OI	Senior choral repertoire forms the core of this course. Vocal technique is refined and part-singing security is stressed. Musical literacy and listening skills are further extended. Connections from classical to one's own music are explored.
11	<b>ASM3MI</b> Media Arts (yearbook)	University/ College	AWS2OI AWQ3MI/3OI AVI3MI	This course emphasizes development of print media and imaging skills through the production of the thematic body of work that is Southwood's yearbook. Students will develop the skills necessary to interpret a variety of print and internet-based media productions. They will learn and apply traditional and emerging technologies, tools, and techniques such as layout and design, photography, industry-stranded digital imaging/publishing software, and journalism and examine how the resulting means of communication can shape audience perceptions of school identity, culture, and community values. Using responsible, collaborative practices when engaged in yearbook production is a vital part of success in this course.
11	<b>AVI3MI</b> Visual Arts	University/ College	AVI1OI or AVI2OI	This comprehensive 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 mixed media works and works using emergent technologies. Students will use the critical analysis process when evaluating their own work, the work of peers and historical works of art.
11	<b>AWQ3MI</b> Digital Photography	University/ College	AVI1OI or AVI2OI	This course aims to develop the student's digital camera skills through design, production and manipulation of their personal photographic images. Students will demonstrate a knowledge and application of photography through photographs of their personal environment and community. They will also explore the history of photography, importance and impact of photography on society and careers.
11	<b>AWQ3OI</b> Digital Photography	Open	AVI1OI or AVI2OI is recommended	This course aims to develop the student's digital camera skills through design, production and manipulation of their personal photographic images. It is designed for the student with no previous visual arts experience.
12	<b>ADA4MI</b> Dramatic Arts	University/ College	ADA3MI	This course requires students to experiment with forms and conventions in dramatic literature and to create/adopt and present dramatic works.
12	<b>AMI4MI</b> Instrumental Music - Band	University/ College	AMI3MI	This course requires students to create and perform dramatic presentations throughout the semester in a variety of theatre styles, and for a varying number of audience members including their peers, school and community. Students will research dramatic forms, conventions, themes, and theories of acting and directing from different historical periods and different theatre styles from around the globe. In productions throughout the semester students will take on key on stage or off-stage roles as they experiment with a variety of forms of theatre including site-specific work, and social issue-driven work. Throughout this course students are encouraged to attend multiple off-campus field trips and respond with formal written reviews. This course culminates with an in-class exam.

## The Arts . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
12	<b>AMV4MI</b> Vocal Choral Music	University/ College	AMV3MI or AMI3MI	Vocal and choral technique continues to be refined, with increased performer independence as a goal. Each student arranges an SATB piece for the class. Advanced listening/analysis skills, focusing on choral forms and multicultural traditions, are developed. A “real-world” independent study is explored.
12	<b>ASM4MI</b> Media Arts (Yearbook)	University/ College	ASM3MI	This course emphasizes continued refinement of print media and imaging skills through the production of the thematic body of work that is Southwood’s yearbook. Students will develop the skills necessary to interpret a variety of print and internet-based media products. They will learn, apply and model traditional and emerging technologies, tools, and techniques such as layout and design, photography, industry-standard digital imaging/publishing software, and journalism, and examine how the resulting means of communication can shape audience perceptions of school identity, culture, and community values. Using responsible and collaborative practices when engaged in the creative process is a vital part of success in this course. Interview may be requested. Gr. 12 students are given higher levels of responsibility as editors of the yearbook.
12	<b>AVI4MI</b> Visual Arts	University/ College	AVI3MI	This comprehensive course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. This 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.

## Business Studies

Grade	Course	Type	Prerequisite	Course Details
9	<b>BBI10I</b> Introduction to Business	Open		A terrific introduction to the business world. Students will study business ownership models, management styles, human resources and production. This course lays the foundation for all future studies in business at high school including accounting, marketing, law and economics. Simulations and assignments are used to replicate real world dilemmas and decisions that businesses face. This course is also a great asset for students competing in DECA!
9	<b>BTT10I</b> Business Information and Communication Technology	Open		The technology skills developed in this course will improve your performance in every other class you take in highschool and post secondary. Students will learn Microsoft applications such as Word, Publisher, Powerpoint and Excel and Web Design; Google software such as Docs, Sheets and slides. Students will also develop their understanding of the computer work environment in areas such as hardware, software, networks and file/drive management. The social, safety, physical and environmental effects of technology are also discussed in this course. This course is very beneficial for all students.
10	<b>BBI20I</b> Introduction to Business	Open		A terrific introduction to the business world. Students will study business ownership models, management styles, human resources and production. This course lays the foundation for all future studies in business at high school including accounting, marketing, law and economics. Simulations and assignments are used to replicate real world dilemmas and decisions that businesses face. This course is also a great asset for students competing in DECA! <b>For students who did not take BBI 10I in grade 9.</b>

**Business . . . (con't)**

Grade	Course	Type	Prerequisite	Course Details
10	<b>BTT2OI</b> Business Information and Communication Technology	Open		The technology skills developed in this course will improve your performance in every other class you take in high school and post secondary. Students will learn Microsoft applications such as Word, Publisher, Powerpoint and Excel and Web Design; Google software such as Docs, Sheets and slides. Students will also develop their understanding of the computer work environment in areas such as hardware, software, networks and file/drive management. The social, safety, physical and environmental effects of technology are also discussed in this course. This course is very beneficial for all students. <b>For students who did not take BTT 1OI in grade 9.</b>
11	<b>BAF3MI</b> Financial Accounting Fundamentals	University/ College		Understanding how to interpret and analyze financial information is important for anyone interested in owning their own business or seeking employment in numerous business related careers. An accounting background will also aid individuals in making wise and prudent personal financial decisions. This course introduces students to the fundamental principles and procedures of accounting. Students will acquire an understanding of accounting for a service and a merchandising business, financial analysis, ethics and current issues in accounting and use accounting software. BAF3MI is a prerequisite for grade 12 accounting – BAT4MI
11	<b>BMI3CI</b> Marketing: Goods, Services, Events	College		This course introduces students to many marketing concepts that will help them in the personal and professional lives. Students will study demographics and target markets, examine the design of new products, pricing strategies, market research, and marketing ethics, and in the end put together a marketing plan to demonstrate their knowledge and skills. This is a great foundation course for anyone thinking about pursuing a career in business. <b>This course is also a great asset for students competing in DECA!</b>
11	<b>BTA3OI</b> Information & Communication Technology: The Digital Environment	Open		This course picks up where BTT 1OI and 2OI leave off. Students will develop advanced Microsoft application skills as we delve deeper into Word, Excel and Publisher. We will also explore more Google applications such as forms, and work to better utilize Google Drive tools and features. Students will also examine new software such as Microsoft Access. The course will finish with website design and the students creating an e-business. Great for their professional portfolio!
11	<b>CLU3MI</b> Understanding Canadian Law	University/ College		Gain a better understanding of your rights and the Canadian justice system! This introductory law course examines the evolution of law and human rights and investigates the Canadian criminal and civil law systems. The investigation of the Canadian legal systems includes visiting an Ontario court house and hearing from a variety of guest speakers from areas such as policing and correctional services. A beneficial course for any student.
12	<b>BAT4MI</b> Financial Accounting Principles	University/ College	BAF 3MI	This course introduces students to advanced accounting principles that will prepare them for post secondary studies in business. Students will learn about financial statements for various forms of business ownership and how those statements are interpreted to make better business decisions. The course further develops accounting methods for assets and liabilities and introduces accounting for partnerships, corporations, and sources of financing.
12	<b>CIA4UI</b> Analysing Current Economic Issues	University		Economics is the study of scarcity and the difficult choices that businesses, governments and individuals must make because of it. Economics studies the interaction and interdependence of all elements of society as they pursue their own goals. The course is a great foundation for post-secondary business studies as all first year business programs include an economics course.

## Business . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
12	<b>BOH4MI</b> Business Leadership: Management Fundamentals	University/ College		This course explores the changing nature and role of management in a business environment. In a technology driven world, where workplaces are more diverse than ever, what skills are necessary to lead employees and manage a successful business? Student will analyze the role of a leader in business, with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation and planning. Effective business communication skills, ethics and social responsibility will also be examined.
12	<b>CLN4UI</b> Canadian and International Law	University		Study Canadian Law at the senior level! Some students enrolled in this course will have taken the grade 11 course, but it is not necessary. International law, Canadian civil and criminal law as well as human rights will all be covered in this course, with an emphasis on current cases from the media. Students taking this course will visit an Ontario Court and observe law cases in action!

## Canadian and World Studies

Grade	Course	Type	Prerequisite	Course Details
9	<b>CGC1DI</b> Issues in Canadian Geography	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. This course introduces students to Canadian geography and general geographic skills. This course is the best preparation for U-level courses. <b>Opportunities for Pre-Advance Placement (AP) will be offered in this course.</b>
9	<b>CGC1PI</b> Issues in Canadian Geography	Applied		This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore a range of issues, including food and water supplies, competing land uses, and interactions with the natural environment, developing their awareness that issues that affect their lives are interconnected with issues in other parts of the world. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate choices related to sustainable living in Canada. This course introduces students to Canadian geography and general geographic skills.
10	<b>CHC2DI</b> Canadian History since World War I	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. <b>Opportunities for Pre Advance Placement (AP) will be offered in this course.</b>

Canadian and World Studies . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
10	<b>CHC2PI</b> Canadian History since World War I	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.
10	<b>CHV2OH</b> Civics	Open		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. This is 0.5 credit course.
10	<b>CGL23I</b> Sustainable Living	Open *is not included as a Group 1*	CGC1DI or CGC1PI	Explore the impact of our lifestyle on the sustainability of the earth's resources and degradation of the environment. This course will encourage the development of the interpersonal, decision-making and practical skills necessary to make informed decisions concerning your daily activities and their impact on the environment. This course is recommended for students entering the Specialist High Skills Major Program - Environment <b>Opportunities for Pre Advance Placement (AP) will be offered in this course.</b>
11	<b>CGF3MI</b> Forces of Nature: Physical Processes and Disasters	University/ College	CGC1DI or CGC1PI	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.
11	<b>CGG3OI</b> Travel and Tourism	Open	CGC1DI 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. 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.

Canadian and World Studies . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
11	<b>CHG33I</b> Genocide and Crimes Against Humanity	Open		In this university/college level course we will investigate crimes against humanity in the twentieth and twenty-first centuries, including the Armenian Genocide, the Holocaust, the killing fields of Cambodia, the Rwandan genocide and crimes against humanity in Darfur. Students will investigate the terms genocide, crimes against humanity, and war crimes, and explore them through the lens of historical analysis. Students will examine identify formation and how “in groups” and “out groups” are created, including analyzing how bias, stereotypes, prejudice, and discrimination impact on various groups. Students will use critical-thinking skills to evaluate the world’s response, or lack thereof, to mass killings and also discuss the ways which active citizens may empower themselves to stop future genocides.
11	<b>CHW3MI</b> World History: to the end of the Fifteenth Century	University/ College	CHC2DI or CHC2PI	This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.
11	<b>CLU3MI</b> Understanding Canadian Law	University/ College	CHC2DI or CHC2PI	Learn all about the law and your rights! This is a foundation course which examines the evolution of law, human rights, criminal and civil law. This course will discuss and analyze current legal cases. Students taking this course will visit Ontario Court and observe law cases in action!
11	<b>SVN3MI</b> Environmental Science	University/ College <i>*is not included as a Group 1*</i>	SNC2PI or SNC2DI	This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.
12	<b>CGR4EI</b> Living in a Sustainable World	Workplace	CGC1DI or CGC1PI	This course examines the impact of human activity on the natural environment. Students will explore the use of natural spaces and resources and the effects of planning decisions and consumer choices on natural systems. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate practical solutions to environmental issues, enabling them to make more sustainable decisions at home, in the workplace, and in the local community.
12	<b>CGR4MI</b> Environment & Resource Management	University/ College	Any senior course in Canadian and World Studies, English, or the Social Sciences	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, field trips, discussion, literature, and a large mandatory outdoor component, 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. <b>Fee of \$30.00 to cover outdoor education trips, to “rare”</b>

Canadian and World Studies . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
12	<b>CGW4UI</b> Canadian and World Issues		Any university or university/college course in Canadian and World Studies, English, or the Social Sciences	This course looks at the global challenge of creating a more sustainable and equitable world. Students will explore a range of issues involving environmental, economic, social, and geopolitical interrelationships, and will examine governmental policies related to these issues. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate these complex issues, including their impact on natural and human communities around the world.
12	<b>CHY4UI</b> The West and the World	University	Any university or, university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities	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 ideas and assess societal progress or decline in world history.
12	<b>SES4UI</b> Earth & Space Science	University *is not included as a Group 1*	SNC2DI	This course focuses on the basic concepts and theories of Earth and space science, and their relevance to everyday life. Students will first study the origin and evolution of the universe, and then explore the materials and the internal and surficial processes of the Earth as they study the planet's history. The course draws on biology, chemistry, mathematics, and physics in its consideration of geological processes that can be observed directly or inferred from geological evidence. <b><i>This is a dual credit course.</i></b> Students earning 75% and above may earn a university science credit that is recognized by several universities. See your guidance counsellor or Mr. Bracey for details
12	<b>CIA4UI</b> Analyzing Current Economic Issues	University	University or University/College prep. course in Canadian and World Studies, English or Social Sciences	Economics is the study of scarcity and the difficult choices that must be made. Economics studies the interaction and interdependence of all elements of society as they seek to make efficient decisions. This course is a great foundation for post-secondary business studies as all first year business programs include an economics course.
12	<b>CLN4UI</b>	University	University or University/College prep. course in Canadian and World Studies, English or Social Sciences	Study Canadian Law at a senior level! Some students enrolled in this course will have taken the grade 11 course, but it is not necessary. All key aspects of law will be covered with an emphasis on current cases from the media. Students taking this course will visit Ontario Court and observe law cases in action!

## Classical Studies and International Languages

Grade	Course	Type	Prerequisite	Course Details
Level 2	<b>LWSBDI</b> Spanish - (beginner)	Academic		This course is for students with no previous background in Spanish. It is an introductory program for all. Students will participate in a variety of activities that will develop language skills and an appreciation for the Spanish culture. Workbook fee approximately \$20.00
Level 3	<b>LWSCUI</b> Spanish - (intermediate)	Academic	LWSBDI	This course provides opportunities to further develop knowledge and appreciation for the Spanish culture. Students will use increasingly sophisticated language dealing with a variety of reading, writing and oral activities. (Workbook fee \$20.00 - already purchased in LWSBDI).
Level 4	<b>LWSDUI</b> Spanish	Academic	LWSCUI	This course prepares students for study at university. Students will enhance their ability to use the Spanish language with clarity and precision in written assignments and oral presentations through a study of a variety of genres. (Workbook fee \$20.00 - already purchased in LWSCUI)

## Cooperative Education

Grade	Course	Type	Prerequisite	Course Details
11	<b>DCO3OC</b> *choose this course for first time coop.	Open	Application and review with Co-op teacher	This course consists of a learning experience connected to a community and a cooperative education curriculum focused on developing skills, knowledge, and habits of mind that will support students in their learning, including their education and career/life planning, at school and beyond, today and in the future. Within the context of their experience connected to a community, students will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being and that will strengthen their inquiry, decision-making, and leadership skills. Students will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.
11	<b>COP3OC</b> (2 credit)	Open	Application and review with Co-op teacher	This course includes a community-connected experience and a cooperative education curriculum focused on developing skills, knowledge, and habits of mind that will support students in their learning at school and beyond, while promoting health, safety, and well-being. Students will create and implement a learning plan that meets their particular interests and needs, reflect on learning, and make connections between their experience in the community and the application of knowledge and skills acquired in a related course. Alternatively, students may choose to strengthen their inquiry, decision-making, and leadership skills in a field related or unrelated to their in-school courses through a modified community-connected experience and additional in-school learning components.
12	<b>COP4OC</b> (2 credit)	Open	Application and review with Co-op teacher	This course includes a community-connected experience and a cooperative education curriculum that incorporates relevant expectations from the student's related in-school course. Students will develop skills, knowledge, and habits of mind that will support them in their related field of study and career/life planning, while promoting health, safety, and well-being. Students will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and making connections between their experience in the community and other aspects of their lives and formal education.

# English

Grade	Course	Type	Prerequisite	Course Details
9	<b>ENG1DI</b> 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	<b>ENG1PI</b> 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.
10	<b>ENG2DI</b> English	Academic	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 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.
10	<b>ENG2PI</b> 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.
11	<b>EMS3OI</b> Media Studies	Open	ENG2DI or ENG2PI	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 units on music, advertising, film and video games, students will analyse the forms and messages of a variety of media works and audience responses to them, create their own media works, develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.
11	<b>ENG3CI</b> English	College	ENG2PI	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.

## English . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
11	<b>ENG3EI</b> English	Workplace	ENG2PI	This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.
11	<b>ENG3UI</b> English	University	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.
12	<b>ENG4CI</b> English	College	ENG3CI	This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace.
12	<b>ENG4EI</b> English	Workplace	ENG3EI or ENG3CI	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. May not qualify for college admittance.
12	<b>ENG4UI</b> English	University	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.
12	<b>ETS4UI</b> Studies in Literature	University	ENG3UI	This course is for students with a special interest in literature and literary criticism. The course is a survey of literary masterpieces from the Middle Ages to the end of the 20 <sup>th</sup> Century. Students will analyse a range of forms and stylistic elements of literary texts and respond personally, critically, and creatively to them. They will also assess critical interpretations, write analytical essays, and complete an independent study project.

## English . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
12	<b>EWC4UI</b> The Writer's Craft	University	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.

## French as a Second Language

Grade	Course	Type	Prerequisite	Course Details
9	<b>FSF1DI</b> Core French	Academic		This course prepares students to continue in French at the academic level through a variety of thematic reading, writing, listening and speaking activities. Replacement workbook fee if lost – approx. \$25.00 <b>Opportunities for Pre-Advance Placement (AP) will be offered in this course.</b>
9	<b>FSF1PI</b> Core French	Applied		This course is intended for students who are not planning to pursue studies in French. Students will enhance their ability by reading, writing, listening and speaking activities. Replacement workbook fee if lost - approx. \$20.00
10	<b>FSF2DI</b> Core French	Academic	FSF1DI	This course enables students to further develop their written and oral communication skills and to deepen their appreciation of francophone culture and the importance of languages through a study of a variety of genres. Same workbook from 1DI <b>Opportunities for Pre Advance Placement (AP) will be offered in this course.</b>
11	<b>FSF3UI</b> Core French	University	FSF2DI	This course draws on a variety of themes to promote extensive development of reading, writing and oral communication skills. Students will gain a richer understanding of Francophone cultures in Canada and around the world. Workbook approx. fee \$20.00 (purchased by student)
12	<b>FSF4UI</b> Core French	University	FSF3UI	Students will consolidate their oral skills as they discuss francophone literature and culture. They will read a variety of genres and will produce a series of written assignments including a formal essay. Workbook approx. fee \$20.00 (purchased by student)

## Guidance and Career Education

Grade	Course	Type	Prerequisite	Course Details
10	<b>GLC2OH</b> Career Studies	Open [Compulsory]		Who are you? What do you want to be? Where are you going? What decisions do you need to be making? Find all this information and more in Career Studies. This is a 0.5 credit course.
11	<b>GPP3OY</b> Peer Helping	Open		Students provide leadership and academic assistance to peers in a classroom setting. Great for those thinking about teaching as a career.

## Health and Physical Education

Grade	Course	Type	Prerequisite	Course Details
9	<b>PPL10X</b> Healthy Active Living (Female)	Open		This course emphasizes students' daily participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will investigate issues around healthy eating, personal safety and injury prevention, substance use, addictions and related behaviours, and human development and sexual health. They will also get trained in CPR.
9	<b>PPL10Y</b> Healthy Active Living (Male)	Open		This course emphasizes students' daily participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will investigate issues around healthy eating, personal safety and injury prevention, substance use, addictions and related behaviours, and human development and sexual health. They will also get trained in CPR.
10	<b>PAF20X</b> Live-Fit (Female)	Open		This course is an introduction to personal fitness. Most activities are fitness based. Students will investigate issues around healthy eating, personal safety and injury prevention, substance use, addictions and related behaviours, and human development and sexual health.
10	<b>PAF20Y</b> Power-Fit (Male)	Open		This course is an introduction to personal fitness. Most activities are fitness based. Example: cross training, weight and resistance training, self defense, plyometrics, aerobic and anaerobic training etc. Students will investigate issues around healthy eating, and supplements.
10	<b>PPL20X</b> Healthy Active Living (Female)	Open		This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will investigate issues around healthy eating, personal safety and injury prevention, substance use, addictions and related behaviours, and human development and sexual health.
10	<b>PPL20Y</b> Healthy Active Living (Male)	Open		This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will investigate issues around healthy eating, personal safety and injury prevention, substance use, addictions and related behaviours, and human development and sexual health.
11	<b>PAF30X</b> Live-fit (Female)	Open		This course focuses on advanced personal fitness. Most activities are fitness based, and may include aerobics, step, boxercise, yoga, pilates, self-defense and weight training. Students will investigate issues around healthy eating, personal safety and injury prevention, substance use, addictions and related behaviours, and human development and sexual health.
11	<b>PAF30Y</b> Cross training (Male)	Open		This course focuses on advanced personal fitness. Most activities are fitness based, and may include cross training, weight and resistance training, plyometrics, aerobic and anaerobic training. Students will investigate issues around healthy eating, and supplements.
11	<b>PPL30X</b> Healthy Active Living (Female)	Open		This course emphasizes regular participation in a variety of enjoyable activities that promote lifelong healthy active living. Students will investigate issues around healthy eating, personal safety and injury prevention, substance use, addictions and related behaviours, and human development and sexual health.

## Health and Physical Education . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
11	<b>PAF30Y</b> Cross training (Male)	Open		This course focuses on advanced personal fitness. Most activities are fitness based, and may include cross training, weight and resistance training, plyometrics, aerobic and anaerobic training. Students will investigate issues around <u>healthy eating, and supplements.</u>
11	<b>PPL30X</b> Healthy Active Living (Female)	Open		This course emphasizes regular participation in a variety of enjoyable activities that promote lifelong healthy active living. Students will investigate issues around healthy eating, personal safety and injury prevention, substance use, addictions and related behaviours, and human development and sexual health.
11	<b>PPL30Y</b> Healthy Active Living (Males)	Open		This course emphasizes regular participation in a variety of enjoyable activities that promote lifelong healthy active living. Students will investigate issues around healthy eating, personal safety and injury prevention, substance use, addictions and related behaviours, and human development and sexual health.
11	<b>PPZ3CI</b> Health for Life (Co-ed)	Open		This is a classroom course with no activity component. The course will focus on determinants of health, wellness, and healthy communities. This course is designed to equip students with the knowledge and skills they need for most college programs that involve health.
12	<b>PAF40I</b> Cross Training (Co-ed)	Open		This course focuses on advanced personal fitness. Most activities are fitness based, and may include cross training, weight and resistance training, plyometrics, aerobic and anaerobic training. Students will investigate issues around <u>healthy eating, and supplements.</u>
12	<b>PLF4MI</b> Recreation and Healthy Active Living Leadership	University or College	Any health and physical education course	This course enables students to explore the benefits of lifelong participation in active recreation and healthy leisure and to develop the leadership and coordinating skills needed to plan, organize, and safely implement recreational events and other activities related to healthy, active living. Students will also learn how to promote the benefits of healthy, active living to others through mentoring and assisting them in making informed decisions that enhance their well-being. The course will prepare students for university programs in physical education and health and kinesiology and for college and university programs in recreation and leisure management, fitness and health promotion, and fitness leadership.
12	<b>PPL40I</b> Healthy Active Living Off Campus (Co-ed)	Open		This course emphasizes the regular participation in a variety of enjoyable activities that promote lifelong healthy active living. Students will have the option to pick the activities they want. Activities are off campus and at Southwood. If you choose activities off campus, there may be a fee and you will need to find your own way there. There will always be a free Southwood option.
12	<b>PSK4UI</b> Introductory Kinesiology	University	Any Grade 11 university, or university/college prep course in science, or any Grade 11 or 12 course in Health and Physical Ed.	This course focuses on the study of human movement and of systems, factors and principals 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.

## Interdisciplinary Studies

Grade	Course	Type	Prerequisite	Course Details
11	<b>IDC3OX</b> Student Leadership I	Open		This course will introduce students to basic leadership theories as they pursue leadership roles in the school and community. Students will study and apply theory while developing skills in the areas of planning/goal setting, problem solving, conflict resolution, group dynamics, teamwork, self-awareness and communication. Students will develop the skills and knowledge to support them in pursuing a variety of leadership roles by leading charity events and fundraisers, dances, grade 8 orientation, lunch time activities, school photo days and much more.
12	<b>IDC4OX</b> Student Leadership II	Open	IDC3OX	This course picks up where IDC3OX leaves off, studying advanced theories of leadership with a focus on distributive leadership, delegation skills, level 5 leadership, and mentoring. Students will have the opportunity to explore the concepts of Emotional and Social Intelligence as it pertains to leadership, to shadow leaders in our community, and to teach leadership concepts to the class. <b>This course is open to students in their second or third year of Student Council</b>
12	<b>IDC4UX</b> Leadership	University	Any university, or university/college prep course	Leadership rests at the center of all successful teamwork; it brings about meaningful change and growth; and sits at the core of a healthy and productive school community. To act as a leader one needs to develop a healthy sense of self and a capacity for critical thinking and reflective practice. This course is founded on the philosophy that we are all leaders and that we all possess the potential to be great leaders. With this in mind, the purpose of this course is two-fold. First, it is to explore the concepts and theories of leadership and second it is to put into practice effective leadership skills while planning school events and activities.

## Mathematics

Grade	Course	Type	Prerequisite	Course Details
9	<b>MPM1DI</b> Principals of Mathematics	Academic		This course enables students to develop an understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a linear relation. They will also explore relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems. Appropriate for students earning Level 3 and 4 in Gr. 8 Math.
9	<b>MFM1PI</b> Foundations of Mathematics	Applied		This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. Appropriate for students earning Level 1 and 2 in Gr. 8 Math.

## Math . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
10	<b>MPM2DI</b> Principles of Mathematics	Academic	MPM1DI	This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
10	<b>MFM2PI</b> Foundations of Mathematics	Applied	MPM1DI or MFM1PI	This course enables students to consolidate their understanding of linear relations 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 relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking .
11	<b>MBF3CI</b> Foundations for College Math	College	MFM2PI or MFM2DI	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 quadric relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analyzing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
11	<b>MCF3MI</b> Functions & Applications	University/ College	MPM2DI or MFM2PI	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: MPM 2DI or very successful completion of MFM 2PI.
11	<b>MCR3UI</b> Functions	University	MPM2DI	This course introduces the mathematical concept of the function by extending students' experiences with linear and quadric relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
11	<b>MEL3EI</b> Mathematics for Work and Everyday Life	Workplace	MAT1LI or MFM1PI or MFM1DI	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.

## Math . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
12	<b>MAP4CI</b> Foundations for College Math	College	MBF3CI or MCF3MI	This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyze data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.
12	<b>MCT4CI</b> Mathematics for College Technology	College	MCF3MI or MCR3UI	This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs.
12	<b>MDM4UI</b> Mathematics of Data Management	University	MCR3UI is recommended.  MCF3MI should consult with teacher.	This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analyzing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest. Prerequisite: MCR 3UI or very successful completion of MCF 3MI.
12	<b>MEL4EI</b> Mathematics for Work and Everyday Life	Workplace	MEL3EI	This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs, create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
12	<b>MHF4UI</b> Advanced Functions	University	MCR3UI or MCT4CI	This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining 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 taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs. Prerequisite: MCR 3UI or very successful completion of MCT 4CI.

## Math . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
12	<b>MCV4UI</b> Calculus and Vectors	University	The new Advanced Functions course (MHF4U) must be taken prior to or concurrently with Calculus and Vectors (MCV 4UI)	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, sinusoidal, exponential, rational, and radical 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 choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, of physics course.

## Computer Studies

Grade	Course	Type	Prerequisite	Course Details
11	<b>ICS3UI</b> Computer and Information Science	University/ College	MPM2DI recommended	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 subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields.
12	<b>ICS4UI</b> Computer and Information Science	University/ College	ICS3UI	This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, 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: ICS 3UI.

## Native Studies

Grade	Course	Type	Prerequisite	Course Details
11	<b>NDA3MI</b> Current Aboriginal Issues in Canada	University/ College	Aboriginal Peoples in Canada, Grade 10, Open or Canadian History in the Twentieth Century, Grade 10, Academic or Applied	This course focuses on existing and emerging issues of importance to Aboriginal peoples in Canada. Students will investigate issues related to identity, relationships among Aboriginal peoples and between Aboriginal peoples and other Canadians, sovereignty principles as presented by Aboriginal peoples, and the contemporary challenges posed by these issues. Students will also examine such topics as language preservation, the responsibilities of Aboriginal women and men, and the need for dialogue between Aboriginal and non-Aboriginal peoples.
12	<b>NDW4MI</b> Issues of Indigenous People in a Global Context	University/ College	Any Grade 11 university, university/college or college prep course	This course provides students with an overview of the issues and challenges that confront indigenous peoples worldwide. Students will develop an understanding of the concerns and aspirations of the world's indigenous population, plan and conduct research on global issues that have an impact on indigenous peoples, and use information technology to consult materials related to the views of indigenous peoples throughout the world.

# Science

Grade	Course	Type	Prerequisite	Course Details
9	<b>SNC1DI</b> Science	Academic		<p>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.</p> <p><b>Opportunities for Pre-Advance Placement (AP) will be offered in this course.</b></p>
9	<b>SNC1PI</b> Science	Applied		<p>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.</p>
10	<b>SNC2DI</b> Science	Academic	SNC1DI or SNC1PI	<p>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.</p> <p><b>Opportunities for Pre-Advance Placement (AP) will be offered in this course.</b></p>
10	<b>SNC2PI</b> Science	Applied	SNC1PI or SNC1DI	<p>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.</p>
11	<b>SBI3CI</b> Biology	College	SNC2DI or SNC2PI	<p>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.</p>
11	<b>SBI3UI</b> Biology	University	SNC2DI	<p>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.</p>

Science . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
11	<b>SCH3UI</b> Chemistry	University	SNC2DI	This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.
11	<b>SPH3UI</b> Physics	University	SNC2DI	This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; end 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 and technology, and consider the impact of technological applications of physics on society and the environment. It is <b>recommended</b> that students have <b>MPM2DI</b> prior to taking this course.
11	<b>SVN3MI</b> Environmental Science	University/ College **is not included as a Group 1**	SNC2PI or SNC2DI	This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.
12	<b>SBI4UI</b> Biology	University	SBI3UI	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.
12	<b>SCH4CI</b> Chemistry	College	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. Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment.
12	<b>SCH4UI</b> Chemistry	University	SCH3UI	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.

## Science . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
12	<b>SES4UI</b> Earth & Space Science	University **is not included as a Group 1**	SNC2DI	This course focuses on the basic concepts and theories of Earth and space science, and their relevance to everyday life. Students will first study the origin and evolution of the universe, and then explore the materials and the internal and surficial processes of the Earth as they study the planet's history. The course draws on biology, chemistry, mathematics, and physics in its consideration of geological processes that can be observed directly or inferred from geological evidence. <b><i>This is a dual credit course.</i></b> Students earning 75% and above may earn a university science credit that is recognized by several universities. See your guidance counsellor or Mr. Bracey for details.
12	<b>SPH4CI</b> Physics	College	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. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.
12	<b>SPH4UI</b>	University	SPH3UI	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.

## Social Sciences and Humanities

### Family Studies:

Grade	Course	Type	Prerequisite	Course Details
9	<b>HFN1OI</b> Food and Nutrition	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 explore the environmental impact of a variety of food choices at the local and global level. This course provides students with many opportunities to develop food-preparation skills. Students will participate in food challenges to gain more experience and confidence in the kitchen. There is a food lab enhancement fee of \$20.00
10	<b>HFN2OI</b> Food and Nutrition	Open	<b><i>Not open to students who have taken HFN1OI</i></b>	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 explore the environmental impact of a variety of food choices at the local and global level. This course provides students with many opportunities to develop food-preparation skills. Students will participate in food challenges to gain more experience and confidence in the kitchen. There is a food lab enhancement fee of \$20.00. <b>Not open to students who have taken HFN1OI</b>

**Family Studies:**

Grade	Course	Type	Prerequisite	Course Details
11	<b>HNC3CI</b> Understanding Fashion	Open		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 fibres, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion. Students will plan and organize a <b>Fashion Show</b> at the school. There is an enhancement fee of \$20.00 to cover expenses for advanced sewing projects.
11	<b>HPC3OI</b> Raising Healthy Children	Open		What kind of parent do you want to be? Find out more by using the Baby Simulators. Learn about pregnancy, prenatal development, labour and delivery. Study infant growth and development. Develop attitudes and skills for effective parenting. Learn ways to communicate and discipline younger children. This is an excellent course for students interested in working with children someday.
11	<b>HPW3CI</b> Working with Infants and Young Children	College		This course prepares students for occupations involving children from birth to six years of age. Students will study theories about child behaviour and development, and will have opportunities for research and observation and for practical experiences with young children. Students will become familiar with occupational opportunities and requirements related to working with infants and young children. Students will volunteer at the <b>Early Years Centre</b> as well as plan and organize a <b>Toddler Day</b> at the school.
11	<b>TFJ3CI</b> Hospitality	College	HFN1OI or HFN2OI strongly recommended	Student will acquire fundamental skills in food handling and preparation, health and safety standards, the impact of the Tourism industry, and the tools of the Hospitality trade. Students will participate in opportunities to prepare food for special events and explore careers in the Hospitality and Tourism industries. This course satisfies a graduation requirement (Group 3) and is a great course for a would-be-chef or an individual looking to expand their culinary skills. It is also an excellent course for Co-op culinary experience. There is a lab fee of \$20.00 to help cover expenses for our weekly cooking labs. <b>HFN1OI and HFN2OI strongly recommended.</b>
12	<b>HHS4UI</b> Families in Canada	University	Any university, college, or university/college preparation course in Social Sciences and Humanities, 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. 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 investigation skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. Hot Topics will be discussed during Family Forum Friday's. Topics include; alcohol and drug abuse, same-sex marriage, depression, arranged marriage and reproductive technology.

## Social Sciences and Humanities . . . (con't)

### Family Studies . . . (con't)

Grade	Course	Type	Prerequisite	Course Details
12	<b>HNB4MI</b> The World of Fashion	University/ College	Any university, college, or university/college preparation course in Social Sciences and Humanities, 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 using various tools, techniques and technologies while developing their practical skills. Students will learn about various factors that affect the global fashion industry, the needs of specialized markets, and the impact of fibre and fabric production and care. In addition, they will learn about social and historical influences on fashion. Students will apply research skills when investigating aspects of the fashion world. Students will plan and organize a fashion show at school. Some previous sewing experience is expected. There is a lab fee of \$20.00 to cover expenses for advanced sewing projects.

### History:

Grade	Course	Type	Prerequisite	Course Details
11	<b>HSP3CI</b> Anthropology Psychology, and Sociology	College		This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. Students will be given opportunities to apply theories from a variety of perspectives, to conduct social science and research, and to become familiar with current issues within the three disciplines.
11	<b>HSP3UI</b> Anthropology, Psychology, and Sociology	University	ENG 2DI or CHC2DI	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.
12	<b>HSB4UI</b> Challenge and Change in Society	University	Any university or university/college prep course in Canadian & World Studies, English or Social Science	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 analyze how and why cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyze 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.
12	<b>HZT4UI</b> Philosophy: Questions & Theories	University	Any university, or university/college prep course in Social Sciences and Humanities, English, or Canadian and World Studies	This course enables students to acquire an understanding of the nature of philosophy and philosophical reasoning skills and to develop and apply their knowledge and skills while exploring specialized branches of philosophy (the course will cover at least three of the following branches: metaphysics, ethics, epistemology, philosophy of science, social and political philosophy and aesthetics). Students will develop critical thinking and philosophical reasoning skills as they formulate and evaluate arguments related to a variety of philosophical questions and theories. They will also develop research and inquiry skills related to the study and practice of philosophy.

# ENVIRONMENTAL STUDIES MAGNET PROGRAM

## Program Purpose and Vision

This program is open to all students of the Waterloo Region District School Board.

In accordance with the Board's vision; engaged learners, engaged communities, the aim of this program is to provide an opportunity for all students regardless of academic ability to pursue an enhanced environmental education.

Furthermore, in accordance with the stated goals of the W.R.D.S.B. this program aims to pursue partnerships and links within the community to facilitate students being participating community members while developing their potential and pursuing their aspirations.

	Course Outline	
Grade 10	Sustainable Living *	CGL23I
Grade 12	Environmental Science & Resource Management ** or Living in a Sustainable World	CGR4MI or CGR4EI
<b>5 additional credits</b>		
Grade 11	Biology Environmental Science **	SBI3CI/ 3UI SVN3MI
	Physical Geography Travel & Tourism	CGF3MI CGG3OI
Grade 12	Biology or Chemistry Earth & Space Science World Issues	SBI4UI or SCH4CI SES4UI CGW4UI
2 Credits Grade 11 & 12	Co-op (Environment Related Field)	GWL3OC
Community Service	20 hours Community service **	Approved Environmental Related Activities

\* Recommended \*\* Mandatory

## Community Connections

A core area of the program will be the emphasis on outdoor, hands-on interactive environmental education through an established and ongoing partnership with rare ([www.raresites.org](http://www.raresites.org)). Educational partnerships will be pursued with various universities and colleges.

A focus of this program will also be the involvement of university/college professors and experts from environment related industry who through interactions with program participants may help shape their post secondary education choices and/or career aspirations. Program participants will also develop leadership and interpersonal skills through the new "Chain of Learning" initiative.

Finally, this program would explore building partnerships with local environmental related businesses and industries which may provide access to professional expertise to enhance learning and potential co-op placements.

## Specialist High Skills Major Program - Transportation

The Specialist High Skills Major (SHSM) program, which is part of the Ministry of Education's Student Success initiative in the province of Ontario, has been introduced to offer province-wide specialized programs in specific ministry-identified sectors to support the success of all students. The SHSM Program has a number of required components, designed to give students a "leg-up" to pursue post-secondary opportunities in each of the identified sectors, valuing all four post-secondary destinations (apprenticeship, college, university and work).

**The Environment Specialist High Skills Major is a program designed for students who have a passion for the environment and are looking for challenges and experiences applying their knowledge outside of the traditional classroom. Students will learn sector specific skills and gain valuable hands-on experiences in environment based education. This program is ideal for any student interested in an intensive environment based education and who is looking to pursue a post-secondary education or occupation in an environment related field.**

### SHSM PROGRAM COMPONENTS

**Bundled Credits:** Each SHSM program offers students a bundle of 9 - 11 credits, including:

- 4 "major" credits in the identified sector in Grade 11 and Grade 12
- 2 or 3 supporting credits in English, math or science that will be delivered in the context of that sector

**Sector-Recognized Certifications:** Related to the major and selected from a list, both generic and specific to support the sector (i.e. WHMIS, First Aid, CPR, GPS)

**Experiential Learning Opportunities:**

- Job-shadowing, job-twinning, work experience
- Minimum of 2 Cooperative Education credits linked to the major*
- Field trips, other workplace experiences for students to explore careers related to that sector

**Reach Ahead Experiences:** In the field and sectors considered as a post-secondary destination, ranging from a few hours to full courses (dual credit programs) The full description of the SHSM- Environment can be viewed at:

<http://www.edu.gov.on.ca/eng/studentssuccess/pathways/shsm/environment.pdf>

## Special Education

Grade	Course	Type	Prerequisite	Course Details
9	<b>GLE1OI</b> Learning Strategies 1: Skills for Success	Open	Principal Recommendation Required	This course is designed to teach specific learning strategies, to help students to assess their own learning styles, and to accommodate individual learning needs. This course is for students with IEP's or Special Education department approval.
10	<b>GLE2OI</b> Learning Strategies 2: Skills for Success	Open	Principal Recommendation Required	Building on the GLE1OI, this course is designed to teach specific learning strategies with an emphasis on literacy and to accommodate individual learning needs. This course is for students with IEP's or Special Education department approval.
11	<b>GLE3OI</b> Advanced Learning Strategies 1: Skills for Success	Open	Principal Recommendation Required	This course is designed to teach specific strategies with an emphasis on post-secondary transitions, and to accommodate individual learning needs. This course is for students with IEP's or Special Education department approval.
12	<b>GLE4OI</b> Advanced Learning Strategies 2: Skills for Success	Open	Principal Recommendation Required	Building on the GLE3OI, this course is designed to teach specific learning strategies with an emphasis on post-secondary transitions, and to accommodate individual learning needs. This course is for students with IEP's or Special Education department approval.

## TECHNOLOGICAL EDUCATION

### Ontario Youth Apprenticeship Program (OYAP)

OYAP is a **specialized cooperative education program** that provides students with an opportunity to experience a skilled trade, at the apprenticeship level while completing their Ontario Secondary School Diploma requirements.

OYAP programs may begin in either grade 11 or 12.

Students participating in cooperative education in any apprenticeship trade area will be considered to be in the OYAP program.

#### OYAP programs include (but are not limited to):

- \* Automotive Service Technician
  - Auto Body Technician
  - Truck and Coach Technician
  - Heavy Equipment Technician
  - Machinist, Millwright, Welder
- Carpenter, Electrician
- Cook, Baker forms.
- Early Childhood Educator, E.A. Assistant

#### OYAP admission requirements

- \* Have successfully completed grade 9 and 10(16 credits)
- \* Be 16 years of age or older
- \* Have an acceptable attendance record
- \* Have an acceptable academic record
- \* Must have completed or be completing an in-school course related to the chosen OTAP trade.
- \* Be responsible for their own transportation
- \* Complete Cooperative Education and OYAP application

Grade	Course	Type	Prerequisite	Course Details
11	<b>DCO3OC</b>	Open	Application and review with Co-op teacher.	This course consists of a learning experience connected to a community and a cooperative education curriculum focused on developing skills, knowledge, and habits of mind that will support students in their learning, including their education and career/life planning, at school and beyond, today and in the future. Within the context of their experience connected to a community, students will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being and that will strengthen their inquiry, decision-making, and leadership skills. Students will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.
11	<b>COP3OC</b>	Open	Application and review with Co-op teacher.	This course includes a community-connected experience and a cooperative education curriculum focused on developing skills, knowledge, and habits of mind that will support students in their learning at school and beyond, while promoting health, safety, and well-being. Placement choices will be limited to the sector associated to the student's selected SHSM program. Students will create and implement a learning plan that meets their particular interests and needs, reflect on learning, and make connections between their experience in the community and the application of knowledge and skills acquired in a related course.
12	<b>COP4OC</b>	Open	Application and review with Co-op teacher.	This course includes a community-connected experience and a cooperative education curriculum that incorporates relevant expectations from the student's related in-school course. Students will develop skills, knowledge, and habits of mind that will support them in their related field of study and career/life planning, while promoting health, safety, and well-being. Placement choices will be limited to the sector associated to the student's selected SHSM program. Students will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and making connections between their experience in the community and other aspects of their lives and formal education.

## Specialist High Skill Major

### What is a SPECIALIST HIGH SKILLS MAJOR (SHSM)

A Specialist High Skills Major program lets students focus on a career path that matches their skills and interests.

### Who is the SHSM for?

Students who are heading for university, college, apprenticeship, or the workplace.

### How does the SHSM help?

Students have the opportunity to:

- Gain important skills on the job with actual employers, at skills training centers and at school.
- Gain a Red Seal on their graduation diploma
- List the SHSM designation on their college and/or university applications.
- Earn valuable industry certifications, including first aid and C.P.R. qualifications.

### Why pursue a SHSM in Transportation

The demand for Transportation professionals is on the rise. SHSM Transportation enables students to build a foundation of sector-focused knowledge and skills before graduating and entering apprenticeship training, college, university, or an entry-level position in the workplace. Pursuing the Specialist High Skills Major enables students to:

- customize their secondary school education to suit their interests and talents while meeting the requirements for the OSSD;
- select a bundle of **9 required** credits focused on sector-specific knowledge and skills that are:
- valued by the Transportation sector and postsecondary educational institutions;
- designed to help prepare students for a postsecondary opportunity of their choice in this sector;
- designed with the flexibility to allow students to shift between pathways (e.g., switch from a pathway leading to college to an apprenticeship pathway) or to discontinue the SHSM program should their career plans change in Grade 11 or 12.

### What are some future career paths for Transportation SHSM students?

Possible careers include:

- **Apprenticeship** - Automotive service Technician, Auto Body Technician, Marine Engine Mechanic, Truck Coach Technician, Motorcycle Technician
- **College** – Industrial Designer, Mechanical Engineering Technologist, Quality Control Inspector, Navigation Officer, Motor Transport Supervisor
- **University** – Automotive Engineer, Industrial Designer, Urban Planner
- **Entry level workplace** – Aircraft Assembler, Automobile Sales, Automotive Mechanical Installer, Tire repairer, Delivery and Courier Service Driver

## Technological Education

Grade	Course	Type	Prerequisite	Course Details
9	<b>TIJ1OI</b> Exploring Technologies	Open		This course enables students to explore and develop technological knowledge and skills. Students will design and create products and/or provide services related to technological sectors, working with a variety of tools, equipment, materials and software. Students will begin to explore secondary learning pathways possibilities leading to careers in technology related fields.
10	<b>TCJ2OI</b> Construction	Open		This course introduces students to construction through project design and building. Students will become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations using hand and power tools. Students will explore secondary and postsecondary career pathways in the construction industry.
10	<b>TDJ2OI</b> Technological Design/ Communications	Open		Introduction to engineering problem solving, model building, model testing and communication graphics and processes. Students will use tools, equipment and software, including 3D graphics and 3D printing, to design and prototype solutions to engineering and communications challenges.

**Technological Education . . . (con't)**

Grade	Course	Type	Prerequisite	Course Details
10	<b>TMJ2OI</b> Machining & Welding Processes	Open		This is a broad based manufacturing course that introduces students to precision machining, CNC machining and welding. Students will gain skills in these areas through classroom activities and completion of take home projects.
10	<b>TTJ2OI</b> Transportation Automotive Services	Open		This course introduces students to the service and maintenance of today's modern and recreation vehicles. A "hands on" course where students develop practical knowledge to demonstrate the safe and correct use of a variety of maintenance and repair.
11	<b>TCJ3CI</b> Home Renovation & Repair	College		An introduction to home repair and renovation. This course is project oriented and includes carpentry, woodworking, plumbing, electrical, dry walling and painting.
11	<b>TDJ3MI</b> Engineering and Architecture	University/ College		The focus of this course is engineering problem solving, model building and model testing using tools, equipment and software, including 3D graphics and 3D printing, to develop and test solutions to engineering challenges and architectural design, drawing and presentation.
11	<b>TFJ3CI</b> Hospitality	College	HFN1OI or HFN2OI strongly recommended	Students will acquire fundamental skills in food handling and preparation, health and safety standards, and the tools of the Hospitality trade. Students will participate in opportunities to prepare food for special events and explore careers in the Hospitality and Tourism industries. This course satisfies a graduation requirement (Group 3) and is a great course for a would-be-chef. It is also an excellent course for Co-op culinary experience. There is a lab fee of \$20.00 to cover expenses for advanced cooking labs. <b>HFN1OI or HFN2OI strongly recommended.</b>
11	<b>TGJ3MI</b> Communications	University/ College		Communications systems, design and processes in the areas of production, planning, staging, scripting and story-boarding, 3D animation, video and audio post production, web design and graphic design products and communications.
11	<b>TMJ3CI</b> Machining & Welding Processes	College		Students will further develop skills in machining, CNC, tool and die, welding, and millwrighting. This course is activity based with students learning and applying industry standard skills through highly detailed activities and projects.
11	<b>TMW3EX</b> Welding	Workplace		This course is designed to enhance the knowledge, skills and safe practices in Welding in accordance with industry standards. It covers core competencies such as Setting-up all Welding Equipment, Preparing Weld Materials, Fitting up Weld Materials, through many classroom activities and projects.
11	<b>TTJ3CI</b> Auto Mechanics	College		This course examines the infrastructure required for the operation of modern and leisure vehicles. Students will design, construct, and modify vehicles, and apply safe work practices and procedures using current technology. Emphasis on components and their operation will prepare students for career opportunities in the transportation sector.
11	<b>TTA3CX</b> Vehicle Service	College		Focus on auto service/auto mechanics/auto technician. Trade and manufacturers procedure development. Students will work on real life repair situations. This course also places emphasis on practical shop skills by including a wide range of Transportation-related repair challenges, such as small engines, off road vehicles and other forms of transportation products.
12	<b>TCJ4CI</b> Home Renovation and Repair	College	TCJ3CI	This course further develops various areas of home renovation and home repair, including carpentry, woodworking, plumbing, electrical, dry walling and painting.

**Technological Education . . . (con't)**

<b>Grade</b>	<b>Course</b>	<b>Type</b>	<b>Prerequisite</b>	<b>Course Details</b>
12	<b>TDA4MX</b> Architecture	University/ College	Any Grade 11 university or university/college course	Introduction to Architecture: This course will provide students with an overview of the role of architecture and the architect in society both today and throughout history, the role of architecture in defining culture and civilization, the impact of technology and the role of engineering in architecture, the practical skills of the architect, artistic and cultural interpretation in design and the social considerations of architectural planning and design. The course will focus entirely on historic, commercial and public architectural design.
12	<b>TDJ4MI</b> Engineering	University/ College	TDJ3MI	Engineering problem solving, model building and model testing focusing on mechanical and virtual systems and coding and using tools, equipment and software, including 3D graphics and 3D printing, to develop and test solutions to engineering challenges. An excellent course for students interested in design, engineering, and/or science at university or college.
12	<b>TFJ4EI</b> Hospitality & Tourism Cooking Emphasis	Workplace	HFN1OI/2OI or TFJ3CI strongly recommended	Students will advance their skills in food preparation and presentation, safe and secure practices, and use of equipment and tools. Students will participate in opportunities to prepare food for special events and further explore careers in the Hospitality and Tourism Industries. Students will have various opportunities for experiential learning through baking and culinary workshops. This is an excellent course for Co-op culinary experience. Students will have the opportunity to earn a Food Handlers Certificate and Smart Serve Training. There is a food lab enhancement fee of \$20.00
12	<b>TGJ4MI</b> Communications	University/ College	TGJ3MI	Communications systems, design and processes in the areas of production planning, staging, scripting and story-boarding, 3D animation, video and audio post production, web design and graphic design products and communications. An excellent course for students interested in design, animation, communication, and/or media arts at university or college.
12	<b>TMJ4CI</b> Machining Processes	College	TMJ3CI	Students will develop skills at the pre-apprentice level in conventional and CNC machining, tool and die, welding, millwrighting and plastics industry.
12	<b>TMW4EX</b> Welding	Workplace	TMW3EX	The focus on this course is on advanced welding techniques and more in depth study of Oxy-Acetylene, Arc and Mig welding. Students will further develop their skills by completing more in depth classroom activities and projects. Students can also try their hand at TIG welding.
12	<b>TTJ4CI</b> Auto Mechanics, Vehicle Service	College	TTJ3CI	Students will solve problems related to vehicles and transportation systems; examine transportation-related issues such as energy conversion, power transfer, control systems, and environmental and societal impact. An emphasis is made on employable diagnostic and repair skills to prepare students for career opportunities in the transportation sector.
12	<b>TTA4CX</b> Auto Mechanics, Basic Vehicle Service	College	TTA3CX	Focus on auto service/auto mechanics/auto technician. Trade and manufacturers procedure development. Students will work on real life repair situations. This course also places emphasis on practical shop skills by including a wide range of Transportation-related repair challenges, such as small engine, off road vehicles and other forms of transportation products.

## Grade 9 Courses:

<b>Compulsory Courses</b>		<b>Elective Courses</b>	
<b>Canadian and World Studies</b>		<b>The Arts</b>	
Geography CGC1DI CGC1PI	Geography of Canada (Academic) Geography of Canada (Applied)	Music AMI1OI AMI1OX AMV1OI	Instrumental Music (experienced) Instrumental Music (beginner) Vocal/Choral Music
<b>English</b>		Art AV11OI	Visual Arts
ENG1DI ENG1PI	English (Academic) English (Applied)	<b>Business Studies</b>	
<b>French</b>		BBI1OI BTT1OI	Introduction to Business Information and Communication Technology in Business
FSF1DI FSF1PI	French (Academic) French (Applied)	<b>Social Sciences and Humanities</b>	
<b>Mathematics</b>		Family Studies HFN1OI	Food and Nutrition
MPM1DI MFM1PI	Principles of Mathematics (Academic) Foundations of Mathematics (Applied)	<b>Health and Physical Education</b>	
<b>Science</b>		PPL1OX PPL1OY	Healthy Active Living – (Female) Healthy Active Living – (Male)
SNC1DI SNC1PI	Science (Academic) Science (Applied)	<b>Technological Education</b>	
		TIJ1OI	Exploring Technologies
		<b>Guidance</b>	
		GLE1OI	Learning Strategies 1

**Note: The fifth character in the course code indicates the destination**  
**D= Academic    A= Applied    O= Open**

## Grade 10 Courses:

<p style="text-align: center;"><b>The Arts</b></p> <p><i>English</i> ADA2OI     Dramatic Arts</p> <p><i>Music</i> AMG2OI     Guitar AMI2OI     Instrumental Music – Band AMV2OI     Vocal/Choral Music</p> <p><i>Art</i> AVI2OI     Visual Arts AWS2OI     Computer Graphics</p> <p style="text-align: center;"><b>Business Studies</b></p> <p>BBI2OI     Introduction to Business BTT2OI     Information &amp; Communication Technology in Business</p> <p style="text-align: center;"><b>Canadian and World Studies</b></p> <p><i>History</i> CHC2DI     Canadian History in the 20<sup>th</sup> Century CHC2PI     Canadian History in the 20<sup>th</sup> Century CHV2OH     Civics</p> <p><i>Geography</i> CGL23I     Sustainable Living</p> <p style="text-align: center;"><b>Classical Studies and International Languages</b></p> <p>LWSBDI     Spanish - Beginner</p> <p style="text-align: center;"><b>English</b></p> <p>ENG2DI     English ENG2PI     English</p> <p style="text-align: center;"><b>French As A Second Language</b></p> <p>FSF2DI     Core French</p>	<p style="text-align: center;"><b>Guidance and Special Education</b></p> <p>GLC2OH     Career Studies GLE2OI     Learning Strategies</p> <p style="text-align: center;"><b>Health and Physical Education</b></p> <p>PAF2OX     Live-Fit – (Female) PPL2OX     Healthy Active Living – (Female) PAF2OY     Power-Fit – (Male) PPL2OY     Healthy Active Living – (Male)</p> <p style="text-align: center;"><b>Mathematics</b></p> <p>MPM2DI     Principles of Mathematics MFM2PI     Foundations of Mathematics</p> <p style="text-align: center;"><b>Science</b></p> <p>SNC2DI     Science SNC2PI     Science</p> <p style="text-align: center;"><b>Social Sciences and Humanities</b></p> <p><i>Family Studies</i> HFN2OI     Food and Nutrition</p> <p style="text-align: center;"><b>Technological Education</b></p> <p>TCJ2OI     Construction TDJ2OI     Technical Design/Communications Technology TMJ2OI     Machining &amp; Welding Processes TTJ2OI     Transportation Automotive Service</p>
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## Grade 11 Courses:

<p style="text-align: center;"><b>The Arts</b></p> <p><i>English</i> ADA3MI Dramatic Arts</p> <p><i>Music</i> AMG3OI Guitar AMI3MI Instrumental Music - Band AMV3MI Vocal/Choral Music</p> <p><i>Art</i> ASM3MI Media Arts (Yearbook) AVI3MI Visual Arts AWQ3MI Digital Photography AWQ3OI Digital Photography</p> <p style="text-align: center;"><b>Business Studies</b></p> <p>BAF3MI Financial Accounting Fundamentals BMI3CI Marketing: Goods, Services, Events BTA3OI Information and Communication Technology: The Digital Environment CLU3MI Understanding Canadian Law</p> <p style="text-align: center;"><b>Canadian and World Studies</b></p> <p><i>Geography</i> CGL23I Sustainable Living CGF3MI Physical Geography CGG3OI Travel and Tourism SVN3MI Environmental Science</p> <p><i>History</i> CHG33I Genocide &amp; Crimes Against Humanity CHW3MI World History to the Sixteenth Century CLU3MI Understanding Canadian Law</p> <p style="text-align: center;"><b>Classical Studies and International Languages</b></p> <p>LWSCUI Spanish - Intermediate</p> <p style="text-align: center;"><b>English</b></p> <p>EMS3OI Media Studies ENG3CI English (college) ENG3EI English (workplace) ENG3UI English (university)</p> <p style="text-align: center;"><b>French As A Second Language</b></p> <p>FSF3UI Core French</p> <p style="text-align: center;"><b>Guidance and Special Education</b></p> <p>GPP3OY Peer Helping GLE3OI Advanced Learning Strategies 1</p> <p><i>Cooperative Education</i> COP3OC Coop</p> <p style="text-align: center;"><b>Health and Physical Education</b></p> <p>PAF3OX Live-Fit (Female) PAF3OY Cross Training (Male) PPL3OX Healthy Active Living – (Female) PPL3OY Healthy Active Living – (Male) PPZ3CI Health for Life – (Co-ed)</p>	<p style="text-align: center;"><b>Interdisciplinary Studies</b></p> <p>IDC3OX Student Leadership I</p> <p style="text-align: center;"><b>Mathematics</b></p> <p>MBF3CI Foundations for College Mathematics MCF3MI Functions and Applications MCR3UI Functions MEL3EI Mathematics for Work and Everyday Life ICS3UI Computer &amp; Information Science</p> <p style="text-align: center;"><b>Native Studies</b></p> <p>NDA3MI Current Aboriginal Issues in Canada</p> <p style="text-align: center;"><b>Science</b></p> <p>SBI3CI Biology SBI3UI Biology SCH3UI Chemistry SPH3UI Physics SVN3MI Environmental Science</p> <p style="text-align: center;"><b>Social Sciences and Humanities</b></p> <p><i>Family Studies</i> HNC3CI Understanding Fashion HPC3OI Raising Healthy Children HPW3CI Working with Infants &amp; Young Children TFJ3CI Hospitality</p> <p><i>History</i> HSP3CI Anthropology, Psychology and Sociology HSP3UI Anthropology, Psychology and Sociology</p> <p style="text-align: center;"><b>Technological Education</b></p> <p>TCJ3EI Home Renovation and Repair TDJ3MI Engineering and Architecture TGJ3MI Communications TMJ3CI Manufacturing TMW3EX Welding TTJ3CI Auto Mechanics – Vehicle Service TTA3CX Vehicle Service</p> <p style="text-align: center;"><b>OYAP- Ontario Youth Apprenticeship Program</b></p> <p>COP3OC</p> <ul style="list-style-type: none"> <li>• Automotive Service Technician</li> <li>• Auto body Technician</li> <li>• Truck and Coach Technician</li> <li>• Machinist , Millwright, Welder</li> <li>• Carpenter, Framer, Bricklayer</li> <li>• Heavy Equipment Mechanic</li> </ul> <p>See your Guidance counsellor for the full list.</p>
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**U= University      M= University/College      C= College      E= Workplace      O= Open**

## Grade 12 Courses:

<b>The Arts</b>		<b>Interdisciplinary Studies</b>	
<i>English</i> ADA4MI	Dramatic Arts	IDC4OX IDC4UX	Student Leadership II Leadership - University
<i>Music</i> AMI4MI AMV4MI	Instrumental Music - Band Vocal/Choral Music	<b>Mathematics</b>	
<i>Art</i> ASM4MI AVI4MI	Media Arts (Yearbook) Visual Arts	MAP4CI MCT4CI MCV4UI MDM4UI MEL4EI MHF4UI ICS4UI	Foundations for College Mathematics Mathematics for College Technology Calculus and Vectors Mathematics of Data Management Mathematics for Work and Everyday Life Advanced Functions Computer & Information Science
<b>Business Studies</b>		<b>Native Studies</b>	
BAT4MI BOH4MI	Financial Accounting Principles Business Leadership: Management Fundamentals	NDW4MI	Issues of Indigenous People in a Global Context
CIA4UI CLN4UI	Analysing Current Economic Issues Canadian and International Law	<b>Science</b>	
<b>Canadian and World Studies</b>		SBI4UI SCH4CI SCH4UI SES4UI SPH4CI SPH4UI	Biology Chemistry Chemistry Earth and Space Science Physics Physics
<i>Geography</i> CGR4EI CGR4MI CGW4UI SES4UI	Living in a Sustainable World Environment & Resource Management Canadian and World Issues Earth and Space Science	<b>Social Sciences and Humanities</b>	
<i>History</i> CHY4UI CIA4UI CLN4UI	The West and the World Analyzing Current Economic Issues Canadian and International Law	<i>Family Studies</i> HFA4CI HFA4UI HHS4UI HNB4MI TFJ4EI <i>History</i> HSB4UI HZT4UI	Nutrition &Health Nutrition &Health Families in Canada The World of Fashion Hospitality & Tourism-Cooking Challenge & Change in Society Philosophy: Questions &Theories
<b>Classical Studies and International Languages</b>		<b>Technological Education</b>	
LWSDUI	Spanish	TCJ4CI TDA4MX TDJ4MI TGJ4MI TMJ4CI TMW4EX TTJ4CI TTA4CX	Home Renovation and Repair Architectural Design Engineering Communications Manufacturing Technology Welding Auto Mechanics, Vehicle Service Vehicle Service
<b>English</b>		<b>OYAP- Ontario Youth Apprentice Program</b>	
ENG4CI ENG4EI ENG4UI ETS4UI EWC4UI	English (college) English (workplace) English (university) Studies in Literature The Writer's Craft	COP4OC	Any trade or career specific field
<b>French As A Second Language</b>			
FSF4UI	Core French		
<b>Guidance and Special Education</b>			
GLE4OI	Advanced Learning Strategies 2		
<i>Cooperative Education</i> COP4OC	Coop		
<b>Health and Physical Education</b>			
PAF4OI PLF4MI PPL4OI PSK4UI	Cross Training (Co-ed) Recreation & Healthy Active Living Leadership Active Living <i>Off Campus</i> (Co-ed) Introductory Kinesiology		

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**Application to University** requires an OSSD; including successful completion of 6 4U or 4M courses. Certain prerequisites exist for various programs – see your guidance counselor or [www.electronicinfo.com](http://www.electronicinfo.com) for more information.

**Application to College** requires an OSSD; some programs list **specific course requirements**. See the college calendar [www.ontariocolleges.ca](http://www.ontariocolleges.ca), or your guidance counselor for details.