



TABLE OF CONTENTS

ACADEMIC POLICIES	3-12
School Support Services and Resources	4
Prior Learning Assessment and Recognition Process	5
Graduation Requirements.....	6-7
Ontario Secondary School Literacy Test (OSSLT)	8
Course Designation	9-11
Educational and Career Planning	12
SPECIALIST HIGH SKILLS MAJORS	13-21
Transportation	14-15
Health & Wellness.....	16-17
Environment	18-19
Summit Program	20-21
COURSE DESCRIPTIONS.....	22-75
THE ARTS	22-24
Dramatic Arts	22
Visual Arts.....	23
Integrated Arts	24
BUSINESS STUDIES	25
CANADIAN and WORLD STUDIES	26-30
Civics	26
Geography.....	27
History.....	28-29
Law	30
NATIVE STUDIES.....	31
ENGLISH	32-35
FRENCH AS A SECOND LANGUAGE	36-38
Core French.....	36
French Immersion.....	37-38
GUIDANCE and CAREER EDUCATION	39-40
Career Studies.....	39
Leadership and Peer Support	40
HEALTH and PHYSICAL EDUCATION.....	41-44
MATHEMATICS	45-49
SCIENCES	50-54
Science	50-51
Biology.....	52
Chemistry.....	53
Physics	54
SOCIAL SCIENCES and HUMANITIES	55-58
TECHNOLOGICAL STUDIES	59-66
Computer Studies.....	59
Exploring Technologies.....	60
Construction Technology.....	61
Manufacturing (Welding) Technology	62
Technological Design.....	63
Transportation Technology	64-65
WORK EXPERIENCE PROGRAMS - Co-op & OYAP.....	66
COURSE OFFERINGS THROUGH OTHER MEANS	67
E-LEARNING COURSES	68



DISTRICT SCHOOL BOARD ONTARIO NORTH EAST
**IROQUOIS FALLS
SECONDARY SCHOOL**
www.dsbl.ca/ifss



General Information

The purpose of this calendar is to provide information to students and parents about Iroquois Falls Secondary School. Our school provides a wide variety of educational experiences and each student must annually choose the courses that will bring the student to his or her desired goals.

Courses of Study

Detailed courses of study for all courses taught are available at the school for perusal. All courses offered by this school have been developed according to the requirements of the Ontario Ministry of Education and Training.

Objectives

1. To foster a sense of respect for oneself and others.
2. To provide students with the basic skills of literacy and numeracy.
3. To inculcate the intellectual skills and habits of inquiry, analysis, synthesis and evaluation.
4. To have students develop general understanding and curiosity in the major disciplines of knowledge.
5. To teach specific skills, knowledge, attitudes and habits for higher education, employment and living.
6. To foster a mature sense of self-discipline and self-direction.
7. To provide knowledge and skills for physical, mental, emotional and social well-being.

Assistance

Students **must obtain** recommendations from their teachers about their course selection. Students may also receive assistance in choosing courses by contacting the Student Services Department or the school Administration (705-258-3921).

At Iroquois Falls Secondary School we strive to provide
an equal educational opportunity to all students.

School Support Services And Resources

Special Education

Universal access to education is fundamental to our society. Special education programs are designed to ensure access by exceptional pupils to an education that is based on the goals that underlie education for all students.

The special needs of an exceptional pupil are outlined by an Identification, Placement and Review Committee of the District School Board. Five broad categories of exceptionality - behavioural, communication, intellectual (including gifted), physical and multiple provide a preliminary understanding of the wide range of differences for which provisions must be made.

The Special Education Advisory Committee (SEAC) is responsible to the District School Board for examining, reviewing and making recommendations regarding the provision of Special Education Programs and Services. SEAC consists of representatives of up to twelve community associations, three trustees, and the Superintendent of Special Education.

District School Board Ontario North East has a Special Education Plan in place and reviews the plan annually according to Ministry of Education and Training directives. The plan is available in each school. The District School Board's range of special education program options is outlined in the *Special Education Parent Handbook*. This Handbook is provided to the parent(s)/guardian(s) of identified students and also outlines the information contained in Regulation 181/98. A copy is available at each school.

Special Education Support Services may be required in order to maximize an identified student's potential. It is a continuous pursuit of the District School Board to develop and implement the programs and services that will both address the needs of the learner and reflect the beliefs of District School Board Ontario North East.



Exceptional Students

Any student may be referred for assessment of their educational needs and formal identification through the Program Leader of Special Education. Students who have been identified as exceptional by the District School Board Ontario North East and who are in need of a Special Education Program will be monitored by the Special Education Department. This will ensure that the program objectives are being satisfied and that any necessary special equipment or resources are made available. These individualized programs are based on and modified by the results of continuous assessment and include a written plan (IEP). Most exceptional students are fully integrated into regular courses but the curriculum and teaching strategies may be modified. *Please contact the Special Education Program Leader for more details.*

Courses

Learning Strategies Courses: These courses are designed specifically to help students be successful. They are only available to Identified students, and registration is by recommendation of the Head of Special Education. (See Learning Strategies course descriptions GLE10)

Prior Learning Assessment and Recognition Process

Who begins the process?

The mature student, who enrolls at Iroquois Falls Secondary School, begins the process by informing the Principal that he/she wants his/her prior learning assessed.

Grade 9 and 10 Individual Assessment (Equivalency process)

- This is an individual assessment/equivalency process for the purpose of granting up to 16 Grade 9 and 10 credits through (a) review and analysis of transcripts, or (b) review and analysis of transcripts and completion of individual assessments, or (c) completion of individual assessments.

Grade 11 and 12 Individual Assessment (Equivalency process)

- This is an individual assessment/equivalency process for the purpose of granting up to 10 Grade 11 and 12 credits through (a) review and analysis of formal transcripts issued by recognized educational or training institutions within or outside Ontario, or (b) Certificates of Apprenticeship and Certificates of Qualification for apprenticeships granted by or recognized by the Ministry of Training, Colleges and Universities, or (c) other appropriate documentation of learning gained from other programs, courses, or work experience.

Grade 11 and 12 Individual Assessment (Challenge process)

- This is an individual assessment/equivalency process for the purpose of granting up to 10 Grade 11 and 12 credits, whereby a mature student's prior learning is assessed through a variety of assessment strategies, including formal tests (written work and practical demonstrations), valued at 70%, and other assessment strategies, valued at 30%, and the standards of achievement must be same as standards for credits granted to students who have taken the course.



What do you need to Graduate?

18 COMPULSORY CREDITS

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

4	credits in English *
3	credits in Mathematics
2	credits in Science
1	credit in Canadian History
1	credit in Canadian Geography
1	credit in Arts
1	credit in Health and Physical Education
1	credit in French as a Second Language
0.5	credit in Career Studies
0.5	credit in Civics



Plus one credit from each of the following groups:

- 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. ***
- 1 additional credit in French as a second language**, or health and physical education, or the arts, or business studies, or cooperative education.***
- 1 additional credit in French as a second language**, or science, or technological education, or cooperative education*** or computer Studies.

In addition to the compulsory credits, students must complete:

- ✓ 12 optional credits *****
- ✓ 40 hours of community involvement activities
- ✓ The provincial literacy requirement

* One credit per grade

** A maximum of two credits in French as a second language can count as Compulsory Credits.

*** A maximum of two credits in Cooperative Education can count as Compulsory Credits.

***** May include up to four credits achieved through Dual Credit courses.

REQUIREMENTS FOR THE ONTARIO SECONDARY SCHOOL CERTIFICATE

A student who leaves school prior to earning an O.S.S.D., may request an O.S.S.C. (Ontario Secondary School Certificate) provided 14 credits have been achieved.

- 7 COMPULSORY CREDITS
- 7 OPTIONAL CREDITS

7 COMPULSORY CREDITS

- 2 credits in English
- 1 credit in Canadian Geography or Canadian History
- 1 credit in Mathematics
- 1 credit in Science
- 1 credit in Health and Physical Education
- 1 credit in the Arts or Technological Education or computer studies.



REQUIREMENTS FOR THE CERTIFICATE OF ACCOMPLISHMENT

Students who leave school prior to completing an O.S.S.D. (Ontario Secondary School Diploma) or an O.S.S.C. (Ontario Secondary School Certificate) may be granted a Certificate of Accomplishment.

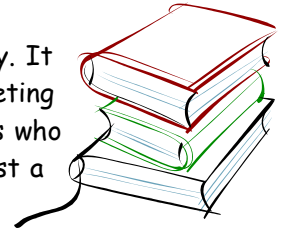
This may be useful for students who plan to take certain vocational programs or who plan to find employment after leaving school.



ONTARIO SECONDARY SCHOOL LITERACY TEST (OSSLT)

All students must successfully complete the provincial secondary school literacy test in order to earn a secondary school diploma. The test is based on Ontario curriculum expectations for language and communication, particularly reading and writing, up to and including grade 9.

The test will determine who has attained the provincial expectations for literacy. It will identify areas for remediation for students who are unsuccessful in completing the test. School boards are required to provide remedial assistance for students who are unsuccessful in completing the test. Students are permitted to write the test a second time if they are unsuccessful on the first attempt.



OLC 40 - Ontario Secondary School Literacy Course, Grade 12, Open

This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test. Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a literacy portfolio containing a record of their reading experiences and samples of their writing.

Eligibility

Students, who have been eligible to write the Ontario Secondary School Literacy Test (OSSLT) at least once, and have been unsuccessful at least once, are eligible to take this course to achieve both a Grade 12 credit and their literacy credential for graduation. **This course does not replace the required ENG4C course required for students applying to college.**

Accommodations

Students who are receiving special education programs and services and who have an Individual Education Plan will receive the same accommodations that are set out in the students IEP and/or that are available to the student during the literacy test.

Deferrals

Students who might benefit from a deferral of the test may include students who have been identified as exceptional and students registered in English as a second language/English literacy development courses who have not yet acquired the level of proficiency in English required for successfully completing the test. The principal determines if a deferral should be granted and the time period for the deferral.

Exemptions

Students whose IEP indicates that the student is not working towards the attainment of a secondary school diploma may, with parental consent and approval of the principal, be exempted from participating in the literacy test.

GRADE 9 and 10 PROGRAM

ALL GRADE 9 and 10 STUDENTS MUST TAKE 8 CREDITS EACH YEAR.

All Grade 9 students will take ENGLISH, FRENCH, GEOGRAPHY, MATHEMATICS, SCIENCE and HEALTHY ACTIVE LIVING. Students who have followed FRENCH IMMERSION or FRANÇAIS programs at the elementary level are expected to take IMMERSION FRENCH and IMMERSION GEOGRAPHY as part of their core program.

COURSES

In Grades 9 and 10, there are four types of courses.

ACADEMIC COURSES

Academic courses focus on the essential concepts of a subject. Knowledge and skills are developed through practical applications with an emphasis on theory and abstract thinking.

APPLIED COURSES

Applied courses stress practical application and concrete examples while covering essential concepts.

OPEN COURSES

Open courses are designed to prepare students for further study in select subject areas.

Locally Developed Compulsory Credit Courses

These courses are designed to give students the flexibility and support they need to meet the curriculum expectations in their courses and to proceed toward a diploma or certificate. Locally developed courses are intended for students whose educational needs cannot be met by the provincial Grade 9 & 10 academic and applied courses in the specified disciplines. Locally developed courses prepare students for successful study in the grade 11 or 12 workplace pathway.



GRADE 11 and 12 PROGRAM

THE SCHOOL STRONGLY RECOMMENDS THAT STUDENTS TAKE 8 CREDITS.

COURSES

In Grades 11 and 12 there are six types of courses.

UNIVERSITY PREPARATION COURSES

University preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for university programs.

UNIVERSITY/COLLEGE PREPARATION COURSES

University/college preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for specific programs offered at universities and colleges.

COLLEGE PREPARATION COURSES

College preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for entrance to most college programs or for admission to apprenticeship or other training programs.

WORKPLACE PREPARATION COURSES

Workplace preparation courses are designed to equip students with the knowledge and skills they need to meet the expectations of employers, if they plan to enter the workplace directly after graduation, or the requirements for admission to certain apprenticeship or other training programs.

OPEN COURSES

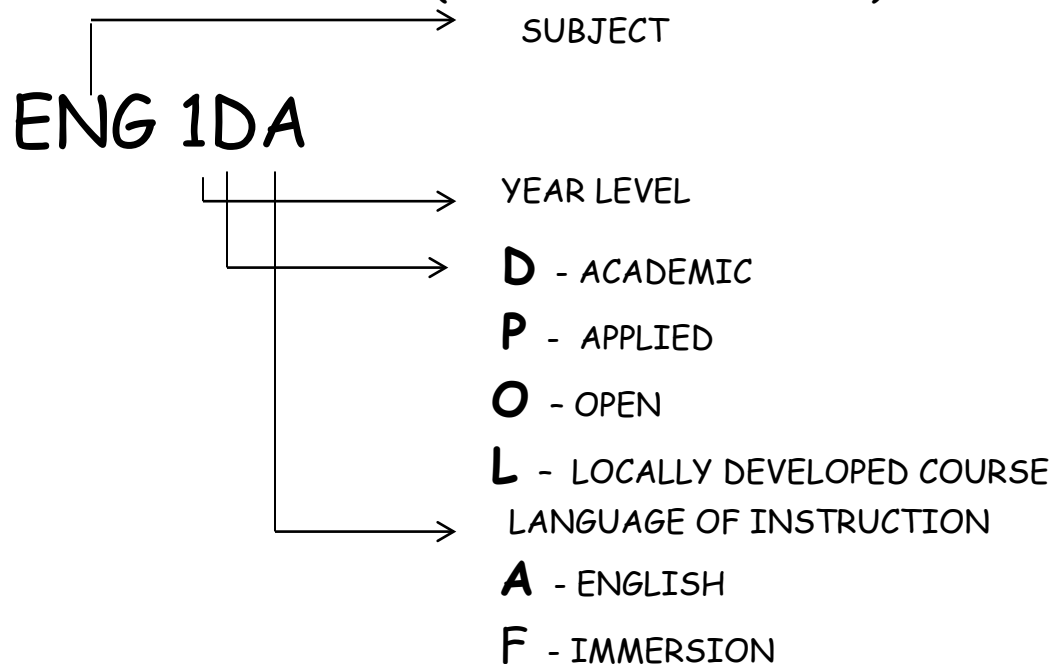
Open courses are designed to broaden students' knowledge and skills in subjects that reflect their interests and to prepare them for active and rewarding participation in society. They are not designed with the specific requirements of universities, colleges, or the workplace in mind.

DUAL CREDIT COURSES

Dual Credit Courses are courses that meet both secondary school and college requirements and for which a student can earn a credit towards an OSSD and a college diploma. These courses can be delivered by the secondary school or the college.

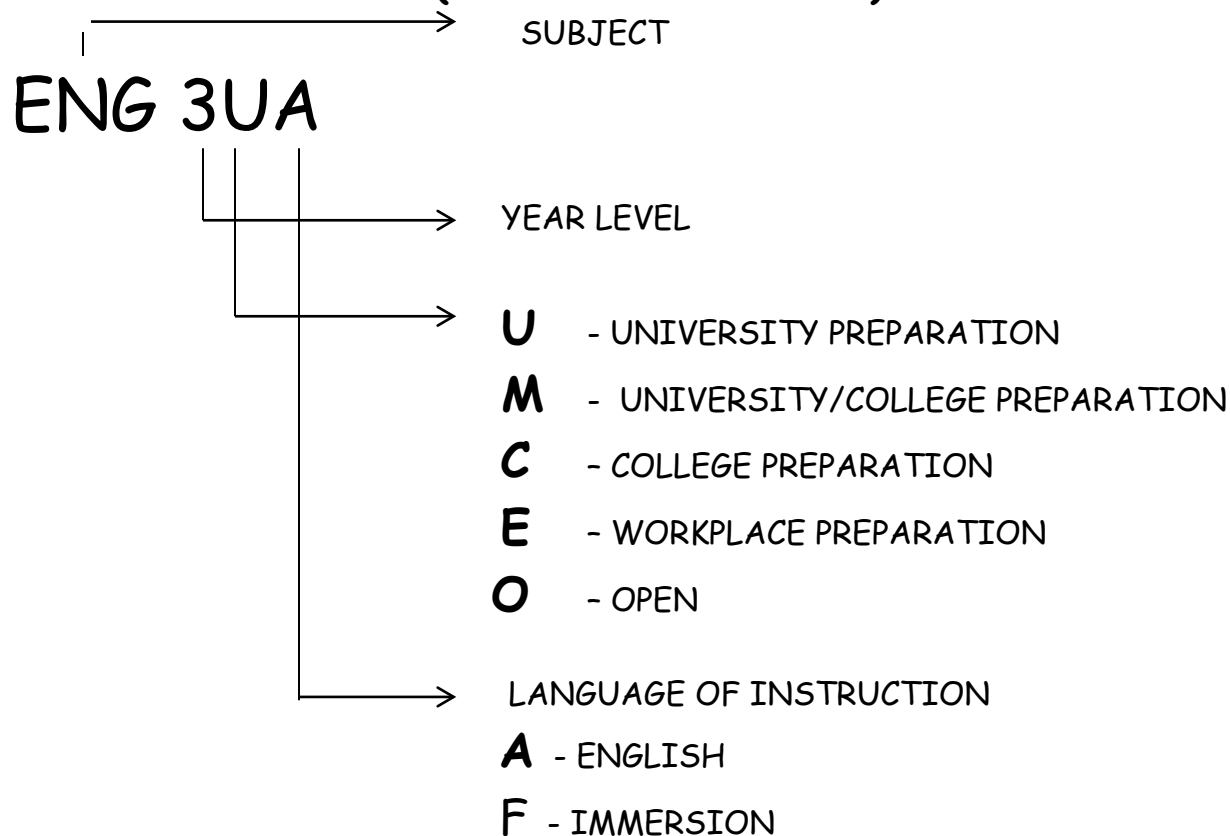
COURSE DESIGNATION

(Grade 9 & 10 courses)



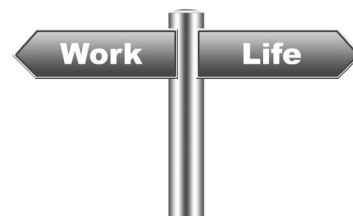
COURSE DESIGNATION

(Grade 11 & 12 courses)



EDUCATIONAL AND CAREER PLANNING

Students should select courses in the pathway in which they expect to pursue. Students may take some courses in one pathway and other courses in another pathway in the same year. Note that many courses require a "prerequisite" course. Previous successful completion of the prerequisites will ensure that students enter courses with the best possible chance of success. College and university programs have certain course and mark requirements. Therefore, plan as far into the future as possible to avoid a situation in the future in which you wish to enroll in a subject or course for which you lack the pre-requisite.



Take as many varied courses as possible in order to help find your strengths and weaknesses, likes and dislikes; our goal is to help you become a well-rounded individual.

A student who attends college and does well, may, in many instances, transfer into a university program with minimal loss of time. For further information see the "ONTARIO TRANSFER GUIDE" located in the Student Services Office.

IFSS provides access for our students to the website: www.myBlueprint.ca. It is an excellent tool for timetable planning, tracking community service hours, setting goals, and researching all post-secondary programs (colleges and universities) in Canada. See your guidance counsellor for the password and instructions.

Students who will be applying to university will need to complete SIX grade 12 courses in the "U" (university) or "M" (university/ college) pathway. English (ENG4U) is a mandatory course for ALL university programs.



SPECIALIST HIGH SKILLS MAJOR (SHSM)

Student Success is about meeting the individual learning needs of each and every student. Schools are providing students with more opportunities to customize their high school experience and build upon their strengths and interests through a variety of new and enhanced learning options.

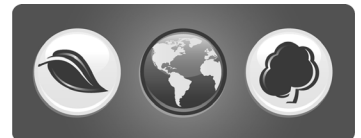


What is a Specialist High Skills Major?

A Specialist High Skills Major (SHSM) is a type of Ministry-approved specialized program. A SHSM allows students to focus on knowledge and skills that are of particular importance in certain economic sectors, and to obtain certifications recognized in those sectors, as they work towards meeting the requirements of an Ontario Secondary School Diploma (OSSD). Students who graduate with a SHSM designation on their diploma are prepared for success in a particular sector and in the postsecondary destination of their choice, whether it be apprenticeship training, a college or university program, or the workplace.

How Will the Specialist High Skills Major Benefit Students?

A SHSM allows a student to experience a range of customized, career-focused learning opportunities. It enables a student to take courses in an area of interest related to a particular sector while working towards an OSSD.



The focused learning experiences of a SHSM program give students the opportunity to explore, identify, and refine career goals and make informed decisions related to postsecondary education, training, and next steps towards a career.

The experiential learning opportunities provided in a SHSM enable students to refine their skills and improve their work habits, gain confidence in their ability to succeed, and see the connections between their studies, the real world, and their future careers. Students are also able to begin to establish relationships and networks in their chosen fields.

Students who graduate with a SHSM can look forward to improved prospects after secondary school because of the recognition of and support for the SHSM framework content from a variety of representatives from the economic sector, apprenticeship training programs, colleges, and universities.



SPECIALIST HIGH SKILLS MAJOR



Transportation

Program Overview

The Specialist High Skills Major Program (SHSM) in Transportation at Iroquois Falls Secondary School will provide Grade 11 and 12 students with knowledge, skills, certifications, and on the job learning experiences within industries related to the Transportation Sector. This will enable students to fill the employment positions that will become available in Northern Ontario. Students may choose between the four pathways: school to work, Apprenticeship, College, and University. It is expected that through the Cooperative Education Placements students will develop a relationship with employers who will potentially hire them during the summer months.

Students Will:

- Learn industry-standard practices for the maintenance and repair of motor vehicles.
- Earn industry-standard certifications to help prepare students for entry into a variety of transportation positions.
- Learn strategies for minimizing repair time and expenses.
- Gain valuable training and experience in a variety of transportation related activities.
- Visit post secondary institutions that offer related programs of study.

Course Program:

Students can continue on into all potential post-secondary destinations through this pathway - apprenticeship, college, university and the workplace. The program for students will consist of a total of 9 credits:

- | | |
|-------------------------------------|---------------------------------------|
| • 2-4 Senior Transportation Credits | • 1 Senior Science or Business Credit |
| • 0-2 Senior Manufacturing Credits | • 1 Senior English Credit |
| • 1 Senior Math Credit | • 2 Co-op Credits |

What other training will I receive?

- | | |
|-------------------------|--|
| • WHMIS | • Vehicle Lift Safety |
| • CPR | • Filling Propane and Motor Fuel Tanks |
| • Basic Health & Safety | • Fire Extinguisher Use |
| • Standard First Aid | |

Courses and Pathway:

Total Credits	Apprenticeship ☐		College ☐		University ☐		Work Place ☐	
SHSM Major (2 Gr 11 credits/ 2 Gr 12 credits)	Grade 11	Grade 12	Grade 11	Grade 12	Grade 11	Grade 12	Grade 11	Grade 12
	TTJ3C TTA3C TMJ3C	TTJ4C TTA4C TMJ4C TLA4Y TTE4Y	TTJ3C TTA3C TMJ3C	TTJ4C TTA4C TMJ4C TTE4Y TLA4Y	TTJ3C TTA3C TDJ3M **TTE4Y	SPH4U TGJ4M TDJ4M TMJ4M	TTJ3O TMJ3E TDJ3O	TTJ4E TMJ4E TDJ4O **TTE4Y
English (1 credit)	ENG3E ENG3C	**OLC4O	ENG3C		ENG3U			ENG4E **OLC4O
Math (1 credit)	MBF3C	MAP4C MEL4E	MBF3C	MAP4C MCT4C	MCR3U	MHF4U MDM4U MCV4U	MEL3E	MEL4E
Gr 11 or 12 Science or Business (1 credit)	SVN3E BDI3C SBI3C BTA3O BMX3E BDP3O	SCH4C SPH4C SNC4E	SBI3C SVN3M BAF3M BDI 3C	SCH4C SPH4C BOH4M BBB4M	SVN3M SCH3U SPH3U SBI3U	SCH4U SPH4U BOH4M BBB4M	BTA3O SVN3E BMX3E BDP3O	SNC4E
Coop (2 credits)	2 Credit Coop Tied to SHSM Sector		2 Credit Coop Tied to SHSM Sector		2 Credit Coop Tied to SHSM Sector		2 Credit Coop Tied to SHSM Sector	
9 credits total	**pending Ministry approval							

Application Details and Contact Information:

For further information or to register for this program,
please see your Guidance Counselor.



SPECIALIST HIGH SKILLS MAJOR



Health and Wellness

Program Overview

The Specialist High Skills Major Program (SHSM) in Health and Wellness at Iroquois Falls Secondary School will provide Grade 11 and 12 students with knowledge, skills, certifications, and on the job learning experiences within industries related to health care, medical research, social work, emergency services, and other related fields. This program allows our diverse student population the ability to focus their learning on the fast growing health care sector.

Students Will:

- Take a bundle of nine Grade 11 and Grade 12 credits chosen from the approved list of qualifying Health and Wellness sector courses.
- Earn industry-standard certifications to help prepare them for entry into health care employment or post-secondary educational programs.
- Gain hands-on experience using industry standard instruments, equipment, and materials.
- Practice current medical techniques and procedures.
- Expand their communication and interpersonal skills as they interact with their peers and clients in a variety of simulated care scenarios.
- Learn about the social aspects of working with people.
- Explore jobs and careers related to Health and Wellness related industries.
- Have the opportunity to take a college dual credit course in developmental psychology.
- Visit post secondary institutions that offer related programs of study.

Course Program:

Students can continue on into all potential post-secondary destinations through this pathway - apprenticeship, college, university and the workplace. The program for students will consist of 9 credits:

- | | |
|--|--|
| • 4 Credits in major Health Care related core subjects | • 1 Senior English Credit |
| • 1 Senior Math Credit | • 2 Co-op Credits in a Health and Wellness related field |
| • 1 Senior Science Credit | |

What other training will I receive?

Seven certifications are included as part of the program. Possible certifications are:

- | | |
|----------------------|---|
| • WHMIS | • Conflict Resolution |
| • Standard First Aid | • Automated External Defibrillation (AED) |
| • CPR | • Behaviour Management |
| • Infection Control | |

Courses and Pathway:

Total Credits	Apprenticeship ☐		College ☐		University ☐		Work Place ☐	
SHSM Major (2 Gr 11 credits/ 2 Gr 12 credits)	Grade 11	Grade 12	Grade 11	Grade 12	Grade 11	Grade 12	Grade 11	Grade 12
	PAL3O SVN3E HPC3O HPW3C PPZ3O PPL3O	SCH4C SPH4C PAI 4O PAF 4O PAL 4O	HPW3C SBI3C SVN3M	PLF4C SCH4C HHG4M TOJ 4C	SBI3U SCH3U SPH3U	SBI4U SCH4U SPH4U HHG4M	HPC3O PPL3O PPZ3O GPP3O PAI3O PAL3O	SNC4E PAI4O PAL4O
English (1 credit)	**OLC4O	ENG4E ENG4C		ENG4C		ENG4U	**OLC4O	ENG4E
Math (1 credit)	MEL3E MBF3C MCF3M	MAP4C MCT4C	MCF3M MBF3C	MAP4C MCT4C	MCF3M MCR3U	MHF4U MDM4U MCV4U	MEL3E	MEL4E
Gr 11 or 12 Science /Social Science (1 credit)	SBI3C SVN3E HPC3O	SCH4C SNC4E SPH4C	SBI3C SVN3M HPC3O	SCH4C SNC4M SPH4C HIP4O HHG4M HHS4C	SBI3U SCH3U SVN3M SPH3U	SBI4U SCH4U SNC4M SPH4U HHS4U HHG 4M	SVN3E HPC3O	SNC4E HIP4O
Coop (2 credits)	2 Credit Coop Tied to SHSM Sector		2 Credit Coop Tied to SHSM Sector		2 Credit Coop Tied to SHSM Sector		2 Credit Coop Tied to SHSM Sector	
9 credits total	**pending Ministry approval							



Application Details and Contact Information:

For further information and a registration form, please see your Guidance Counsellor.

SPECIALIST HIGH SKILLS MAJOR



Environment

Summit Program: Environmental & Adventure Leadership Program

Program Overview

The Specialist High Skills Major Program (SHSM) in the Environment Sector at Iroquois Falls Secondary School will provide Grade 11 and 12 students with knowledge, skills, certifications, and on the job learning experiences within industries related to the environment, natural resource management, outdoor recreation, and adventure-tour operations. In IFSS' Summit Program - Environmental & Adventure Leadership students participate in a variety of classroom and field activities designed to prepare them for post secondary programs in this fast-growing industry.

Students Will:

- Learn industry-standard practices for minimizing environmental impacts while accessing & using natural resources for industrial and recreational purposes.
- Earn industry-standard certifications to help prepare students for entry into a variety of environmental, natural resource, and adventure leadership professions.
- Learn strategies for avoiding and responding to emergencies in high-risk wilderness aquatic & terrestrial environments.
- Gain valuable leadership training and experience in a variety of wilderness adventure activities, such as backpacking, skiing, snowshoeing, orienteering, geocaching, canoeing, kayaking, and mountain biking.
- Visit several municipal, provincial, and national parks to explore the roles of these protected areas and central issues related to park management.
- Participate in urban green-area naturalization and wilderness interpretive trail development projects.
- Visit post secondary institutions that offer related programs of study.

Course Program:

Students can continue on into all potential post-secondary destinations through this pathway - apprenticeship, college, university and the workplace. The program for students will consist of 9 credits:

- | | |
|--|----------------------------|
| • 4 Major Credits from Sector Specific Courses | • 2 Senior English Credits |
| • 1 Senior Math Credit | • 2 Co-op Credits |

What other training will I receive?

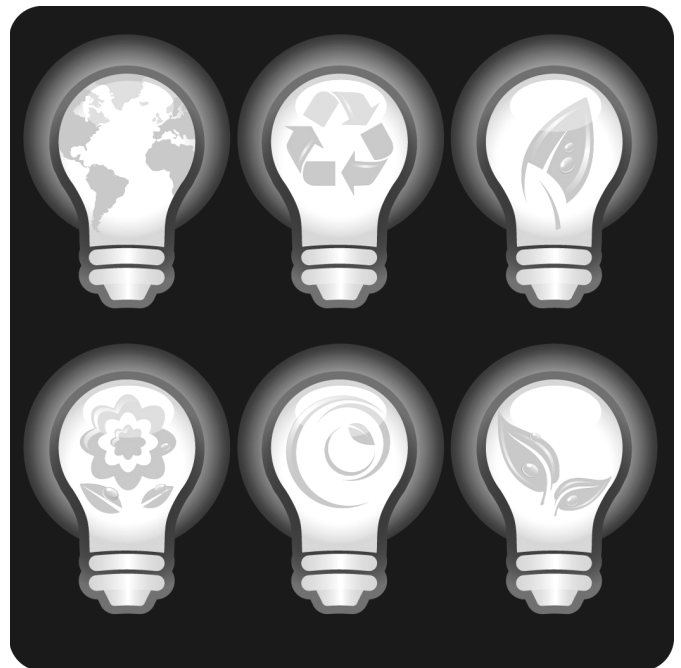
- | | |
|---------------------------------|--|
| • WHMIS | • Wilderness Navigation and GPS Training |
| • Advanced Wilderness First Aid | • Chainsaw Safety and Operation |
| • ORCKA Canoeing | • Mapping and Geotechnologies |
| • Water Safety & Rescue | |

Courses and Pathway:

Total Credits	Apprenticeship ☐		College ☐		University ☐		Work Place ☐	
SHSM Major (2 Gr 11 credits/ 2 Gr 12 credits)	Grade 11	Grade 12	Grade 11	Grade 12	Grade 11	Grade 12	Grade 11	Grade 12
	CGG3O SNV3E PPZ3O PPL3O PAF3O	CGR4E PPL4O PLF4C PAL4O	CGF3M SVN3M SBI3C	CGR4M SCH4C PLF4C	CGF3M SVN3M SBI3U SCH3U	SBI4U SCH4U CGW4U	CGG3O SNV3E PPL3O PAL3O	CGR4E PPL4O PAF4O PAL4O
Gr 11 English (1 credit)	ENG3E ENG3C		ENG3C		ENG3U		ENG3E	
Gr 12 English (1 credit)		ENG4C ENG4E		ENG4C		ENG4U		ENG4E **OLC4O
Math (1 credit)	MEL3E MBF3C MCF3M	MAP4C MCT4C	MBF3C MCF3M	MAP4C MCT4C	MCR3U MCF3M	MCV4U MDM4U MHF4U	MEL3E	MEL4E
Coop (2 credits)	2 Credit Coop Tied to SHSM Sector		2 Credit Coop Tied to SHSM Sector		2 Credit Coop Tied to SHSM Sector		2 Credit Coop Tied to SHSM Sector	
9 credits total	**pending Ministry approval							

Application Details and Contact Information:

For further information or to register for this program, please see your Guidance Counsellor.



The Summit Program

Travel

Adventure

Video Production

Field Trips

Web Development

Leadership Training & Experience

The Summit program is an exciting development in IFSS's High Skills Major in Environmental and Adventure Leadership. It is a valuable opportunity for students interested in environmental issues, adventure-travel opportunities, video & web production, experience-based leadership training, and co-op experiences.

Students explore our natural resources and wilderness areas to discover current environmental practices in resource extraction, adventure tourism, and outdoor recreation. While doing so, participants develop valuable leadership skills and experience through planning, promoting, and leading outdoor adventure and/or environmental education programs.

Summit emphasizes the use of communications technology. Students develop a comprehensive technological skill set through using cutting-edge communication tools to create videos, websites, slideshows, banners, animations, etc.

The Summit program can assist those interested in pursuing careers in environmental stewardship, natural resource management, tourism, parks management, communications or other fields where leadership skills are crucial for success. It's also a great opportunity for students who want to inject adventure and travel into their high school experience, or for those who want a stronger resume with unique experiences and certifications.

Credits:

- ☐ ENG4U, English or ENG4C
- ☐ TGJ4M, Technology, Communications Technology
- ☐ CGR4M, Geography, The Environment & Resource Management
- ☐ PLF4C, Health and Physical Education, Recreation and Fitness Leadership.

Outdoor Activities & Certifications:

- ☐ Canoeing & Kayaking
- ☐ Wilderness Navigation & GPS
- ☐ Wilderness First Aid
- ☐ Forestry, Hydro, and Mining Visitations
- ☐ Skiing & Snowshoeing
- ☐ Winter Camping
- ☐ Hiking & Backpacking
- ☐ Year End Expedition
- ☐ Safe Chainsaw Operation & Maintenance
- ☐ Mountain Biking & Bike Maintenance

*Note: Students enrolled in Summit may be eligible to graduate with a High Skills Major in Environmental and Adventure Leadership Studies, although they are not required to follow this pathway.

All successful SUMMIT program participants will receive the following credits.
(Offered in 2017-2018; 2019-2020)

ENG 4US – English, Grade 12, University Preparation

Prerequisite: Grade 11 English, University Preparation

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

OR

ENG 4CS – English, Grade 12, College Preparation

Prerequisite: Grade 11 English, College Preparation

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

**CGR 4MS – The Environment and Resource Management
Grade 12, University/College Preparation**

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

This course investigates the complexity and fragility of ecosystems and the pressures human activities place on them. Students will examine ecological processes, the principles of sustainability, and strategies for resources management, with a focus on the challenges of environment degradation and resource depletion. Students will use geotechnologies and skills of geographic inquiry to explain and evaluate various approaches to achieving a more sustainable relationship between people and their environment.

TGJ 4MS – Communications Technology, Grade 12, University/College Prep.

Prerequisite: Grade 11 Communications Technology, Grade 10

This course examines communications systems and design and production processes in the areas of electronic, live, recorded, and graphic communications. Students will create, manage, and distribute complex electronic, graphic, recorded, or audio-visual projects independently and in project teams. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment.

PLF 4CS – Recreation and Fitness Leadership, Grade 12, College Preparation

Prerequisite: Any Grade 11 or 12 open course in health and physical education

This course focuses on the study of human movement and on the systems, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sports, and the factors that influence an individual's participation in physical activity. The course prepares students for university programs in physical education, kinesiology, recreation, and sports administration.



THE ARTS

DRAMATIC ARTS

ADA 3OA - Dramatic Arts, Grade 11, Open

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

ADA 4MA - Dramatic Arts, Grade 12, University/College Preparation

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

This course requires students to experiment with forms and conventions in dramatic literature, and to create/adapt and present dramatic works. Students will do research on dramatic forms, conventions, themes, and theories of acting and directing from different historical periods, and apply their knowledge of these in analyzing and interpreting dramatic literature, including Canadian works and works from various cultures in the late twentieth century. Students will also examine the significance of dramatic arts in various cultures.



VISUAL ARTS

NAC 10A - Expressing Aboriginal Cultures, Grade 9, Open



Prerequisite: None

This course examines Aboriginal cultures in Canada through an exploration of art forms - painting, sculpture, storytelling, dance, and music - created by Aboriginal artists. Students will learn to identify Aboriginal art forms and describe relationships between the art forms and Aboriginal traditions, philosophy, and culture. Students will also create their own art forms to express their understanding of Aboriginal identity, relationships, and sovereignty. ***Note: This credit fulfills the art compulsory credit.***



AVI 30A - Visual Arts, Grade 11, Open

Prerequisite: Grade 9 or 10 Visual Arts, Open

This course focuses on studio activities in one or more of the visual arts. Students will create art works that explore a wide range of subject matter, and will evaluate art works using specific criteria. They will also examine historical and cultural contexts of Western art (including Canadian art) and art from various world cultures to support their study of specific media.



AVI 4MA - Visual Arts, Grade 12, University/College Preparation

Prerequisite: Grade 11 Visual Arts, University/College Preparation or Open

This course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyse art forms; use theories of art in analysing and producing art; and increase their understanding of stylistic changes in modern and contemporary Western art, Canadian (including Native Canadian) art, and art forms from various parts of the world. Students will produce a body of work demonstrating a personal approach.



INTEGRATED ARTS

ALC 10A / ALC 20A - Integrated Arts, Grade 9 or 10, Open

Prerequisite: None



This course integrates two or more of the arts (dance, drama, media arts, music, and visual arts), giving students the opportunity to produce and present integrated art works created individually or collaboratively. Students will demonstrate innovation as they learn and apply concepts, styles, and conventions unique to the various arts and acquire skills that are transferable beyond the classroom. Students will use



the creative process and responsible practices to explore solutions to integrated arts challenges.



BUSINESS STUDIES

BTA 3OA - Information & Communication Technology: The Digital Environment Grade 11 Open

Prerequisite: None

Note: The focus of this course is the production of the IFSS yearbook.

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

BDI 3CA - Entrepreneurship: The Venture, Grade 11, College Preparation

Prerequisite: None

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

BBB 4MA - Introduction to International Fundamentals, Grade 12, University/College Preparation

Prerequisite: None

(Offered in 2017-2018; 2019-2020)

This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distributing, and managing international business effectively. This course prepares students for postsecondary programs in business, including international business, marketing, and management.



INNOVATION
SUCCESS
EVALUATION
DEVELOPMENT
GROWTH
SOLUTION
PROGRESS
MARKETING

BOH 4MA - Business Leadership: Management Fundamentals, Grade 12, University/College Preparation

Prerequisite: None

(Offered in 2016-2017; 2018-2019)

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

CANADIAN and WORLD STUDIES

CIVICS

CHV 2OH - Civics, Grade 10, Open (.5 credit)

Prerequisite: None

**Students must select CHV 2OH and GLC 2OH together
(.5 cr + .5 cr = 1 credit)**

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



CHV 2OF - Civics, Grade 10, Open (.5 credit)

(Education à la citoyenneté) (F = .5 credit in French Immersion)

Prerequisite: None

This course will be offered in 2018-2019 and 2020-2021

Students must select CHV 2OF and GLC 2OF together (.5 cr + .5 cr = 1 credit)

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

GEOGRAPHY

CGC 1DA - Geography of Canada, Grade 9, ACADEMIC

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



CGC 1DF - Geography of Canada - Immersion, Grade 9, ACADEMIC

(Offered in 2017-2018; 2019-2020)

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

CGC 1PA - Geography of Canada, Grade 9, APPLIED

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



CGF 3MA - Physical Geography: Patterns, Processes, and Interactions, Grade 11, University/College Preparation

Prerequisite: Grade 9 Geography of Canada, Academic or Applied

(Offered in 2017-2018; 2019-2020)

This course examines the major patterns of physical geography and the powerful forces that affect them. Students will investigate the dynamic nature of the earth, the evolving relationship between the planet and its people, and the factors that limit our ability to predict the changes that will occur. Students will use a wide range of geotechnologies and inquiry methods to investigate the distribution and interaction of the elements of their physical environment and to communicate their findings.

CGG 30A - Travel and Tourism: A Regional Geographic Perspective, Grade 11, Open

Prerequisite: Grade 9 Geography of Canada, Academic or Applied

(Offered in 2016-2017; 2018-2019)

This course focuses on travel and tourism as a vehicle for the study of selected world regions. Using a variety of geotechnologies and inquiry and communication methods, students will conduct and present case studies that develop their understanding of the unique characteristics of selected world regions; the environmental, cultural, economic, and political factors that influence travel and tourism; and the impact of the travel industry on communities and environments around the world.



HISTORY

CHC 2DA - Canadian History since World War I, Grade 10, ACADEMIC

Prerequisite: None

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



CHC 2DF - Canadian History since World War I, Grade 10, ACADEMIC (Histoire du Canada depuis la Première Guerre) (F = Immersion)

Prerequisite: None

(Offered in 2018-2019; 2020-2021)

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

**Note: Immersion students entering Grade 9 and 10 in 2018-2019
must select this course.**

CHC 2PA - Canadian History since World War I, Grade 10, APPLIED

Prerequisite: None

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

CHC 2LA – Canadian History, Grade 10, Locally Developed

This course focuses on the connections between the student and key people, events, and themes in Canadian history from World War I to the present. Students prepare for the Grades 11 and 12 Workplace Preparation history courses through the development and extension of historical literacy and inquiry skills.

Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships, and changes since 1914, are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspective and making connections. Students practice reading, writing, visuals, and oral literacy skills, and mathematical literacy skills to identify and communicate ideas in a variety of forms.



CHY 4UA – World History: The West and the World, Grade 12, University Preparation

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

(Offered in 2017-2018; 2019-2020)

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

CHY 4CA – World History: The West and the World, Grade 12, College Preparation

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

(Offered in 2017-2018; 2019-2020)

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



LAW

CLU 3MA – Understanding Canadian Law, Grade 11, University/College Preparation

Prerequisite: Grade 10 Canadian History in the Twentieth Century, Academic or Applied

(Offered in 2017-2018; 2019-2020)

This course explores legal Canadian law with a focus on legal issues that are relevant to people's everyday lives. Students will investigate fundamental legal concepts and processes to gain a practical understanding of Canada's legal system, including the criminal justice system. Students will use critical-thinking, inquiry, and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.



CLN 4UA – Canadian and International Law, Grade 12, University Preparation

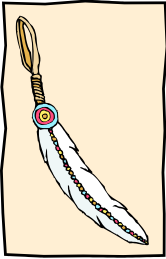
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

(Offered in 2016-2017; 2018-2019)

This course examines elements of Canadian and international law in social, political, and global contexts. Students will study the historical and philosophical sources of law and the principles and practices of international law and will learn to relate them to issues in Canadian society and the wider world. Students will use critical-thinking and communication skills to analyse legal issues, conduct independent research, and present the results of their inquiries in a variety of ways.



NATIVE STUDIES



NAC 10A - Expressing Aboriginal Cultures, Grade 9, Open

Prerequisite: None

This course examines Aboriginal cultures in Canada through an exploration of art forms - painting, sculpture, storytelling, dance, and music - created by Aboriginal artists. Students will learn to identify Aboriginal art forms and describe relationships between the art forms and Aboriginal traditions, philosophy, and culture. Students will also create their own art forms to express their understanding of Aboriginal identity, relationships, and sovereignty.



NAC 20A - Aboriginal Peoples in Canada, Grade 10, Open

Prerequisite: Grade 9 Expressing Aboriginal Cultures, Open

This course emphasizes historical and contemporary issues that affect the relationship between Aboriginal peoples and Canadian governments. Students will examine legal, political, social, and economic issues; key aspects of the Indian Act and its revisions that have an impact on the daily lives of Aboriginal persons; the different types of relationships that Aboriginal peoples have established with other nations throughout history; and the methodology of historical inquiry.



ENGLISH

ENG 1DA - English, Grade 9, ACADEMIC

This course emphasizes the analytical reading, writing, oral communication, and thinking skills that students need for success in secondary school academic programs and their daily lives. Students will study and interpret texts from contemporary and historical periods, including short stories, poems and short essays, and will investigate and create media works. An important focus will be the correct and effective use of spoken and written language.

ENG 1PA - English, Grade 9, APPLIED

This course emphasizes key reading, writing, oral communication, and thinking skills that students need for success in secondary school and their daily lives. Students will study plays, short stories, and newspaper and magazine articles, and will describe and create media works. An important focus will be the correct use of spoken and written language.

ENG 1LA - English, Grade 9

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, in the Grade 10 Locally Developed Compulsory course, and in the English Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundation literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

ENG 2DA - English, Grade 10, ACADEMIC

Prerequisite: Grade 9 English, Academic or Applied

This course extends the range of analytic, reading, writing, oral communication, and thinking skills that students need for success in secondary school academic programs. Students will study and interpret challenging texts from contemporary and historical periods, including novels, poems, plays, and opinion pieces, and will analyze and create effective media works. An important focus will be the thoughtful use of spoken and written language.



ENG 2PA - English, Grade 10, APPLIED

Prerequisite: Grade 9 English, Academic or Applied

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

ENG 2LA - English, Grade 10

Prerequisite: Grade 9 English Credit



In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, and in the English Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

ENG 3UA - English, Grade 11, University Preparation

Prerequisite: Grade 10 English, Academic

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

ENG 3CA - English, Grade 11, College Preparation

Prerequisite: Grade 10 English, Applied/Academic

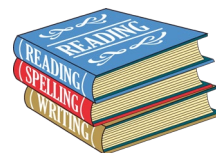
This course emphasizes the development of literacy, critical thinking, and communication skills. Students will study the content, form, and style of informational texts and literary works from Canada and other countries; write reports, correspondence, and persuasive essays; and analyze media forms, audiences,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



ENG 3EA – English, Grade 11, Workplace Preparation

Prerequisite: Grade 10 English

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



ENG 4UA – English, Grade 12, University Preparation

Prerequisite: Grade 11 English, University Preparation



Shakespeare

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

EWC 4CA/EWC 4UA – The Writer's Craft, Grade 12, University/College Preparation

Prerequisite: Grade 11 English, University/College Preparation

(Offered in 2018-2019; 2020-2021)

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

ENG 4CA – English, Grade 12, College Preparation

Prerequisite: Grade 11 English, College/University Preparation

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



ENG 4EA – English, Grade 12, Workplace Preparation

Prerequisite: Grade 11 English, Workplace Preparation

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

OLC 40A – Ontario Secondary School Literacy Course

STUDENTS MUST NOT APPLY FOR THIS COURSE.

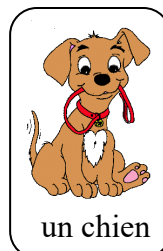
This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test. Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a literacy portfolio containing a record of their reading experiences and samples of their writing. Students who are not successful on the Ontario Secondary School Literacy Test will be required to take this course.



FRENCH AS A SECOND LANGUAGE

Students who have followed the French Immersion Program are expected to continue in this program at I.F.S.S. Core French programs are not well suited to students with a French Immersion background.

CORE FRENCH



FSF 1DF - Core French, Grade 9, ACADEMIC

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

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

FSF 1PF - Core French, Grade 9, APPLIED

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

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

FSF 2DF - Core French, Grade 10, ACADEMIC



Prerequisite: Core French, Grade 9, Academic or Applied

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

FRENCH IMMERSION

Students who have pursued either Immersion French or French First Language studies in elementary school should apply for Immersion French courses and **not** Core French courses of study.

FRENCH IMMERSION REQUIREMENTS

- Immersion students must take **10** immersion courses to obtain a French Immersion certificate, including: FIF 1DF, FIF 2DF, FIF 3UF AND FIF 4UF.
- Students planning to work towards a French Immersion certificate should consult with their guidance counsellor to work out a sound educational plan.



FIF 1DF - French Immersion, Grade 9, ACADEMIC

Prerequisite: Minimum of 3800 hours of French instruction, or equivalent

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

FIF 2DF - French Immersion, Grade 10, ACADEMIC

Prerequisite: French Immersion, Grade 9, Academic or Applied

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



FIF 3UF – French Immersion, Grade 11, University Preparation

Prerequisite: French Immersion, Grade 10, Academic

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

FIF 4UF – French Immersion, Grade 12, University Preparation

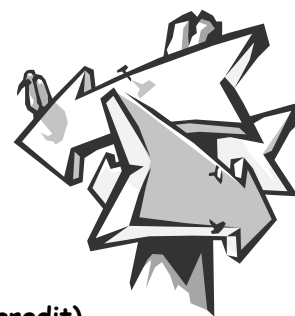
Prerequisite: French Immersion, Grade 11, University Preparation

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



GUIDANCE and CAREER EDUCATION

CAREER STUDIES



GLC 20H - Career Studies, Grade 10, OPEN (.5 credit)

Prerequisite: None

Students must select GLC 20H and CHV 20H together (.5 cr + .5 cr = 1 credit)

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

GLC 20F - Career Studies, Grade 10, OPEN (.5 credit)

(Exploration de choix de carrières) (F = .5 credit in French Immersion)

Prerequisite: None

(Offered in 2018-2019, 2020-2021)

Students must select GLC 20F and CHV 20F together (.5 cr + .5 cr = 1 credit)

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

GLE 10A - Learning Strategies, Grade 9, OPEN

Students cannot register for this course until September.

This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.



GPP 30A - Leadership and Peer Support, Grade 11, Open

Students cannot register for this course until September.

Prerequisite: Career Studies, Grade 10, Open

This course prepares students to act in leadership and peer support roles. They will design and implement a plan for contributing to their school and/or community; develop skills in communication, interpersonal relations, teamwork, and conflict management; and apply those skills in leadership and/or peer support roles - for example, as a student council member or a peer tutor. Students will examine group dynamics and learn the value of diversity within groups and communities.



HEALTH and PHYSICAL EDUCATION

PPL 10G - Healthy Active Living Education (Female), Grade 9 - Open

Prerequisite: None

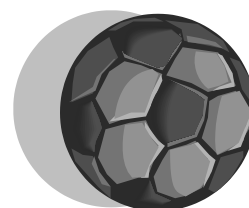
This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.



PPL 10M - Healthy Active Living Education (Male), Grade 9 - Open

Prerequisite: None

This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.



PPL 20A - Healthy Active Living Education (Co-Ed), Grade 10, Open

Prerequisite: None

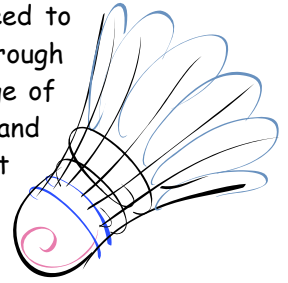
This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.



PPL 30A / PPL 40A - Healthy Active Living Education (Co-Ed)
Grade 11 or 12, Open

Prerequisite: It is highly recommended that the student have a grade 9 or 10 Physical Education Course.

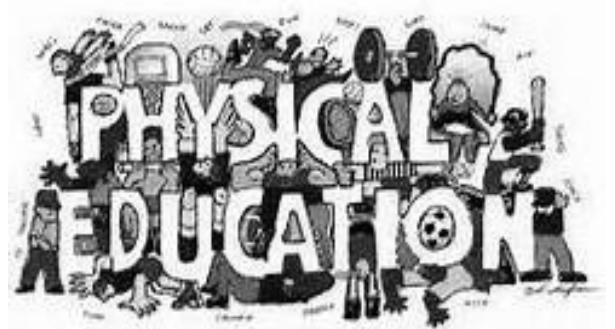
This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.



**PLF 4MA - Recreation & Healthy Active Living Leadership, Grade 12,
College/University Preparation**

Prerequisite: Any health and physical education course
(Offered in 2017-2018; 2019-2020)

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.



PSK 4UA – Introductory Kinesiology, Grade 12, University Preparation

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

(Offered in 2018-2019; 2020-2021)

To take this course, it is recommended that students have SBI 3UA or SBI 4UA.

This course focuses on the study of human movement and on the systems, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sports, and the factors that influence an individual's participation in physical activity. The course prepares students for university programs in physical education, kinesiology, recreation, and sports administration.

Please Note: This course is now a prerequisite for certain Universities where the course of study is in the realm of kinesiology, human kinetics, and/or physical education.



PAL 20A / PAL 40A - Healthy Active Living Education - Hockey Focus (Co-Ed)

Prerequisite: In order to take PAL 40A, you must first have taken PAL 20A.

(Offered in 2017-2018; 2019-2020)

PAL 30A is a course that focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that focus on the physical and technical skills found within the sport of ice hockey. Students will have the opportunity to develop personal competence in a variety of movement skills found within the game of ice hockey. Students will also participate in a variety of dry land exercises focused on improving endurance, core strength, speed and agility. Classes take place on ice, in the gym and weight room and in the classroom. The focus of the course is on hockey skill development, leadership and personal development.

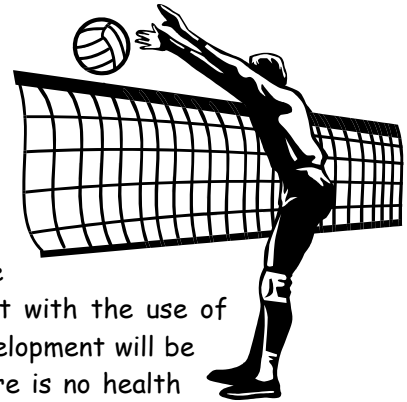


PAI 20A / PAI 40A - Healthy Active Living Education, Volleyball Focus (Co-Ed)

Prerequisite: In order to take PAI 40A, you must first have taken PAI 20A.

(Offered in 2018-2019; 2020-2021)

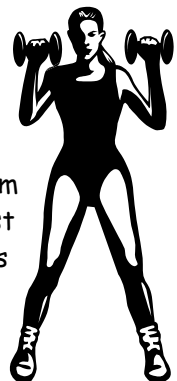
This course focuses on all aspects of the game of volleyball, with a special emphasis on individual skill development and team play. Topics will include, but not be limited to offensive and defensive individual skills, offensive and defensive team skills and systems, understanding and interpretation of rules, officiating, tournament and league organization, and off-court specialized training. Skills will be taught with the use of progressive drills for each individual and team fundamental. Skill development will be monitored by using a set of pre-tests and post-tests. Although there is no health component, students will be assessed using a variety of written and oral assessment and evaluation strategies.



PAF 30A - Healthy Active Living Education - Fitness Focus (Co-Ed)

Prerequisite: None

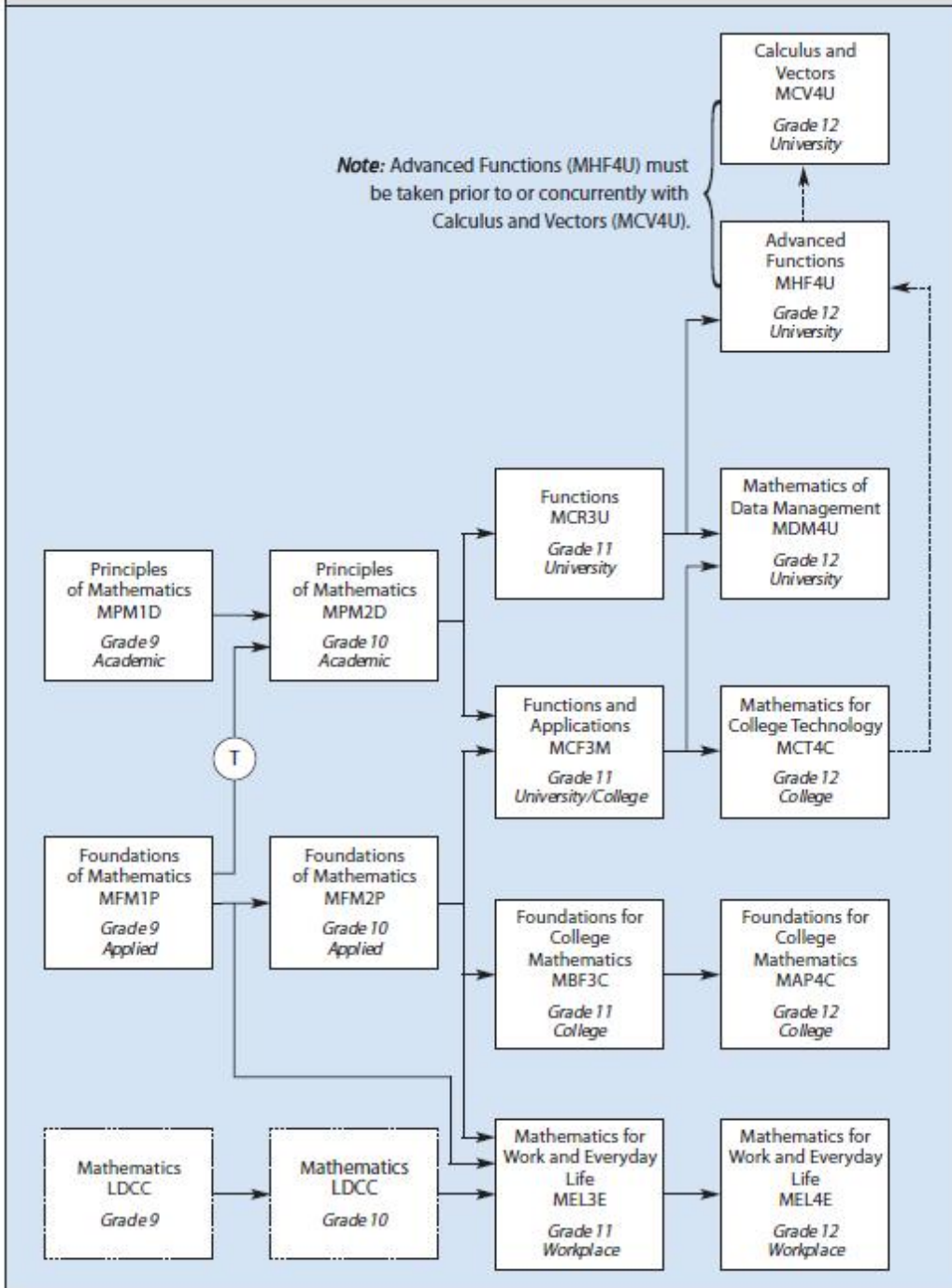
This course focuses on the promotion of lifelong healthy active living by regular participation in a weight-room environment. Students will learn proper weight-room technique and safety guidelines while improving their fitness level. Pre-test and post-test fitness assessments will be conducted to monitor student fitness development. Emphasis on progression, specificity, and overload, as well as proper nutrition, will allow participants to become fit, and will encourage fitness enjoyment after graduation.



MATHEMATICS

Prerequisite Chart for Mathematics, Grades 9–12

This chart maps out all the courses in the discipline and shows the links between courses and the possible prerequisites for them. It does not attempt to depict all possible movements from course to course.



Notes:

- T – transfer course
- LDCC – locally developed compulsory credit course (LDCC courses are not outlined in this document.)

MPM 1DA - Principles of Mathematics, Grade 9, ACADEMIC

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

MFM 1PA - Foundations of Mathematics, Grade 9, APPLIED

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

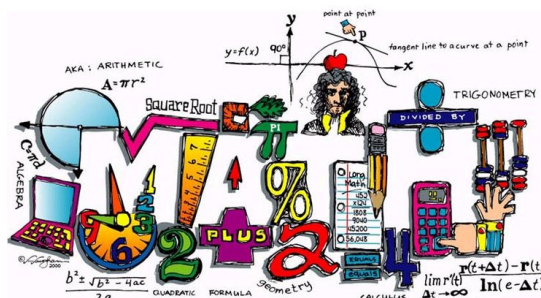
MAT 1LA - Mathematics, Grade 9 - LOCALLY DEVELOPED

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their daily lives, in the workplace and in future mathematics courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to further develop their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing and oral language through relevant and practical activities.

MPM 2DA - Principles of Mathematics, Grade 10, ACADEMIC

Prerequisite: Grade 9 Mathematics, Academic

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



MFM 2PA – Foundations of Mathematics, Grade 10, APPLIED

Prerequisite: Grade 9 Mathematics, Academic or Applied

This course enables students to consolidate their understanding of key mathematical concepts through hands-on activities and to extend their problem-solving experiences in a variety of applications. Students will solve problems involving proportional reasoning and the trigonometry of right triangles; investigate applications of piecewise linear functions; solve and apply systems of linear equations; and solve problems involving quadratic functions. The effective use of technology in learning and in solving problems will be a focus of the course.

MAT 2LA – Mathematics, Grade 10 – LOCALLY DEVELOPED

Prerequisite: Grade 9 Mathematics Credit

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

MCR 3UA – Functions, Grade 11, University Preparation

Prerequisite: Grade 10 Principles of Mathematics, Academic

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically and graphically; solve problems involving applications of functions; investigate inverse functions; and develop their abilities in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course is intended for students wishing to select any of MCV4UA, MHF4UA, or MDM4UA in grade 12 or any Grade 12 University Preparation mathematics courses.

MBF 3CA – Foundations for College Mathematics, Grade 11, College Preparation

Prerequisite: Grade 10 Mathematics, Academic or Applied

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving simple and 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 refine their mathematical skills as they solve problems and communicate their thinking. This course is intended for students who plan to select MAP4CA, Foundations for College Mathematics, Grade 12, College Preparation.

MEL 3EA – Mathematics for Everyday Life, Grade 11, Workplace Preparation

Prerequisite: Principles of Mathematics, Grade 9, Academic, or Foundations of Mathematics, Grade 9, Applied, Locally Developed or Applied Grade 10 mathematics course

This course enables students to broaden their understanding of mathematics as it is applied in important areas of day-to-day living. 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.

*** MHF 4UA – Advanced Functions, Grade 12, University Preparation**

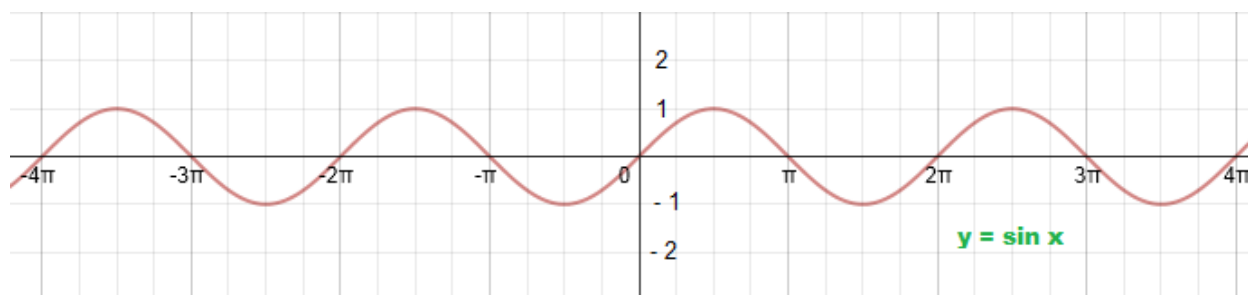
Prerequisite: Grade 11 Functions, University Preparation or Mathematics for College Technology, Grade 12, College Preparation

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

*** MCV 4UA – Calculus and Vectors, Grade 12, University Preparation**

Prerequisite/Co-requisite: Grade 12 Advanced Functions, University Preparation

This course enables students to broaden mathematical knowledge and skills related to abstract mathematical topics and to the solving of complex problems. Students will solve problems involving geometry and Cartesian vectors, and intersections of lines and planes in three-space. They will also develop an understanding of proof, using deductive, algebraic, vector, and indirect methods. Students will solve problems involving counting techniques and prove results using mathematical induction.



*** MDM 4UA - Mathematics of Data Management, Grade 12, University Prep.**

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

This course is strongly recommended for students who plan to study sciences, psychology or humanities at the post secondary level.



This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will refine their use of the mathematical processes necessary for success in senior mathematics.

MAP 4CA - Foundations for College Mathematics, Grade 12, College Prep.

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

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

MEL 4EA - Mathematics for Everyday Life, Grade 12, Workplace Preparation

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

This course enables students to broaden their understanding of mathematics as it is applied in important areas of day-to-day living. Students will use statistics in investigating questions of interest and apply principles of probability in familiar situations. They will also investigate accommodation costs and create household budgets; solve problems involving estimation and measurement; and apply concepts of geometry in the creation of designs.



*** MCT 4CA - Mathematics for College Technology, Grade 12, College Prep.**

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

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.

*** (These courses may be offered either through a classroom setting or through an E-Learning format)**

SCIENCES

SCIENCE

SNC 1DA - Science, Grade 9, ACADEMIC

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

SNC 1PA - Science, Grade 9, APPLIED

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

SNC 1LA - Science, Grade 9, - LOCALLY DEVELOPED

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking and the relationship between science, society, and the environment, to prepare students for success in everyday life, in the workplace and in the Grade 10 locally developed science course. Students explore a range of topics including science in daily life, properties of common materials, life sustaining processes in simple and complex organisms, and electrical circuits. Students have the opportunity to extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities

SNC 2DA - Science, Grade 10, ACADEMIC

Prerequisite: Grade 9 Science, Academic

This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid-base reactions; forces that affect climate and climate change; and the interaction of light and matter.

SNC 2PA - Science, Grade 10, APPLIED

Prerequisite: Grade 9 Science, Academic or Applied

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

SNC 2LA - Science, Grade 10, LOCALLY DEVELOPED

Prerequisite: Grade 9, Science, Locally Developed



This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the environmental impact of science and technology, and to prepare students for success in everyday life and in the workplace. Students explore a range of topics including science in the media, interactions of common materials, interdependence of organisms in communities, and using electrical energy.

SVN 3EA - Environmental Science, Grade 11, Workplace Preparation

Prerequisite: Science, Grade 9, Academic or Applied, or a Grade 9 or 10 locally developed compulsory credit course in science

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Students will explore a range of topics, including the impact of human activities on the environment; human health and the environment; energy conservation; resource science and management; and safety and environmental responsibility in the workplace. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy.

SVN 3MA - Environmental Science, Grade 11, University/College Preparation

Prerequisite: Grade 10 Science, Applied or Academic

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.

BIOLOGY

SBI 3UA - Biology, Grade 11, University Preparation

Prerequisite: Grade 10 Science, Academic

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.



SBI 3CA - Biology, Grade 11, College Preparation

Prerequisite: Grade 10 Science, Academic or Applied

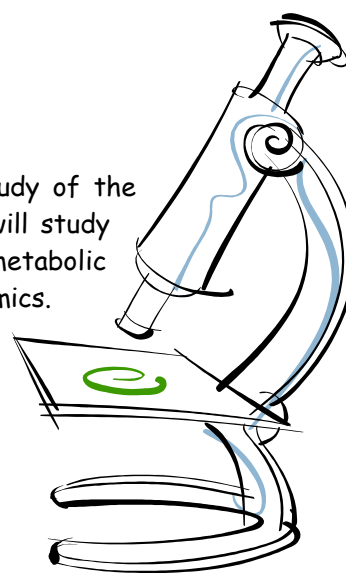
This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis 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.

SBI 4UA - Biology, Grade 12, University Preparation

Prerequisite: Grade 11 Biology, University Preparation

(Offered in 2018-2019, 2020-2021)

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.



CHEMISTRY

SCH 3UA – Chemistry, Grade 11, University Preparation

Prerequisite: Grade 10 Science, Academic

(Offered in 2019-2020, 2021-2022)

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.



SCH 4CA – Chemistry, Grade 12, College Preparation

Prerequisite: Grade 10 Science, Academic or Applied

(Offered in 2019-2020, 2021-2022)

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.

SCH 4UA – Chemistry, Grade 12, University Preparation

Prerequisite: Grade 11 Chemistry, University Preparation

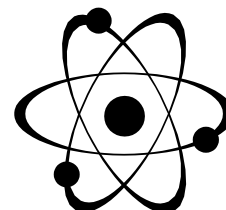
(Offered in 2019-2020, 2021-2022)

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.



PHYSICS

(These courses may be offered either through a classroom setting or through an E-Learning format)



SPH 3UA – Physics, Grade 11, University Preparation

Prerequisite: Grade 10 Science, Academic

(Offered in 2018-2019, 2020-2021)

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

SPH 4CA – Physics, Grade 12, College Preparation

Prerequisite: Science, Grade 10, Academic or Applied

(Offered in 2018-2019, 2020-2021)

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.

SPH 4UA – Physics, Grade 12, University Preparation

Prerequisite: Grade 11 Physics, University Preparation

(Offered in 2018-2019, 2020-2021)

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 related 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

HFN 20A - Food and Nutrition, Grade 10, OPEN

Prerequisite: None

This course explores the factors that affect attitudes and decisions about food, examines current issues of body image and food marketing, and is grounded in the scientific study of nutrition. Students will learn how to make informed food choices and how to prepare foods, and will investigate our Canadian food heritage and food industries, as well as global food issues. The course also introduces students to research skills related to food and nutrition.



HPW 3CA - Working with Infants and Young Children, Grade 11, Open

Prerequisite: None

(Offered in 2019-2020, 2021-2022)

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. They will also have opportunities to develop research and critical-thinking skills as they investigate and evaluate current research about early childhood education.

HPC 30A - Raising Healthy Children, Grade 11, Open

Prerequisite: None

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

Family...
where *life* begins
and *love* never ends

HPD 4CA - Working with School-Age Children and Adolescents

Grade 12, College Preparation

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

(Offered in 2018-2019; 2020-2021)

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



HSP 3CA – Introduction to Anthropology, Psychology and Sociology **Grade 11, College Preparation**

Prerequisite: None

(Offered in 2018-2019; 2020-2021)

This course introduces the theories, questions, and issues that are the major concerns of anthropology, psychology, and sociology. Students will develop an understanding of the way social scientists approach the topics they study and the research methods they employ. Students will be given opportunities to explore theories from a variety of perspectives and to become familiar with current thinking on a range of issues that have captured the interest of classical and contemporary social scientists in the three disciplines.



HSP 3UA – Introduction to Anthropology, Psychology and Sociology **Grade 11, University Preparation**

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

(Offered in 2018-2019; 2020-2021)

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

HHS 4CA – Families in Canada, Grade 12, College Preparation

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

(Offered in 2019-2020, 2021-2022)

This course enables students to develop an understanding of social science theories as they apply to individual development, the development of intimate relationships, and family and parent-child relationships. Students will explore a range of issues relating to the development of individuals and families in contemporary Canadian society as well as in other cultures and historical periods. They will develop the investigative skills required to conduct research on individuals, intimate relationships, and parent-child roles and relationships in Canada.



HHS 4UA – Families in Canada, Grade 12, University Preparation

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

(Offered in 2019-2020, 2021-2022)

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

HSB 4UA – Challenge and Change in Society, Grade 12, University Preparation

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

(Offered in 2018-2019; 2020-2021)

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

HRT 3MA – World Religions and Belief Traditions: Perspectives, Issues, and Traditions Grade 11, University/College Preparation

Prerequisite: None

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



COMPUTER STUDIES

ICS 20A - Introduction to Computer Studies, Grade 10, OPEN

Prerequisite: None

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



TECHNOLOGICAL STUDIES



STUDENTS MUST SUPPLY THEIR
OWN PAIR OF SAFETY GLASSES



EXPLORING TECHNOLOGIES

TIJ 10A - Exploring Technologies

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

TIJ 10F - Exploring Technologies - French Immersion (pending on teacher availability)

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



CONSTRUCTION TECHNOLOGY

TCJ 20A - Construction Technology, Grade 10, OPEN

Prerequisite: None

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



TCJ 3CA - Construction Engineering Technology, Grade 11, College Preparation

Prerequisite: None

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

TCJ 4CA - Construction Engineering Technology, Grade 12, College Preparation

Prerequisite: Construction Engineering Technology, Grade 11, College Preparation

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



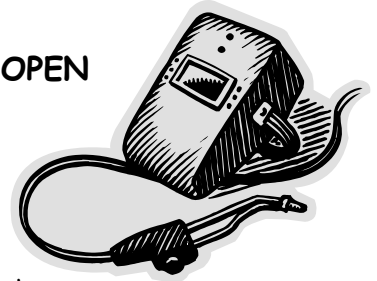
**** Students who have earned TCJ 3CA or TCJ 4CA may
take TCJ 3EA or TCJ 4EA.****

MANUFACTURING TECHNOLOGY

TMJ 20A - Manufacturing (Welding) Technology, Grade 10, OPEN

Prerequisite: None

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



TMJ 3MA - Manufacturing (Welding) Engineering Technology, Grade 11, College/University Preparation

Prerequisite: None

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



TMJ 4MA - Manufacturing (Welding) Engineering Technology, Grade 12, College/University Preparation

Prerequisite: Manufacturing Engineering Technology, Grade 11, College Preparation

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



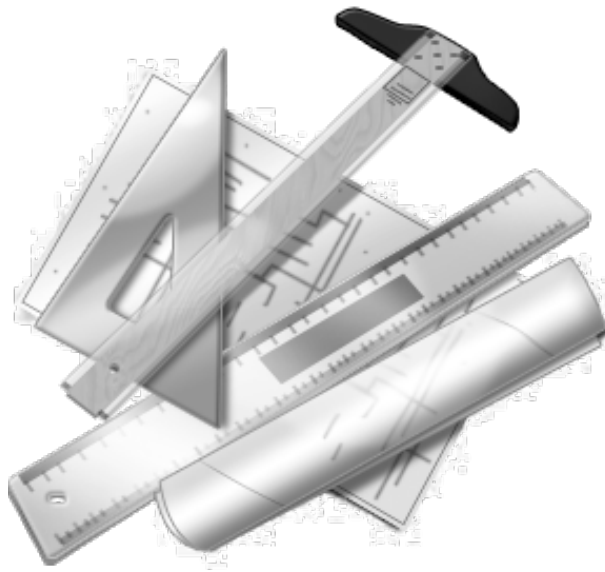
**** Students who have earned TMJ 3MA or TMJ 4MA may
take TMJ 3EA/3CA or TMJ 4EA/4CA. ****

TECHNOLOGICAL DESIGN

TDJ 20A - Technological Design, Grade 10, OPEN

Prerequisite: None

This course requires students to design and develop innovative products and services. Students will learn the following: how to identify user needs related to specified design problems; the physical properties of selected materials and their application in product design; techniques to create physical products and services; various presentation techniques; how to test and evaluate design solutions; and the implications of technology on the development of products or services. They will also become aware of design-related careers.



TRANSPORTATION TECHNOLOGY

TTJ 20A - Transportation Technology, Grade 10, OPEN

Prerequisite: None

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



TTJ 30A - Transportation Technology, Vehicle Ownership, Grade 11, Open

Prerequisite: None

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

TTJ 4CA - Transportation Technology, Grade 12, College Preparation

Prerequisite: Grade 11 Transportation Technology, College Preparation

This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; power trains; steering/control, suspension, brake, and body systems on vehicles and/or watercraft; and/or small-engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry.

**** Students who have earned TTJ 30A or TTJ 4CA may take TTJ 3CA or TTJ 4EA.****

**Any student enrolling in the
Specialist High Skills Major (SHSM) in Transportation
is able to enrol in TTA 3CA and TTA 4CA.**

**TTA 3CA –Transportation Technology, Auto Service,
Grade 11, College Preparation**

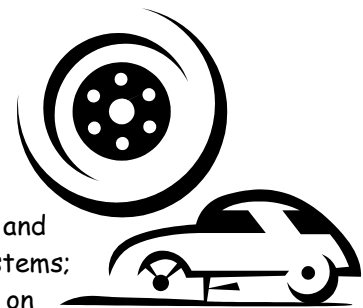
Prerequisite: TTJ 2OA is strongly recommended, but not required.



This course enables students to develop technical knowledge and skills as they study, test, service, and repair/rebuild engine, electrical, suspension, brake, and steering systems on vehicles. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry.

**TTA 4CA – Transportation Technology, Auto Service
Grade 11, College Preparation**

Prerequisite: TTA 3CA



This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; power trains; steering/control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/or small-engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry.

TTE 4YT – Automotive Service Technician 1, Grade 12, College Preparation

Prerequisite: Grade 12 Transportation

(Offered in 2019-2020)

****Students who have completed all senior Transportation
courses can still select this program.****



This 4 course program package consists of 3 dual credits from Iroquois Falls Secondary School and Northern College and one Cooperative Education credit. Student must have completed Grade 11 single or double credit Transportation. This program is designed to develop graduates with essential advanced technical, organizational, interpersonal, administrative and managerial skills required for the automotive service industry as well as providing progressive and comprehensive learning experiences on internal combustion spark ignition engines, power trains and related modern vehicle systems. Students will learn to communicate effectively, diagnose and solve problems logically, and to undertake responsible work tasks with a minimum of supervision.

WORK EXPERIENCE PROGRAMS

COOP & OYAP



WHAT IS COOPERATIVE EDUCATION?

COOPERATIVE EDUCATION is a unique form of learning which combines periods of in-school instruction with periods of on-the-job experience. It provides students with opportunities to gain practical experience in the work world while still attending school and allows students to test occupations before committing themselves to such occupations in the future.

WHAT IS OYAP?

Test drive a career in the skilled trades and *Live the Skilled Life* as a Cooperative Education student in OYAP (Ontario Youth Apprenticeship Program). OYAP is a specialized program that enables students to experience a skilled trade while still in high school. Students will be registered participants in OYAP with the Ministry of Training Colleges and Universities (MTCU). Some students may also be registered as an apprentice; they will start earning hours and / or skills sets towards their apprenticeship, and transition to the workforce with a well-established career. Students must first select Cooperative Education for the following year during the course selection process. Students will then complete an application and attend an interview. This process is similar to a real world job interview. Students must meet the minimum OYAP requirements: be at least 16 years of age and have earned 16 credits by the start of the OYAP opportunity. All students who meet the above criteria are eligible to participate in OYAP. Students unsure of their future career path, students interested in exploring a career in the trades, students in a related SHSM (Specialist High Skills Major), and / or students with an IEP will all benefit from an opportunity to *Live the Skilled Life* and explore a career in the trades via the OYAP program.

APPLICATION PROCEDURES FOR COOPERATIVE EDUCATION

These are the requirements:

- a) successful completion of the selection process;
- b) a positive attitude and a good attendance record are requirements;
- c) a linking subject to relate the Co-op course to.



INTERVIEW

All applicants for Cooperative Education courses are required to attend an interview to assess their suitability. Other factors considered are level of maturity, age of student, attendance record, teacher references, ability to communicate and an interest in the subject area.

Cooperative Education programs are available in all subject areas.

It is possible to earn French Immersion Cooperative Education credits when the language employed in the work place is French.

FOR FURTHER INFORMATION, PLEASE SEE YOUR GUIDANCE COUSELLOR.

COURSE OFFERINGS THROUGH OTHER MEANS

The following options are available to students who wish to consider alternative methods for earning credits. See your guidance counsellor for further information.

On-Line Courses (E-Learning)

Students needing a credit not offered by the school can choose from a number of on-line courses offered by a qualified DSB Ontario North East teacher. Courses delivered through e-learning must meet the same requirements as courses delivered in a traditional classroom. These requirements relate to curriculum evaluation and assessment; recording of student marks; and other information. Students should make sure to be registered by the first week of the semester. Students can register as early as June for all the courses in the following school year, and need to be starting the course the first week of the semester. A number of on-line courses are available to students each semester. See your guidance counselor for the current list of e-learning courses being offered by DSB Ontario North East or visit: <http://www.dsb1.ca/>

Summer School

Summer school courses may be available for students who wish to retake courses they have not successfully completed, or to improve achievement in a course they have already taken. A limited number of additional courses may be offered. Details about summer school will be available in May.

Credit Recovery

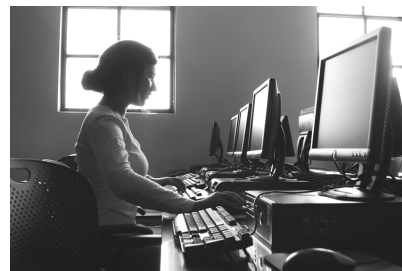
Credit recovery helps students recapture a lost credit by receiving more individual instruction and strategies focused on only the course expectations that were not successfully achieved. It is a key intervention, particularly at the Grade 9 and 10 levels. Research shows students who fail one credit early in high school are at significantly greater risk of dropping out. Students are selected for credit recovery based on recommendations from their teachers and the credit recovery team.

Correspondence Courses / I.L.C Courses

I.L.C. = Independent Learning Course (correspondence course).

I.L.C.'s are given to students only in **special circumstances**.

- a graduating student who needs an extra credit to graduate
- a graduating student requiring a particular course, which is not available in the school but is required for post secondary goals
- an adult learner.



I.L.C.'s are comprised of 4 units (booklets) each of 5 lessons for a total of 20 lessons. There is a midterm exam that is to be completed after 10 lessons are submitted. The final exam is written when the student has completed all 20 lessons. The course is evaluated similar to all Ontario courses.

E-LEARNING COURSES

These are some of the courses tentatively offered through E-Learning. These courses may be offered at the beginning of each semester but may be subject to change.

See your Guidance Counsellor now to register for these E-Learning courses for September.

Semester 1	Semester 2
BAF 3M - Gr. 11 Accounting	CHY 4U - Gr. 12 World History
BAT 4M - Gr. 12 Accounting	EWC 4C/4U - Gr. 12 Writer's Craft
SNC 4M - Gr. 12 Health Sciences	MCV 4U - Gr. 12 Calculus and Vectors (Fixed Period 1)
MHF 4U - Gr. 12 Advanced Functions (Fixed Period 1)	PSK 4U - Gr. 12 Intro Kinesiology
CGW 4U - Gr. 12 Geography	PPZ 3C - Gr. 11 Health for Life
CLU 3M - Gr. 11 Law	HHG 4M - Gr. 12 Human Development throughout the Lifespan
CLN 4U - Gr. 12 Law	BBB 4M - International Business Fundamentals
MDM 4U - Gr. 12 Data Management	SCH 4U - Grade 12 University Chemistry
IDC 4U - Interdisciplinary Studies (peer tutoring)	



